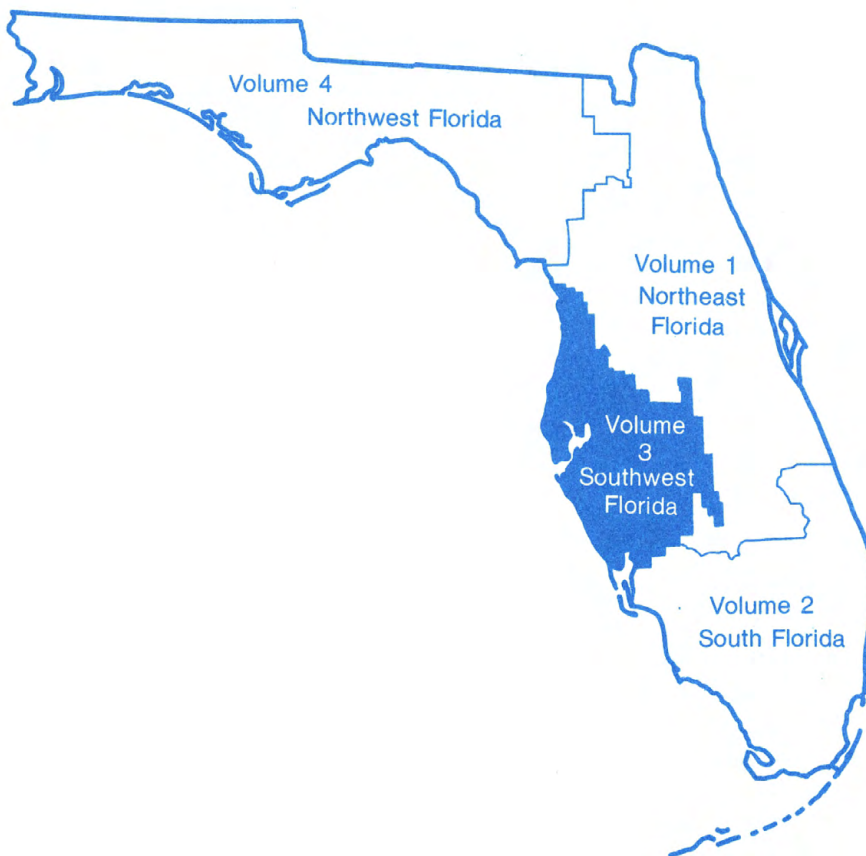
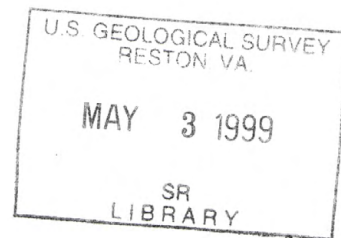


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Water Resources Data Florida Water Year 1998

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Water-Data Report FL-98-3A



CALENDAR FOR WATER YEAR 1998

1997

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1998

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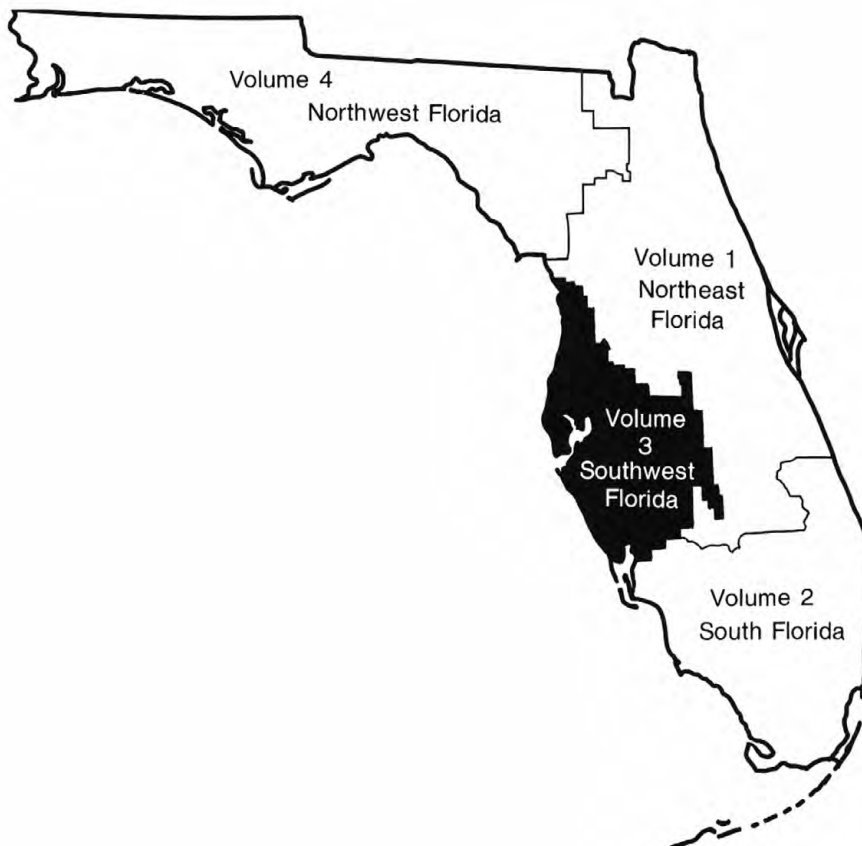
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Water Resources Data Florida Water Year 1998

Volume 3A. Southwest Florida Surface Water

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

Water-Data Report FL-98-3A



UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U. S. GEOLOGICAL SURVEY

Charles G. Groat, Director

Prepared in cooperation with the
State of Florida
and with other agencies as listed
under cooperation

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PREFACE

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

Volume 1. Northeast Florida

Volume 2. South Florida

Volume 3. Southwest Florida

Volume 4. Northwest Florida

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data. This report was prepared for publication by J.M. Todd 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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13. ABSTRACT (Maximum 200 words) Water resources data for the 1998 water year in Florida consist of continuous or daily discharges for 307 streams, periodic discharge for 30 streams, continuous daily stage for 89 streams, periodic stage for 4 streams, peak stage and discharge for 38 streams, continuous or daily elevations for 27 lakes, periodic elevations for 51 lakes; continuous ground-water levels for 439 wells, periodic ground-water levels for 1,958 wells, and quality-of-water data for 118 surface-water sites and 267 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 3B contains records for continuous ground-water elevations for 149 wells; periodic ground-water elevations at 40 wells; miscellaneous ground-water elevations at 651 wells; and water quality at 51 ground-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.			
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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

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

[Letters after station name designate type of data collected: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (k) conductance, (t) water temperature, (s) sediment, (t) tissue, (e) elevation, gage heights, or contents.]

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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. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

{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) (e)	02293986	160	1947-71 1972-77
Lake Lulu Outlet at Eloise, FL. (d) (e)	02294068	23	1946-72 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) (e)	02297733	6.64	1981 1973-81
Cow Slough near Arcadia, FL. (e)	02297875	14.4	1972-78

WATER RESOURCES DATA FOR FLORIDA, 1998

Volume 3A: Southwest Florida Surface Water

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
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
Whitaker Bayou at Sarasota, FL. (d)	02299864	7.0	1975-77
Manatee River near Bradenton, FL. (d)	02300000	87.1	1939-66

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

Station name	Station number	Drainage area (mi ²)	Period of Record
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 Keyville, 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
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

WATER RESOURCES DATA FOR FLORIDA, 1998

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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 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
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

WATER RESOURCES DATA FOR FLORIDA, 1998
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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
Crystal River near Crystal River, FL. (d)	02310750	---	1964-77
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) (e)	02307243	10	1946-56 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

WATER RESOURCES DATA FOR FLORIDA, 1998
Volume 3A: Southwest Florida Surface Water

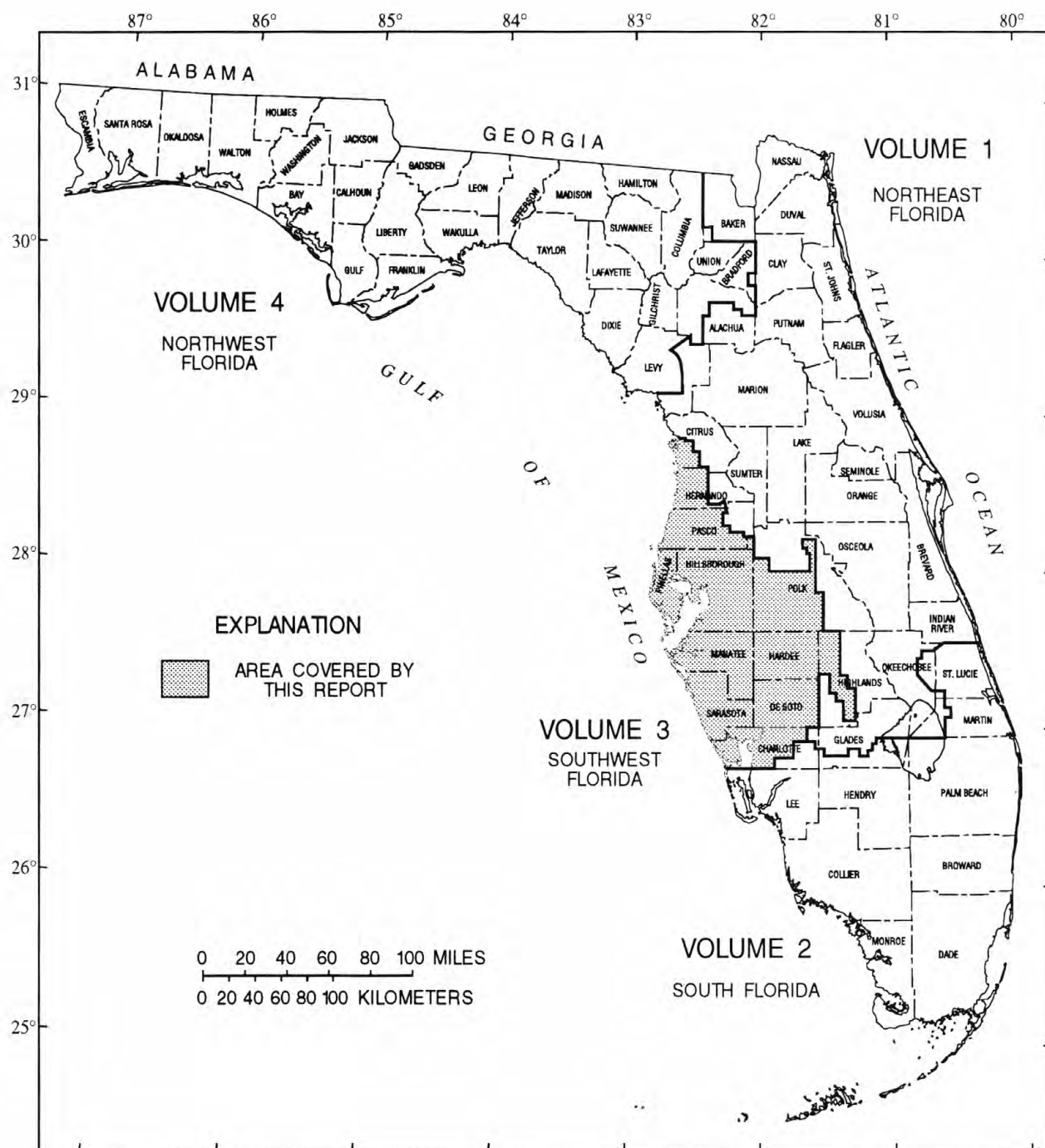


Figure 1.--Geographic area covered by this report.

WATER RESOURCES DATA FOR FLORIDA, 1998
Volume 3A: Southwest Florida Surface Water

1

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State 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, and water levels and water quality of ground-water wells. Volume 3A contains records for continuous daily discharge at 75 gaging stations; periodic discharge for 16 streams; periodic stage at 4 stream sites; continuous daily stage at 21 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 60 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 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 Distribution Branch, Text Products Section, U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25425, 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-98-3A." 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 Environmental Action Commission
Southwest Florida Water Management District
Tampa Bay Water
County of Hillsborough
County of Manatee
Peace River/Manasota Regional Water Supply Authority

County of Pinellas
County of Sarasota
City of North Port
City of Sarasota
City of Tampa

WATER RESOURCES DATA FOR FLORIDA, 1998**Volume 3A: Southwest Florida Surface Water****SUMMARY OF HYDROLOGIC CONDITIONS**

During the 1998 water year, rainfall at 11 National Oceanic and Atmospheric Administration (NOAA) stations in west-central Florida (fig. 2) ranged from 56.17 inches at Punta Gorda in Charlotte County (site 22) to 80.94 inches at Plant City in Hillsborough County (site 16). The 1998 water year total rainfall was higher at all eleven long-term stations than the 1961-90 normal. Total rainfall at the 11 stations ranged from 3.99 inches above normal at Brooksville in Hernando County (site 13) to 30.23 inches above normal at Plant City (site 16).

Monthly mean discharge for the Anclote River near Elfers (fig. 2, site 1) is shown in figure 3. The 1998 water year monthly mean discharges at this site were above median flow through May, decreased below the median through August, then increased above the median through September. The 1998 water year annual mean discharge, 211 ft³/s, was 320 percent of the mean for the period of record, 66.0 ft³/s.

At Hillsborough River near Zephyrhills (fig. 2, site 2), monthly mean discharge was above the median flow through May, decreased below the median discharge through August, then increased above the median through September (fig. 4). The 1998 water year annual mean discharge, 631 ft³/s, was 253 percent of the mean for the period of record, 249 ft³/s.

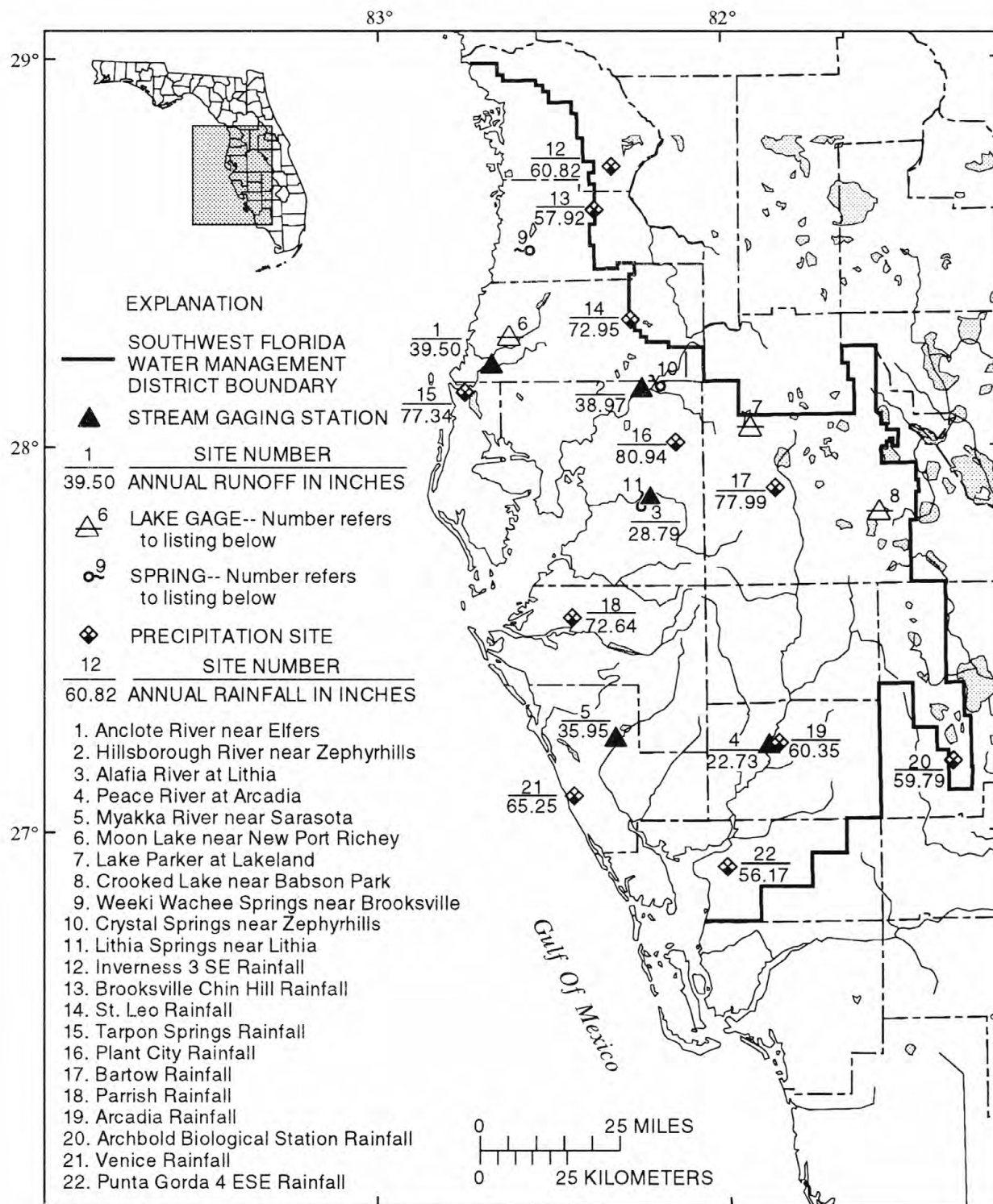
Monthly mean discharge at Alafia River at Lithia (fig. 2, site 3) was above the median discharge through April, decreased below the median through August, then increased above the median through September. The 1998 water year annual mean discharge, 710 ft³/s, was 207 percent of the mean for the period of record, 342 ft³/s.

Monthly mean discharge at Peace River at Arcadia (fig. 2, site 4) was above the median discharge through April, then decreased below the median for the remainder of the water year (fig. 6). The 1998 water year annual mean discharge, 2,289 ft³/s, was 211 percent of the mean for the period of record, 1,085 ft³/s.

At Myakka River near Sarasota (fig. 2, site 5), monthly mean discharge remained above the median discharge through April, then decreased below the median for the remainder of the water year (fig. 7). The 1998 water year annual mean discharge, 606 ft³/s, was 239 percent of the mean for the period of record, 254 ft³/s.

Several large springs discharge into streams along the Gulf of Mexico in Citrus and Hernando Counties. 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. Seven measurements made during the 1998 water year ranged from 152 ft³/s on November 6 to 233 ft³/s on February 26. The average of the 508 measurements made through the 1998 water year is 173 ft³/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 437 measurements made through the 1998 water year is 55.6 ft³/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 54 ft³/s on August 24 to 61 ft³/s on April 9, 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 1998 water year ranged from 52.4 ft³/s on June 3 to 72.3 ft³/s on April 29. The average of 220 measurements made since 1934 is 44.6 ft³/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 below the median lake stage through mid-December, then increased above the median and remained there for the remainder of the water year. The 1998 water year annual mean stage, 39.02 ft above sea level, was higher than the mean for the period of record, 38.43 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 the latter part of May through early September. The 1998 annual mean stage, 130.44 ft above sea level, was above the mean for the period of record, 130.01 ft above sea level. Monthly mean lake stage in Crooked Lake near Babson Park (fig. 10) was below the median through mid-December, then increased above the median for the remainder of the water year. The 1998 annual mean stage, 117.43 ft above sea level, was above the mean for the period of record, 115.73 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.

WATER RESOURCES DATA FOR FLORIDA, 1998
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ANCLOTE RIVER NEAR ELFERS, FLORIDA

STATION 02310000

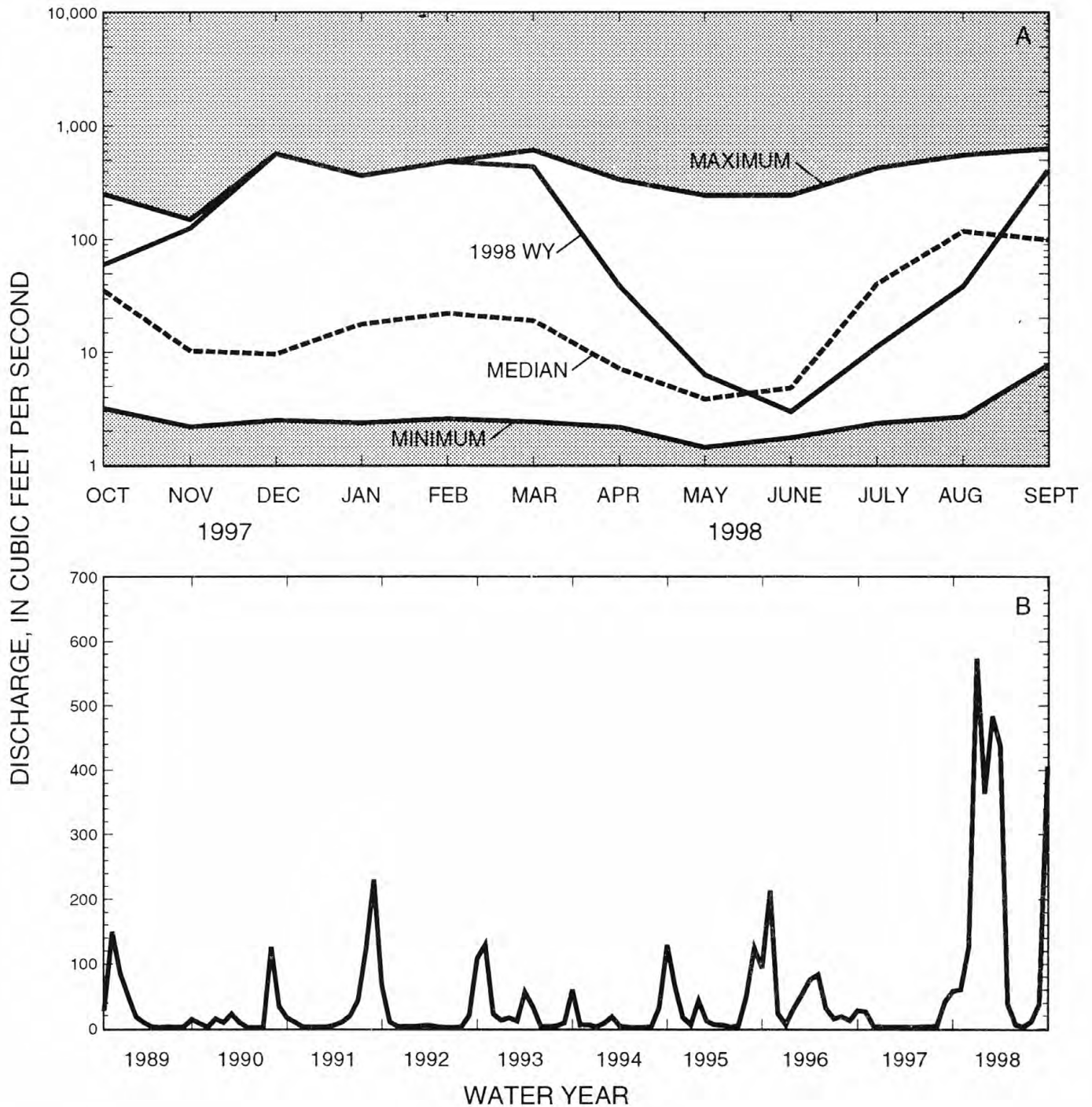


Figure 3.--Ancloste River near Elfers (A) 1998 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1989-98.

HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FLORIDA

STATION 02303000

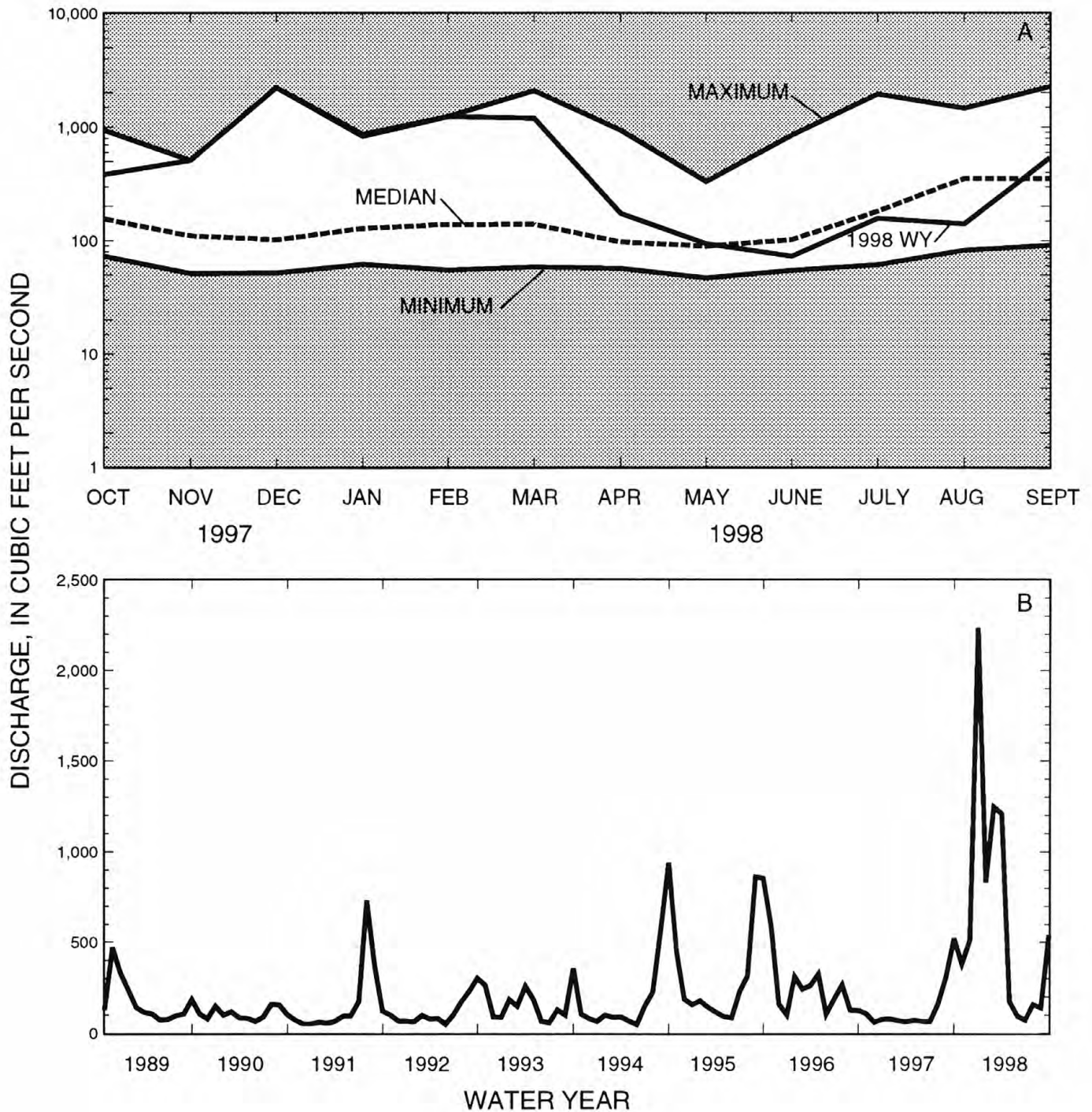


Figure 4.--Hillsborough River near Zephyrhills (A) 1998 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1989-98.

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ALAFIA RIVER AT LITHIA, FLORIDA

STATION 02301500

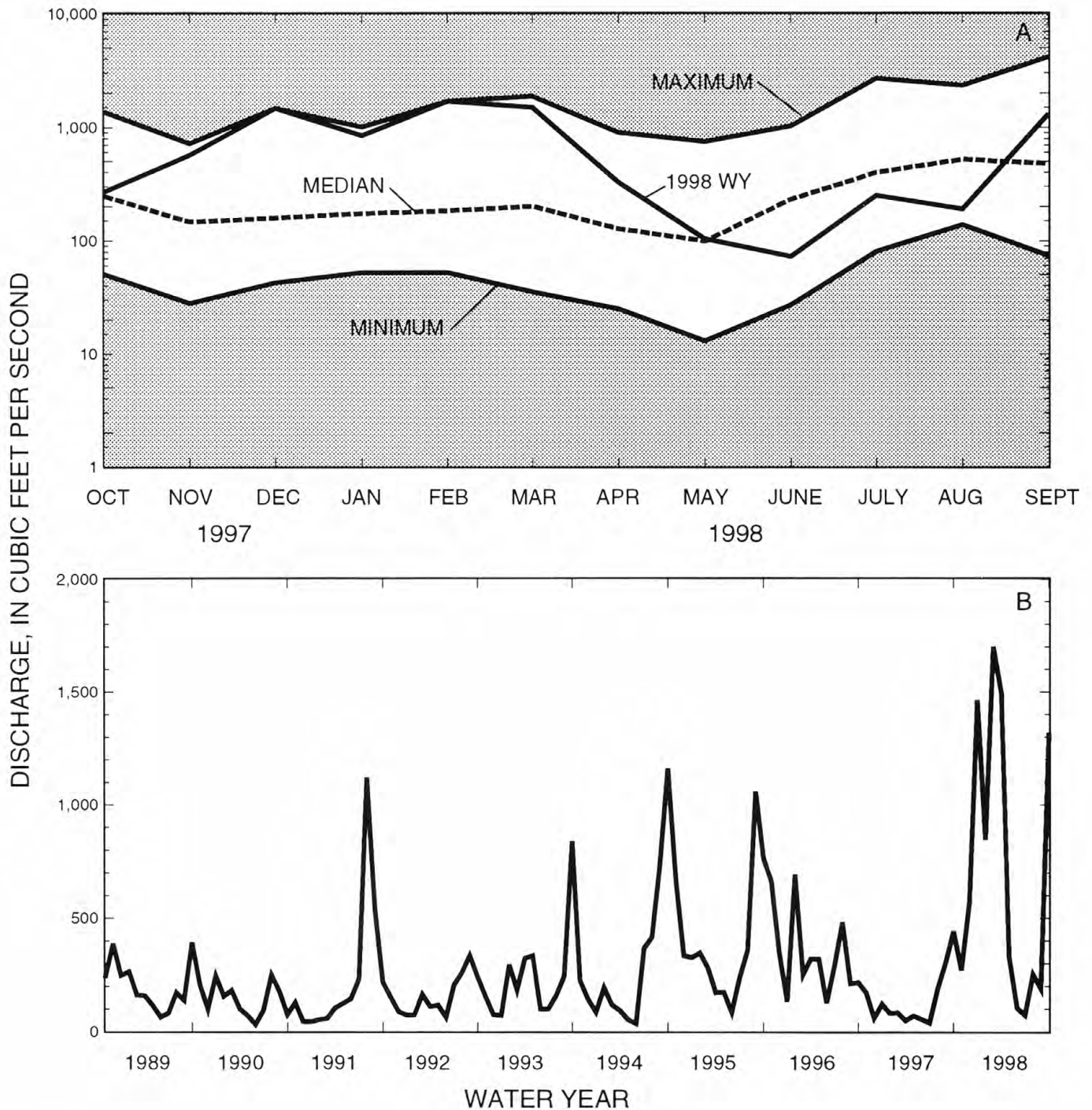


Figure 5.--Alafia River at Lithia (A) 1998 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1989-98.

PEACE RIVER AT ARCADIA, FLORIDA

STATION 02296750

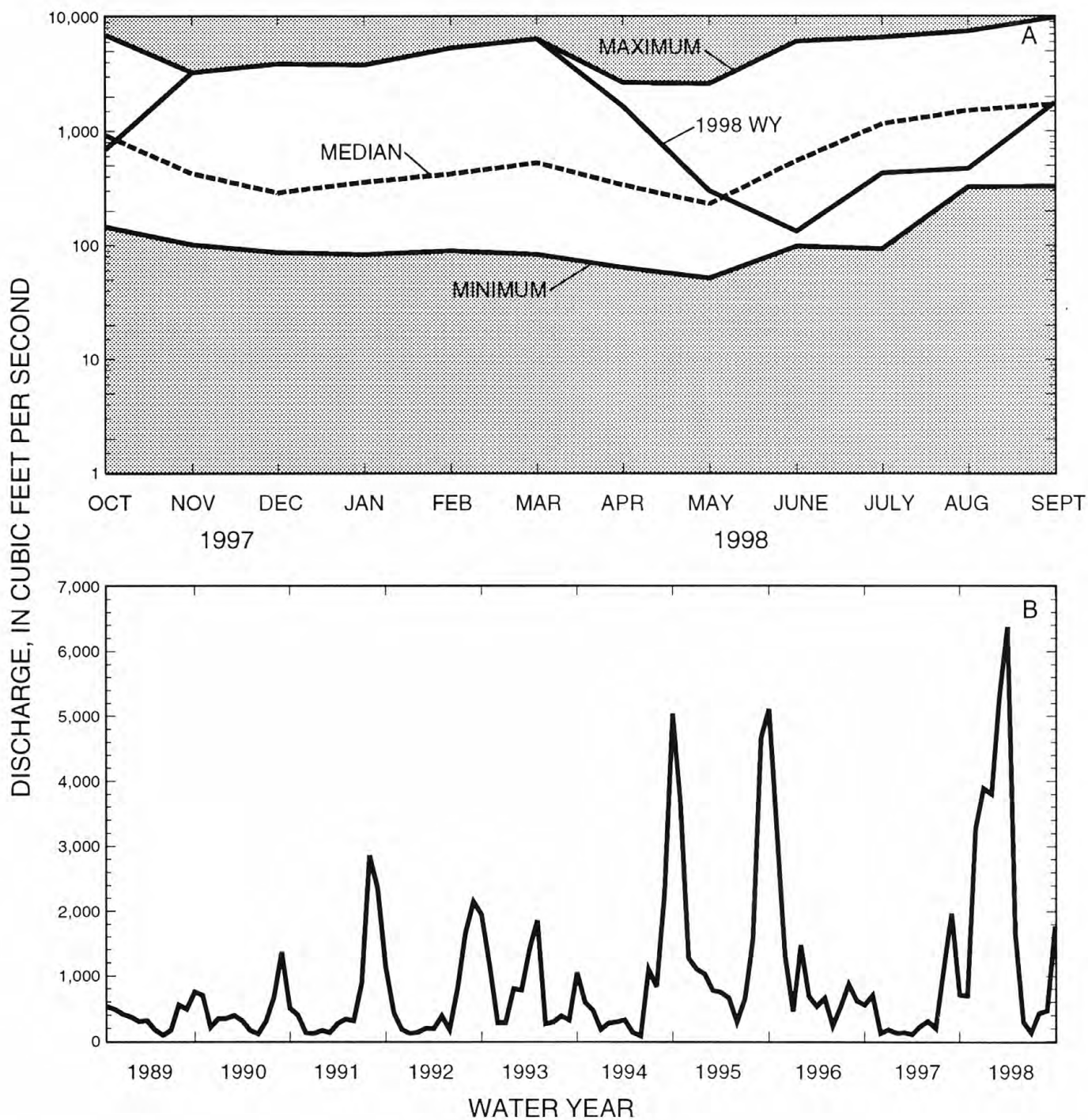


Figure 6.--Peace River at Arcadia (A) 1998 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1989-98.

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MYAKKA RIVER NEAR SARASOTA, FLORIDA

STATION 02298830

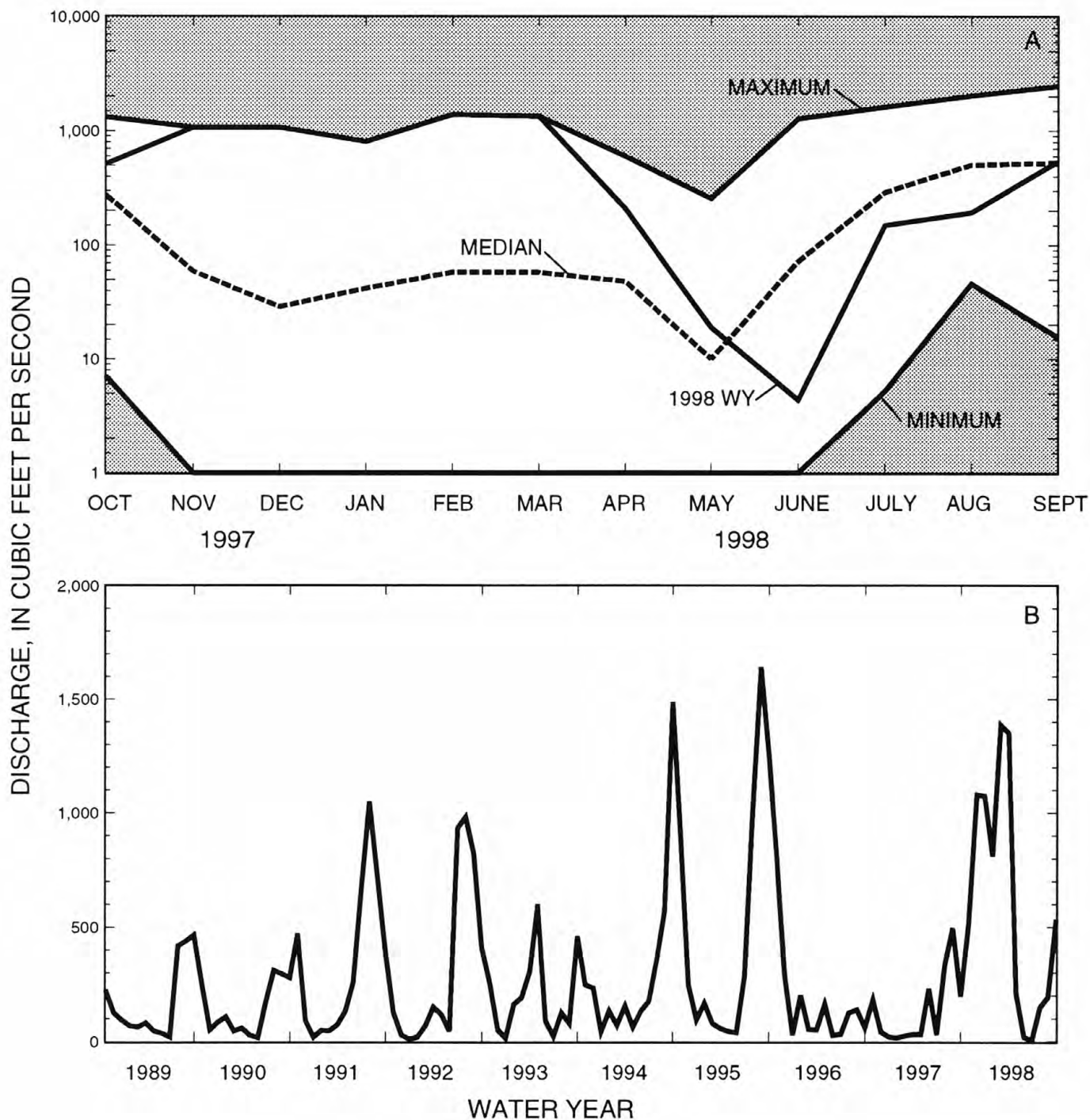


Figure 7.--Myakka River near Sarasota (A) 1998 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1989-98.

MOON LAKE NEAR NEW PORT RICHEY, FLORIDA

STATION 02310290

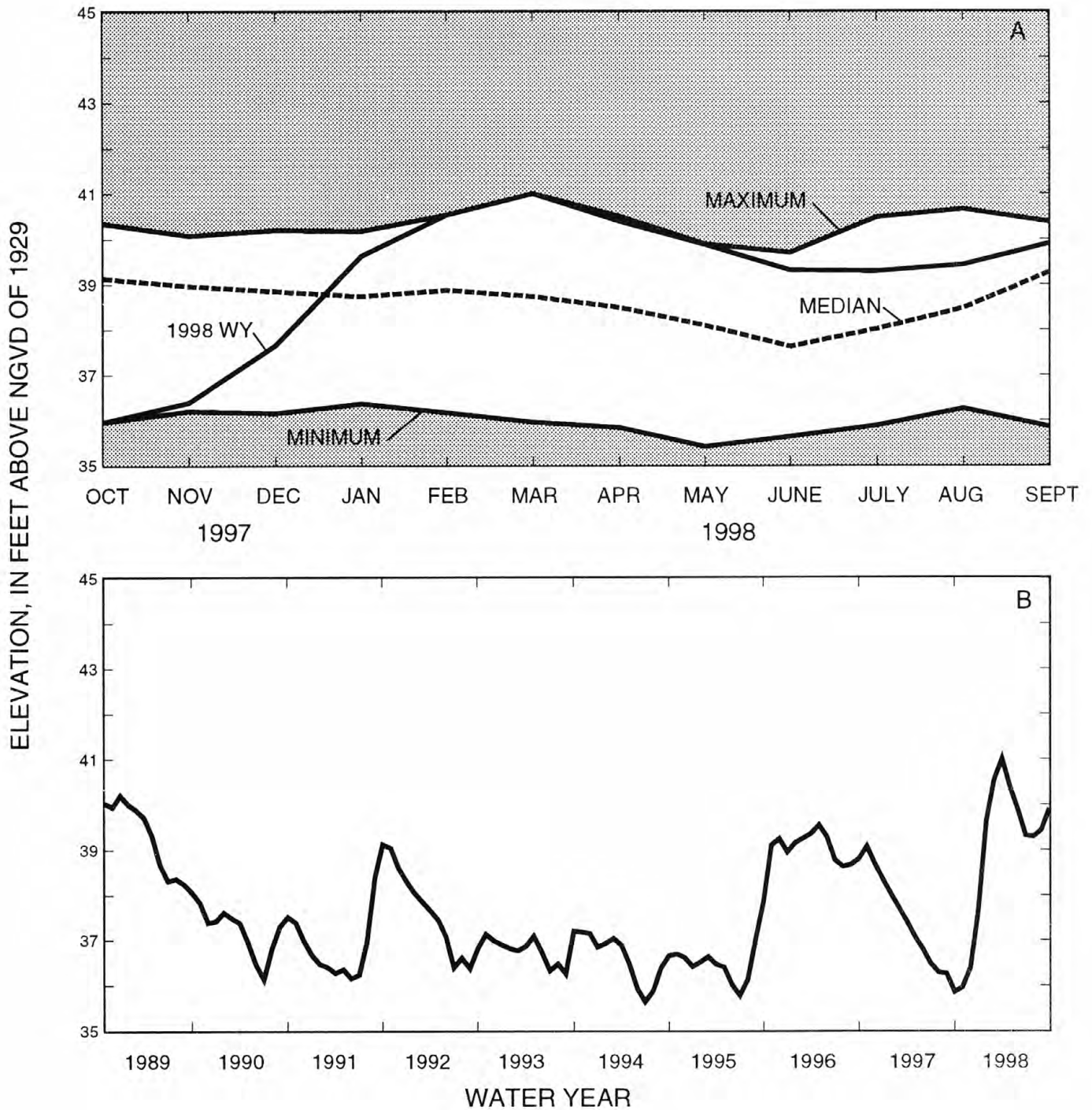


Figure 8.--Moon Lake near New Port Richey (A) 1998 monthly mean stage compared to the maximum, median, and minimum monthly mean stage for the period of record, and (B) the monthly mean stage for the period 1989-98.

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LAKE PARKER AT LAKELAND, FLORIDA

STATION 02294259

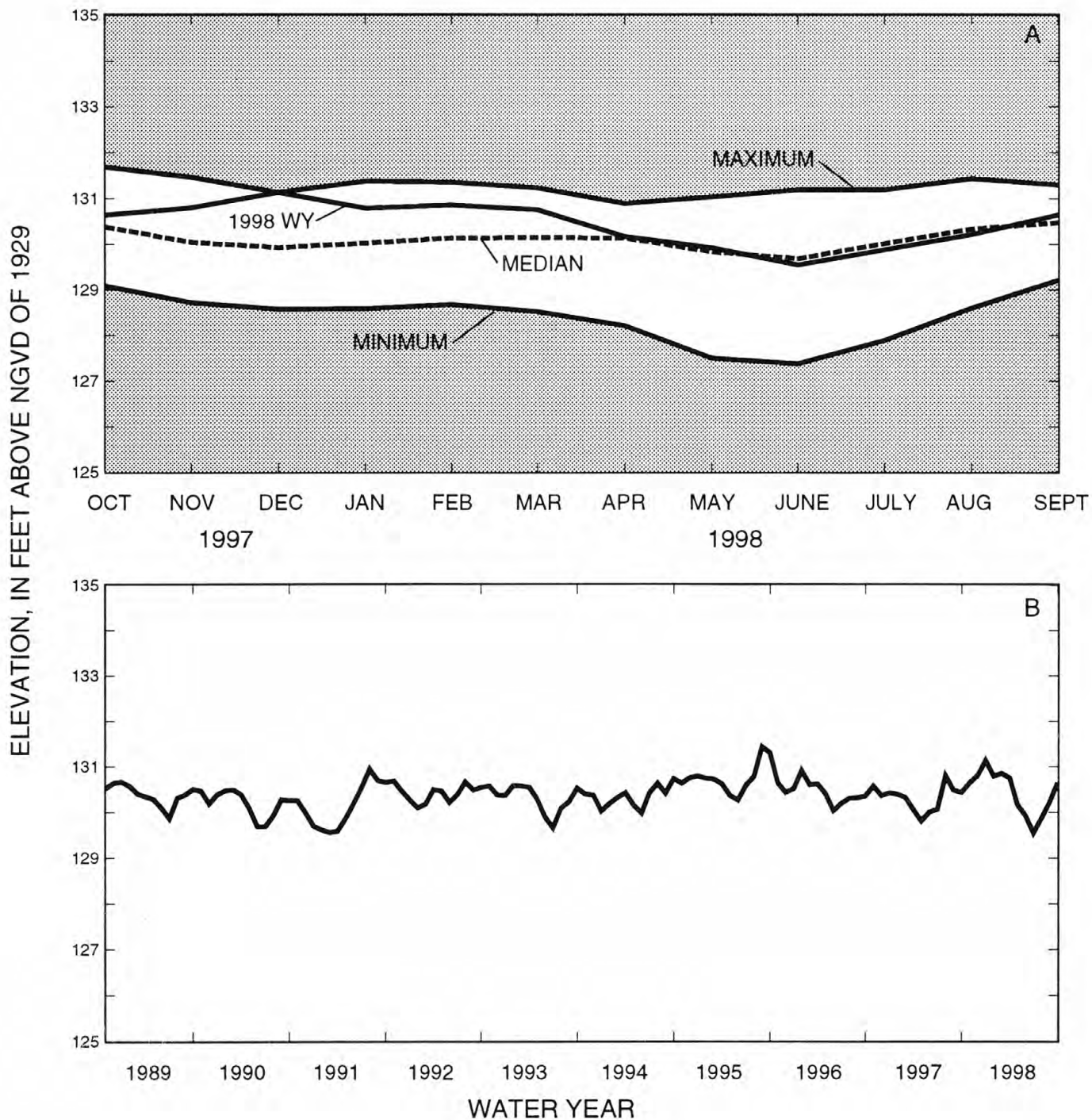


Figure 9.--Lake Parker at Lakeland (A) 1998 monthly mean stage compared to the maximum, median, and minimum monthly mean stage for the period of record, and (B) the monthly mean stage for the period 1989-98.

CROOKED LAKE NEAR BABSON PARK, FLORIDA

STATION 02269200

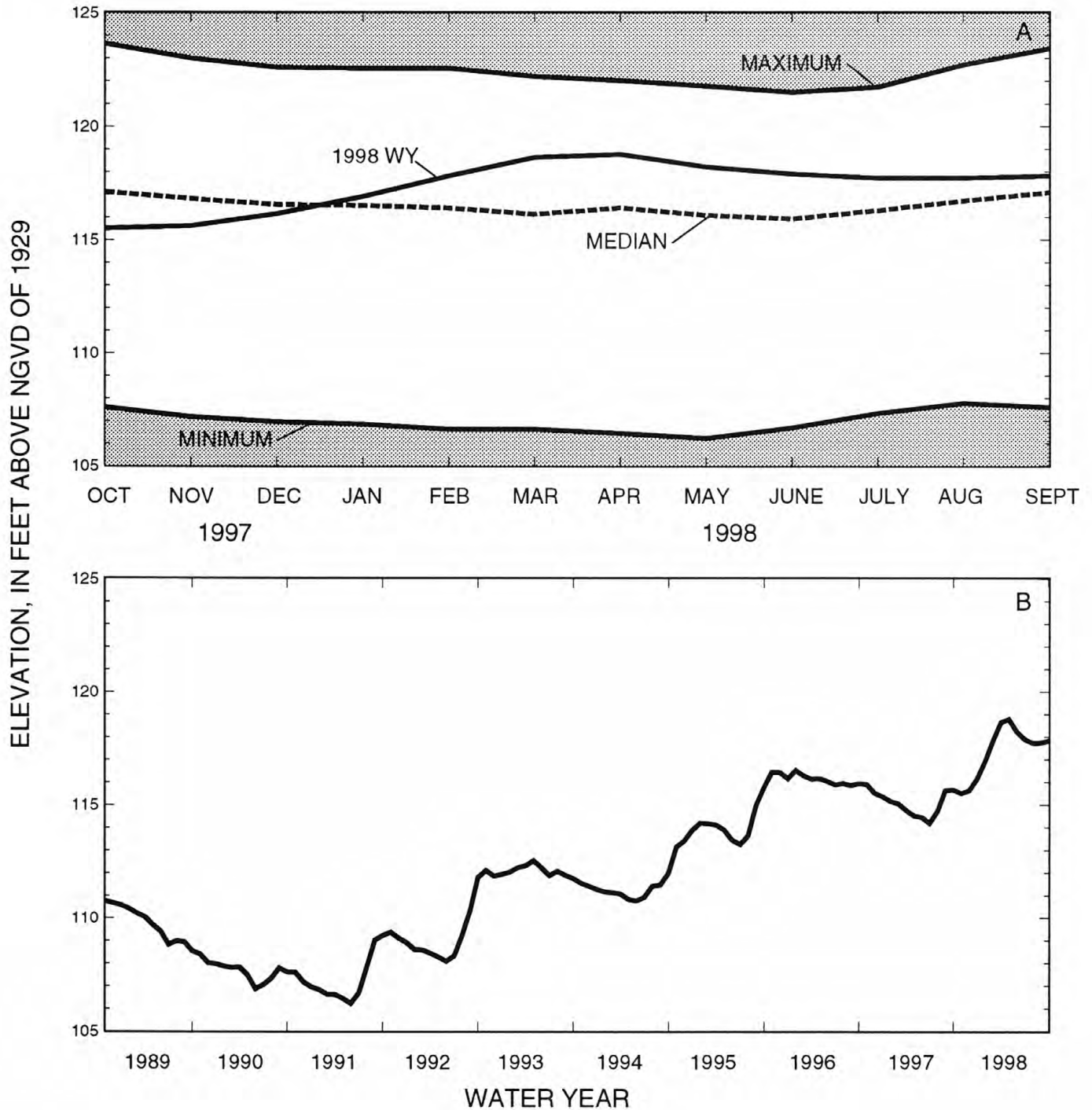


Figure 10.--Crooked Lake near Babson Park (A) 1998 monthly mean stage compared to the maximum, median, and minimum monthly mean stage for the period of record, and (B) the monthly mean stage for the period 1989-98.

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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 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ 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 SO₂ and NO_x scheduled to begin in 2000.

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

<http://nadp.nrel.colostate.edu/NADP>

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 53 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

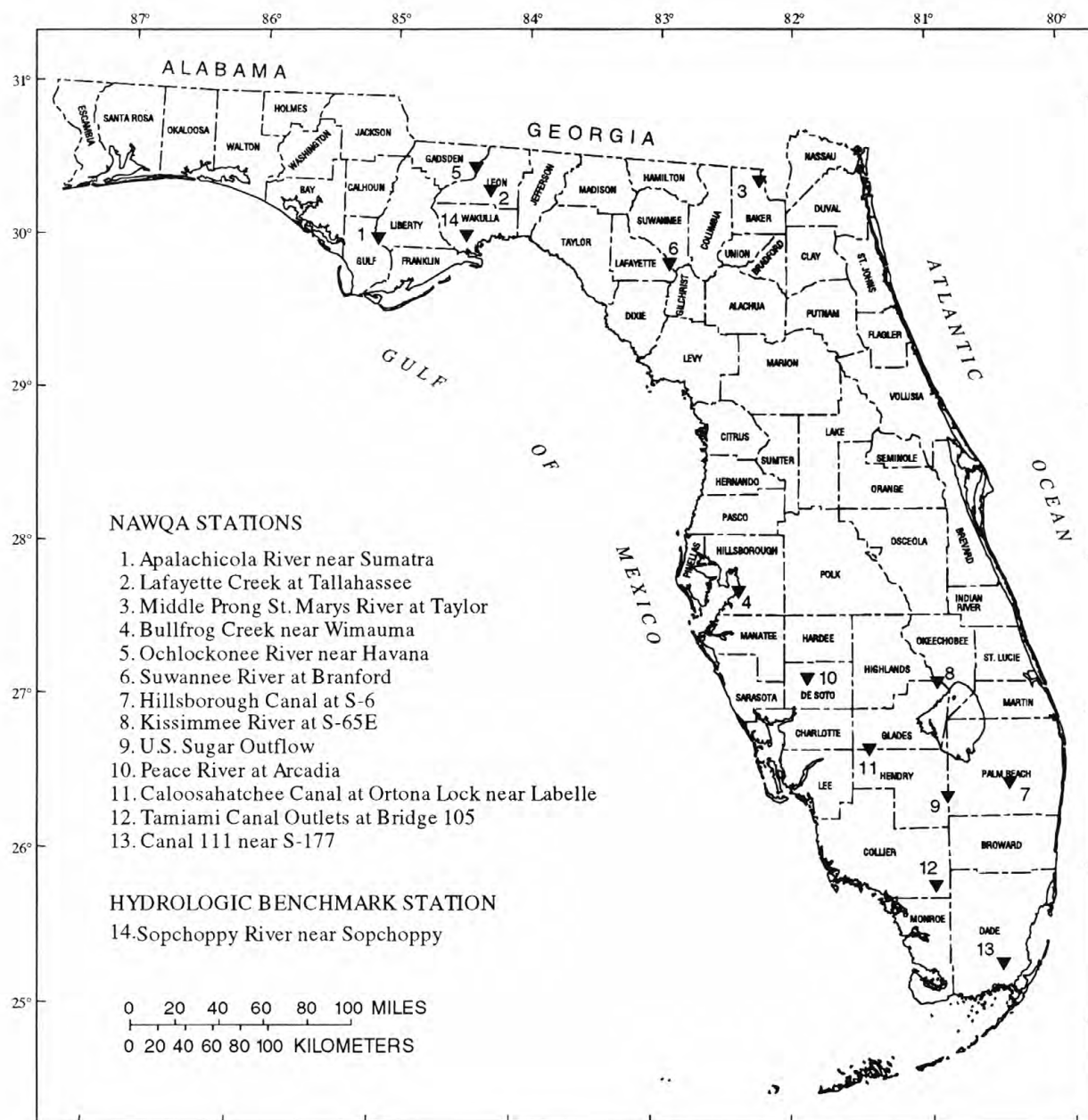


Figure 11.--NASQAN and NAWQA stations in the State of Florida.

WATER RESOURCES DATA FOR FLORIDA, 1998
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EXPLANATION OF THE RECORDS

The surface-water records published in this report are for the 1998 water year that began October 1, 1997, and ended September 30, 1998. 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, 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 indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation 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-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-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.)

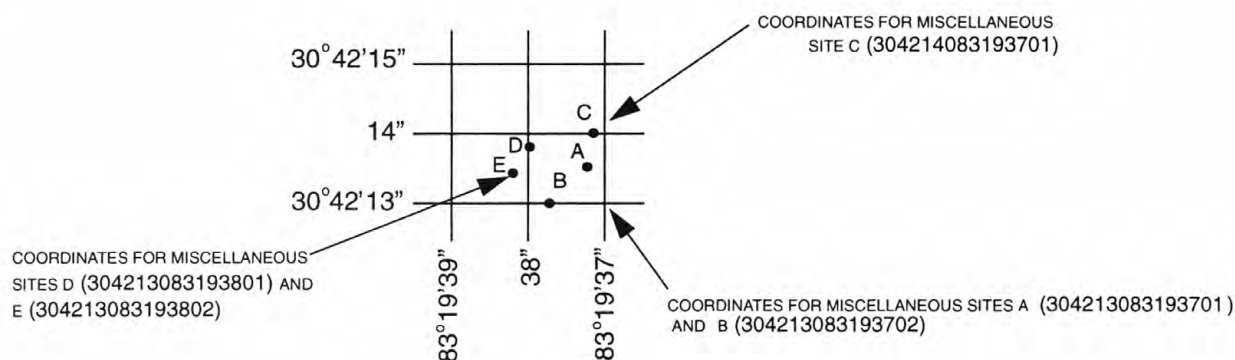


Figure 12.--System for numbering miscellaneous sites (latitude and longitude)

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 analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes 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 by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean 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 daily mean 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.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

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 daily discharge or contents. This happens when the recorder 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; 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 locations 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.

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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 that 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 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 for the year or for the designated period.

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

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous 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.

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

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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 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/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 punched at short intervals on a paper tape. 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

In obtaining water-quality data, a major concern needs to be assuring that the data obtained 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; and Book 5, Chapters A1, A3, and A4. 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. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. 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 digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (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. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

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

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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 Tampa office. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado and 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. These methods are consistent with ASTM standards and generally follow ISO standards.

In March 1989 the National Water-Quality Laboratory in Arvada, 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 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 temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

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

COOPERATION.--Records provided by a cooperating organization or obtained for the 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 monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual 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:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to 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)
&	Biological organism estimated as dominant
V	Analyte was detected in both the environmental sample and the associated blanks

NOTE: In March 1989 the National Water-Quality Laboratory 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 1982 and 1989. Sulfate values in this report have not been corrected for this bias.

Changes in National Trends Network Procedures

NOTE: 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 Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

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 on magnetic tape or 3-1/2 inch floppy disk. 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.

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 or about 326,000 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 measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

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.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

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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. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod shaped bacteria which 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 also 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 which are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms which 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.

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

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 micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the 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. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square mile (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 values are 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. The 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.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cubic-foot-per-second day 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, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,445 cubic meters.

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 natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

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

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

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.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, 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 salt water.

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

Cubic-feet-per-second per square mile [$(\text{ft}^3/\text{s})/\text{mi}^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more specifically, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

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

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

Dissolved refers to that material in a representative water sample which passes through a 0.45 um 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-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 the 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 0.492 to reflect the change.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. 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 surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary 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 particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO₃).

Hydrologic Bench-Mark Network is a network of 57 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 the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

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) 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 liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute 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.

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 both 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.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

The National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

The National Water-Quality Assessment (NAWQA) Program is a long-term U.S. Geological Survey effort to determine the status and trends of water quality in a large, representative part of the Nation's surface- and ground-water resources, and to provide scientific understanding of primary natural and human influences on the quality of these resources.

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 (m²), 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.

Parameter Code is a 5-digit number used in the U.S. Geological Survey's data system, National Water Information System (NWIS), to uniquely identify a specific constituent. The codes used in NWIS are the same as those used in the U.S. Environmental Protection Agency's data system, STORET.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) 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:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or 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 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, mass, or volume.

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.

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

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.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water current. 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 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.

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 consumer 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.

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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg C}/(\text{m}^3 \cdot \text{time})$] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radio-active 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.

Milligrams of oxygen per area or volume per unit time [$\text{mgO}_2/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mgO}_2/(\text{m}^3 \cdot \text{time})$] for phytoplankton are the units for expressing primary productivity. They define 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.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

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.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

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

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it 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 the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

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

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).

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a 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 general term that refers to material in suspension. It is not synonymous with either 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, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow ($7 Q_{10}$) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

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.

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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 about 65 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.

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

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.

Natural substrate refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, 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.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is the part (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 water-suspended sediment sample that is retained on a 0.45 um 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 water-suspended sediment sample that is retained on a 0.45 um membrane filter. 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 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.

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
<u>Genus</u>	Hexagenia
<u>Species</u>	Hexagenia limbata

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

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

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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 indicates 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) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water- 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 water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-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.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

Water year in 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, 1998, is called the "1998 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.

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-A10. *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 soluble 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. Various pages.
- 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

WATER RESOURCES DATA FOR FLORIDA, 1998
Volume 3A: Southwest Florida Surface Water

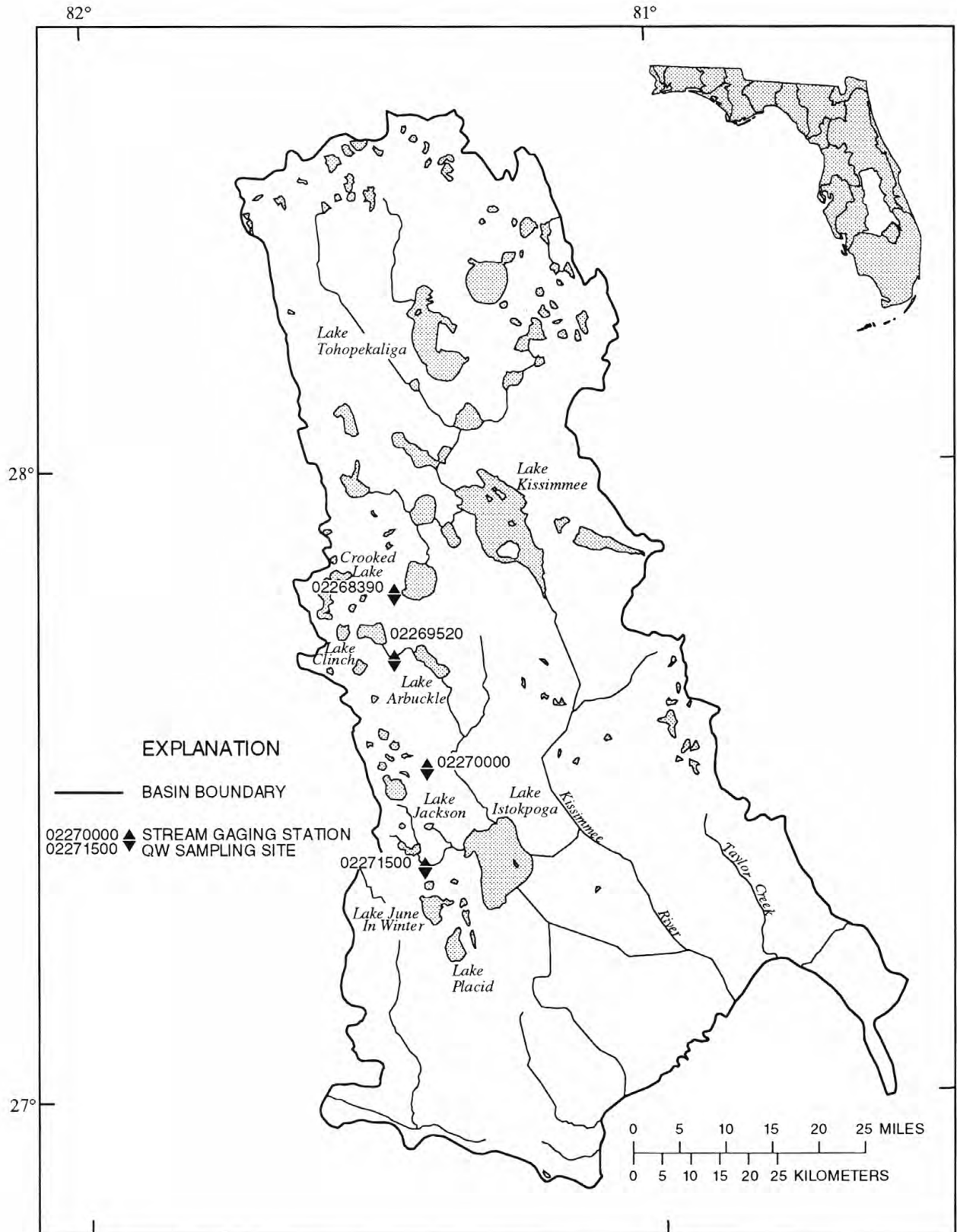


Figure 13.--Location of stream gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okeechobee from the north; and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

SOUTHERN FLORIDA
KISSIMMEE RIVER BASIN

37

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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	27	38	62	59	72	67	39	27	14	38	45
2	29	31	38	59	58	72	68	39	25	14	36	46
3	27	34	37	56	71	70	68	37	23	13	45	48
4	26	30	38	54	82	68	67	36	22	12	52	48
5	25	28	41	52	85	65	65	37	21	12	57	47
6	26	26	40	50	80	63	63	38	19	13	56	46
7	25	25	38	50	73	60	60	36	19	16	60	46
8	24	24	37	51	68	58	58	35	20	16	62	45
9	24	24	36	57	64	62	55	34	20	18	59	43
10	23	23	35	58	61	64	54	33	19	19	56	42
11	22	23	37	56	59	66	52	33	18	24	52	41
12	22	22	39	54	57	65	50	32	17	25	48	39
13	22	28	55	52	56	62	48	31	16	45	47	37
14	22	61	87	50	58	60	46	30	16	53	46	35
15	21	81	114	51	59	58	45	29	15	68	43	35
16	21	82	113	60	72	56	44	28	15	83	47	36
17	21	72	101	64	96	54	43	27	14	85	48	36
18	21	63	87	63	113	53	42	26	14	78	47	36
19	22	57	74	61	115	62	41	26	13	79	45	39
20	21	52	66	59	119	116	41	25	13	98	45	46
21	21	48	62	56	123	173	42	25	13	107	54	53
22	20	46	58	54	117	185	42	24	13	109	55	57
23	20	44	56	59	110	168	41	23	17	103	56	57
24	19	44	54	75	104	144	40	23	15	91	55	56
25	19	43	52	88	96	124	39	22	14	78	52	61
26	19	41	54	89	87	109	38	22	14	67	47	89
27	21	40	59	82	78	97	37	22	14	59	43	106
28	28	39	67	76	72	88	37	22	14	53	39	105
29	28	38	70	69	---	80	36	23	14	47	37	94
30	25	38	68	65	---	75	36	23	13	43	37	81
31	25	---	65	62	---	69	---	27	---	40	40	---
TOTAL	720	1234	1816	1894	2292	2618	1465	907	507	1582	1504	1595
MEAN	23.2	41.1	58.6	61.1	81.9	84.5	48.8	29.3	16.9	51.0	48.5	53.2
MAX	31	82	114	89	123	185	68	39	27	109	62	106
MIN	19	22	35	50	56	53	36	22	13	12	36	35
CFSM	.44	.78	1.11	1.16	1.55	1.60	.92	.55	.32	.97	.92	1.01
IN.	.51	.87	1.28	1.33	1.61	1.84	1.03	.64	.36	1.11	1.06	1.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1998, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998
MEAN	47.0	35.0	37.7	41.4	40.1	40.7	33.4
MAX	75.9	47.0	64.3	61.1	81.9	84.5	48.8
(WY)	1996	1995	1995	1998	1998	1998	1998
MIN	20.4	22.1	19.2	20.2	24.8	21.3	21.0
(WY)	1994	1994	1994	1992	1994	1992	1994

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1992 - 1998
ANNUAL TOTAL	12483	18134	
ANNUAL MEAN	34.2	49.7	40.3
HIGHEST ANNUAL MEAN			49.7
LOWEST ANNUAL MEAN			33.2
HIGHEST DAILY MEAN	114	185	185
LOWEST DAILY MEAN	15	12	9.1
ANNUAL SEVEN-DAY MINIMUM	16	13	9.8
INSTANTANEOUS PEAK FLOW		188	188
INSTANTANEOUS PEAK STAGE		46.04	46.04
ANNUAL RUNOFF (CFSM)	.65	.94	.76
ANNUAL RUNOFF (INCHES)	8.79	12.78	10.38
10 PERCENT EXCEEDS	58	85	69
50 PERCENT EXCEEDS	29	46	35
90 PERCENT EXCEEDS	20	20	19

SOUTHERN FLORIDA
KISSIMMEE RIVER BASIN
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 1997 TO SEPTEMBER 1998

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 24...	1030	44.23	44	166	5.00	19.0	7.1
APR 22...	1057	44.17	42	165	5.80	20.5	7.2
JUN 10...	0950	43.41	19	174	5.90	24.0	6.5
AUG 04...	0952	44.31	51	163	5.10	24.0	5.9
SEP 15...	0945	43.90	35	170	5.50	23.0	6.8

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 24...	<.01	1.1	.03	.60	.02	.01
APR 22...	<.01	1.5	.03	.29	<.02	.01
JUN 10...	<.01	1.7	.05	.32	<.02	<.01
AUG 04...	<.01	.49	.06	1.1	.02	.02
SEP 15...	.01	1.2	.03	.34	<.02	.02

SOUTHERN FLORIDA
KISSIMMEE RIVER BASIN

39

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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	19	61	126	139	e178	e245	112	45	17	34	35
2	28	42	60	120	137	e175	e230	107	43	16	32	34
3	27	45	57	116	182	e170	e210	98	42	15	34	36
4	25	31	60	113	191	e165	202	96	41	14	34	37
5	24	27	70	111	177	e160	195	108	39	14	33	37
6	24	25	66	109	162	e150	186	104	37	13	44	44
7	23	24	60	107	156	e145	180	96	36	13	45	44
8	22	23	57	110	152	e140	174	89	37	12	41	55
9	21	22	55	123	147	e130	169	85	35	12	38	49
10	21	21	54	121	141	e150	165	81	34	12	37	48
11	21	21	54	115	136	e170	159	79	32	12	36	46
12	20	20	55	110	132	e160	150	76	31	13	35	42
13	19	35	135	106	130	e150	145	72	29	35	33	39
14	19	300	241	103	130	e145	141	69	27	50	31	37
15	18	286	230	106	129	e140	136	67	25	67	35	37
16	18	180	181	135	166	e130	131	64	24	62	59	41
17	18	129	151	135	e300	e120	127	61	23	45	55	40
18	17	103	134	124	e350	e110	122	60	21	38	51	39
19	18	89	125	117	e380	e150	117	58	20	57	44	48
20	16	81	120	114	e400	e300	114	56	19	55	49	97
21	15	75	116	110	e370	e700	128	54	21	48	54	106
22	15	74	113	107	e340	e620	127	52	40	45	49	84
23	15	77	110	144	e300	e540	120	50	33	44	47	70
24	14	79	107	275	e260	e450	113	48	25	42	44	69
25	14	73	104	249	e230	e400	108	46	26	40	41	86
26	14	68	111	200	e200	e370	105	45	23	37	39	163
27	16	65	131	177	e190	e340	102	43	22	36	e25	157
28	22	62	166	166	e180	e320	99	43	20	35	36	123
29	18	60	154	157	---	e290	96	43	19	34	34	104
30	18	59	142	149	---	e270	95	43	17	41	33	93
31	18	---	132	144	---	e260	---	47	---	37	36	---
TOTAL	607	2215	3412	4199	5907	7698	4391	2152	886	1011	1238	1940
MEAN	19.6	73.8	110	135	211	248	146	69.4	29.5	32.6	39.9	64.7
MAX	29	300	241	275	400	700	245	112	45	67	59	163
MIN	14	19	54	103	129	110	95	43	17	12	25	34
AC-FT	1200	4390	6770	8330	11720	15270	8710	4270	1760	2010	2460	3850
CFSM	.16	.62	.92	1.13	1.76	2.07	1.22	.58	.25	.27	.33	.54
IN.	.19	.69	1.06	1.30	1.83	2.39	1.36	.67	.27	.31	.38	.60

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1998, BY WATER YEAR (WY)

MEAN	83.1	59.6	58.0	64.1	66.3	69.9	50.7	28.1	32.4	46.7	80.6	88.5
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	13.5	9.88	19.8	23.0	18.4	26.3
(WY)	1998	1994	1994	1992	1997	1997	1997	1992	1997	1993	1993	1993

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1992 - 1998
ANNUAL TOTAL	13193.5	35656	
ANNUAL MEAN	36.1	97.7	60.7
HIGHEST ANNUAL MEAN			125 1995
LOWEST ANNUAL MEAN			27.6 1997
HIGHEST DAILY MEAN	300 Nov 14	e700 Mar 21	700 Mar 21 1998
LOWEST DAILY MEAN	9.2 Apr 10	12 Jul 8	6.2 May 30 1992
ANNUAL SEVEN-DAY MINIMUM	9.5 Apr 5	12 Jul 6	6.7 May 27 1992
INSTANTANEOUS PEAK STAGE		Unknown Mar 21	Unknown Mar 21 1998
ANNUAL RUNOFF (AC-FT)	26170	70720	43940
ANNUAL RUNOFF (CFSM)	.30	.81	.51
ANNUAL RUNOFF (INCHES)	4.09	11.05	6.87
10 PERCENT EXCEEDS	74	188	141
50 PERCENT EXCEEDS	21	64	36
90 PERCENT EXCEEDS	15	20	16

SOUTHERN FLORIDA
KISSIMMEE RIVER BASIN
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 1997 TO SEPTEMBER 1998

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 24...	1105	43.26	79	171	4.90	19.5	5.9
APR 22...	1040	43.94	128	158	5.20	19.0	5.4
JUN 10...	1015	41.71	34	212	6.00	26.0	5.3
AUG 04...	1021	41.71	34	203	5.50	26.0	5.0
SEP 15...	1020	41.81	37	190	5.50	23.5	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 24...	<.01	.32	.07	1.6	.16	.15
APR 22...	<.01	.34	.04	.94	.13	.11
JUN 10...	<.01	.62	.05	.81	.04	.02
AUG 04...	.01	.62	.11	1.1	.08	.04
SEP 15...	.01	.65	.05	.96	.07	.04

SOUTHERN FLORIDA
KISSIMMEE RIVER BASIN

41

02270000 CARTER CREEK NEAR SEBRING, FL

LOCATION.--Lat 27°31'55", long 81°23'16", in SE¹/₄ 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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	12	36	47	45	75	112	46	24	11	14	15
2	24	18	35	44	48	74	115	46	23	12	18	15
3	21	20	34	42	113	63	116	43	21	11	36	21
4	18	16	42	41	91	56	117	43	20	10	31	26
5	16	14	50	40	76	51	116	46	19	9.9	32	29
6	15	13	43	40	62	48	114	46	17	9.8	42	36
7	14	12	38	39	58	46	113	43	16	9.5	47	46
8	13	12	36	47	53	44	111	41	15	9.5	35	52
9	12	11	34	58	49	108	109	39	14	9.2	29	61
10	12	10	33	51	46	91	106	37	14	8.9	26	60
11	12	10	34	46	43	72	103	36	14	8.8	22	42
12	12	9.8	35	42	42	58	98	34	13	18	20	34
13	11	16	105	39	40	50	93	33	12	33	19	28
14	11	151	126	38	38	45	89	31	12	43	19	26
15	11	122	105	40	38	43	84	30	11	57	30	32
16	10	93	81	59	87	41	80	29	11	46	23	31
17	10	68	65	52	145	40	75	27	11	32	27	28
18	10	50	55	45	130	40	71	26	10	31	24	29
19	10	42	50	42	110	110	67	26	9.8	74	21	29
20	9.9	37	48	39	100	171	66	25	9.9	58	29	44
21	9.6	35	46	37	90	149	70	24	12	40	47	52
22	9.3	51	46	36	80	131	69	23	12	31	42	43
23	9.2	72	46	70	75	121	64	22	12	25	40	42
24	9.1	61	45	107	71	115	58	21	12	21	31	44
25	9.0	50	44	87	66	110	54	20	12	18	25	60
26	8.7	44	49	72	63	108	51	19	19	17	22	103
27	9.5	41	76	62	61	108	49	19	15	15	20	75
28	13	38	87	57	60	108	46	18	14	14	18	61
29	12	37	69	53	---	109	45	21	13	13	16	52
30	12	37	58	49	---	109	45	22	12	13	15	48
31	11	---	52	47	---	109	---	25	---	13	15	---
TOTAL	393.3	1202.8	1703	1568	1980	2603	2506	961	429.7	721.6	835	1264
MEAN	12.7	40.1	54.9	50.6	70.7	84.0	83.5	31.0	14.3	23.3	26.9	42.1
MAX	29	151	126	107	145	171	117	46	24	74	47	103
MIN	8.7	9.8	33	36	38	40	45	18	9.8	8.8	14	15
AC-FT	780	2390	3380	3110	3930	5160	4970	1910	852	1430	1660	2510
CFSM	.33	1.03	1.42	1.30	1.82	2.16	2.15	.80	.37	.60	.69	1.09
IN.	.38	1.15	1.63	1.50	1.90	2.50	2.40	.92	.41	.69	.80	1.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1998, BY WATER YEAR (WY)

	MEAN	38.7	25.9	21.0	22.4	23.9	24.5	20.6	15.1	23.8	30.9	36.6	44.4
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1955 - 1998
ANNUAL TOTAL	6075.5	16167.4	
ANNUAL MEAN	16.6	44.3	27.6
HIGHEST ANNUAL MEAN			65.6
LOWEST ANNUAL MEAN			11.1
HIGHEST DAILY MEAN	151	Nov 14	352
LOWEST DAILY MEAN	3.8	Apr 11	2.3
ANNUAL SEVEN-DAY MINIMUM	4.0	Apr 5	2.6
INSTANTANEOUS PEAK FLOW		186	Mar 20
INSTANTANEOUS PEAK STAGE		9.66	Mar 20
ANNUAL RUNOFF (AC-FT)	12050	32070	11.05
ANNUAL RUNOFF (CFSM)	.43	1.14	.71
ANNUAL RUNOFF (INCHES)	5.82	15.50	9.66
10 PERCENT EXCEEDS	42	101	56
50 PERCENT EXCEEDS	9.4	39	20
90 PERCENT EXCEEDS	5.4	12	7.7

SOUTHERN FLORIDA
KISSIMMEE RIVER BASIN
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 1997 TO SEPTEMBER 1998

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 24...	1240	7.05	60	139	5.30	19.5	6.5
APR 22...	1248	7.26	69	139	5.60	21.0	6.3
JUN 10...	1206	5.15	14	139	5.60	25.0	7.1
AUG 04...	1135	6.04	31	134	5.60	24.0	6.4
SEP 15...	1125	6.12	32	142	5.50	23.5	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 24...	<.01	.11	.05	.71	.02	<.01
APR 22...	<.01	.27	.04	.45	.03	.02
JUN 10...	<.01	.28	.07	.58	.04	.02
AUG 04...	<.01	.11	.03	.87	.05	.02
SEP 15...	.01	.21	.04	.59	.03	.02

LOCATION.--Lat 27°22'26", long 81°23'37", in SE¹/₄ 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 mi², includes area drained by Lake Sebring.

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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	22	88	84	145	414	318	56	39	6.9	24	57
2	149	28	77	78	147	398	202	52	35	6.6	25	57
3	127	52	69	74	396	247	177	48	31	6.1	30	71
4	108	41	70	71	464	196	164	47	27	5.8	55	75
5	94	34	91	68	431	177	146	57	23	5.7	53	74
6	83	30	79	65	399	165	132	58	21	5.7	48	70
7	73	28	e70	61	447	154	121	52	19	7.7	45	82
8	63	25	e62	73	407	145	113	47	16	10	44	99
9	57	20	e58	104	368	186	109	42	17	9.1	44	95
10	52	17	57	97	338	200	102	39	16	8.5	42	99
11	47	16	56	88	317	194	92	35	15	8.3	40	148
12	42	15	56	81	304	187	81	31	14	7.3	38	141
13	38	16	105	77	288	178	73	28	13	8.9	39	131
14	35	67	172	74	272	170	68	25	12	18	37	118
15	33	104	194	74	260	161	64	24	11	40	37	111
16	30	98	183	130	366	152	59	21	10	46	36	109
17	28	88	164	143	447	143	55	20	9.8	87	36	107
18	28	77	149	129	565	137	51	19	9.3	91	35	127
19	29	71	136	120	592	183	48	18	9.1	86	35	128
20	27	66	123	111	631	487	47	16	8.7	86	41	139
21	23	61	113	99	644	791	57	15	9.0	128	68	167
22	21	70	106	77	617	802	75	15	11	150	130	332
23	20	141	98	88	599	721	69	14	9.9	152	131	342
24	19	154	91	166	544	607	61	13	9.1	147	129	322
25	18	136	88	174	501	537	55	13	9.0	145	185	331
26	18	122	89	169	458	491	50	12	9.1	143	186	430
27	20	112	99	171	428	456	51	12	8.7	131	174	445
28	24	102	112	172	410	428	63	12	8.4	42	99	448
29	22	92	104	161	---	399	58	13	8.0	23	76	422
30	20	88	98	157	---	376	58	18	7.4	19	67	364
31	20	---	92	151	---	354	---	32	---	19	61	---
TOTAL	1542	1993	3149	3387	11785	10236	2819	904	445.5	1649.6	2090	5641
MEAN	49.7	66.4	102	109	421	330	94.0	29.2	14.9	53.2	67.4	188
MAX	174	154	194	174	644	802	318	58	39	152	186	448
MIN	18	15	56	61	145	137	47	12	7.4	5.7	24	57
AC-FT	3060	3950	6250	6720	23380	20300	5590	1790	884	3270	4150	11190
CFSM	.46	.61	.93	1.00	3.86	3.03	.86	.27	.14	.49	.62	1.73
IN.	.53	.68	1.07	1.16	4.02	3.49	.96	.31	.15	.56	.71	1.93

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1996, BY WATER YEAR (WY)												
MEAN	131	64.8	45.9	46.2	53.7	55.3	41.1	22.7	53.5	83.4	123	164
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

	FOR 1959-1960 WATER YEAR		FOR 1960-1961 WATER YEAR		FOR 1961-1962 WATER YEAR	
ANNUAL TOTAL	15049.0		45641.1			
ANNUAL MEAN	41.2		125		73.8	
HIGHEST ANNUAL MEAN					268	1960
LOWEST ANNUAL MEAN					15.1	1956
HIGHEST DAILY MEAN	235	Sep 29	802	Mar 22	1680	Sep 23 1948
LOWEST DAILY MEAN	1.4	May 31	5.7	Jul 5	.50	May 22 1956
ANNUAL SEVEN-DAY MINIMUM	1.8	Apr 5	6.3	Jun 30	.69	May 21 1956
INSTANTANEOUS PEAK FLOW			828	Mar 21	1780	Sep 23 1948
INSTANTANEOUS PEAK STAGE			7.40	Mar 21	10.67	Sep 23 1948
ANNUAL RUNOFF (AC-FT)	29850		90530		53460	
ANNUAL RUNOFF (CFSM)	.38		1.15		.68	
ANNUAL RUNOFF (INCHES)	5.14		15.58		9.20	
10 PERCENT EXCEEDS	113		367		171	
50 PERCENT EXCEEDS	17		74		39	
90 PERCENT EXCEEDS	3.5		13		8.3	

SOUTHERN FLORIDA
KISSIMMEE RIVER BASIN
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 1997 TO SEPTEMBER 1998

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 24...	1330	5.52	154	128	4.80	21.0	--	7.1	--	--	--	--
APR 22...	1339	4.75	76	129	4.60	23.5	120	6.0	8.3	3.7	7.3	2.7
JUN 10...	1250	3.31	16	157	4.90	28.0	--	4.3	--	--	--	--
AUG 04...	1230	4.34	58	149	5.30	27.0	100	4.7	9.8	5.1	7.5	3.2
SEP 15...	1215	4.82	109	116	4.70	25.0	200	4.9	7.1	3.7	6.2	2.6

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 24...	--	--	--	--	--	<.01	.08	.08	1.1	.05	<.01	--
APR 22...	22	13	<.10	3.0	106	<.01	.34	.14	1.2	.08	.04	180
JUN 10...	--	--	--	--	--	.01	.63	.13	.73	.04	.01	--
AUG 04...	29	15	<.10	5.8	118	<.01	.18	.06	.80	.04	.02	310
SEP 15...	19	13	<.10	3.8	114	.01	.19	.07	.78	.03	.02	180

WATER RESOURCES DATA FOR FLORIDA, 1998
Volume 3A: Southwest Florida Surface Water

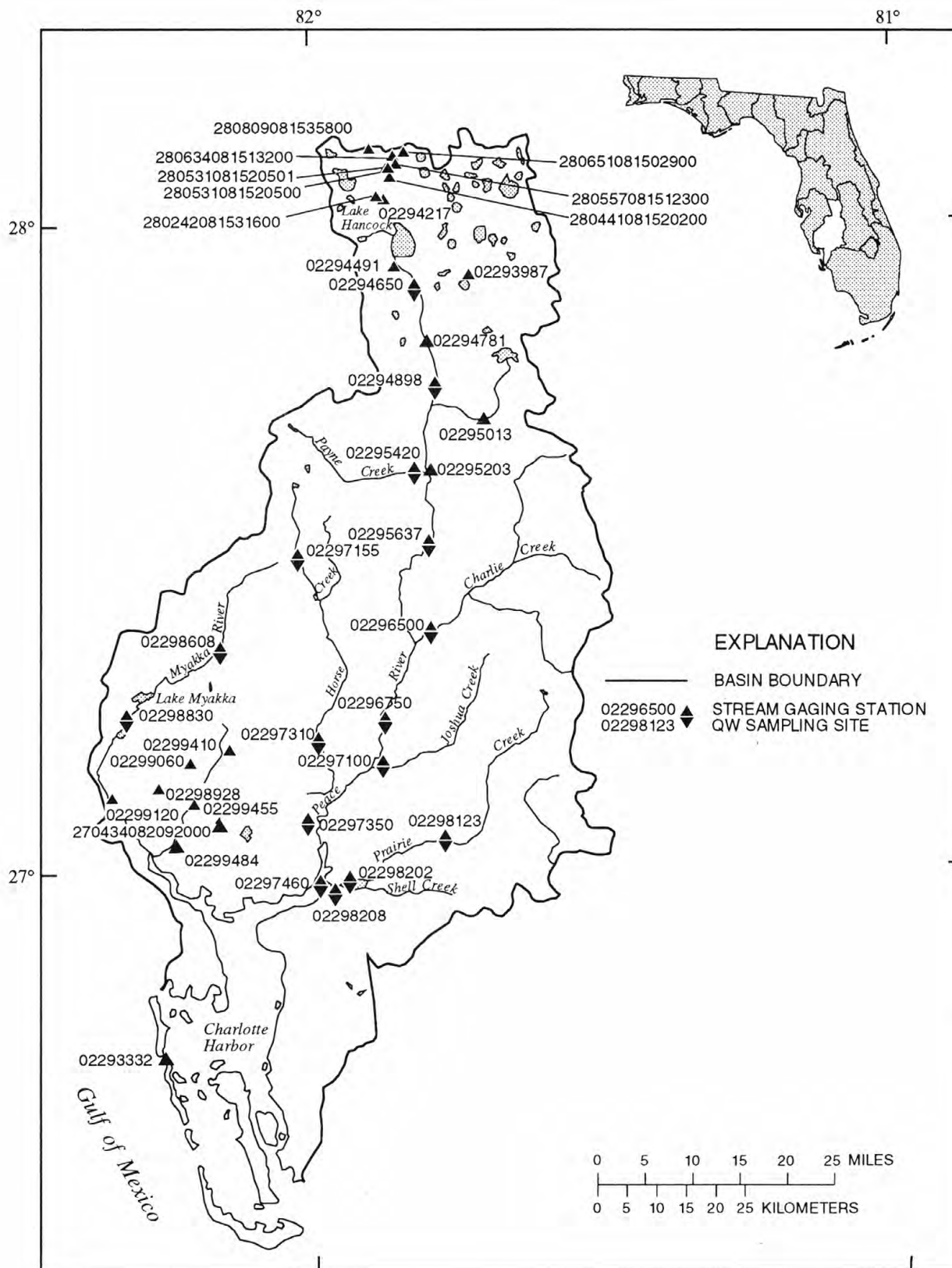


Figure 14.--Location of stream gaging stations in the Peace and Myakka River basins, Charlotte Harbor and Coastal area.

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
CHARLOTTE HARBOR AND COASTAL AREA

47

02293332 CHARLOTTE HARBOR AT PORT BOCA GRANDE, FL

LOCATION.--Lat 26°43'12", long 82°15'30", in SE 1/4 (corrected) 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.

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, 2.69 ft, Sept. 3; minimum, 1.44 ft below NGVD, Dec. 16.

REVISIONS.--Revised figures of gage height for the water year 1997, superceding those published in the report for 1997, are given below.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	1.52	-.12	1.56	.35	1.61	.30	.89	-.11	1.02	-.59	1.18	-.30
2	1.51	.09	1.59	.39	1.17	-.16	.81	-.07	1.04	-.48	1.14	-.39
3	1.52	.15	1.35	-.45	.61	-.10	.94	-.16	1.04	-.55	1.22	-.43
4	1.44	.19	.96	-.03	.89	-.28	1.33	-.46	1.63	-.90	1.13	-.58
5	1.47	.34	1.27	.42	1.24	.00	1.35	-.40	1.45	-.84	1.50	-.72
6	1.76	.47	1.37	.44	1.35	-.17	1.53	-.61	1.56	-.81	1.01	-.59
7	3.42	1.56	1.80	.33	1.74	-.13	1.50	-.67	1.68	-.76	1.15	-1.20
8	3.33	.95	1.58	.42	1.19	-.30	1.81	-.93	1.73	-.48	1.28	-.78
9	1.49	.56	1.37	-.85	.98	-1.04	1.81	-.50	1.02	-.89	1.30	-.55
10	1.39	.16	1.27	-.52	1.50	-1.23	1.56	-1.19	---	---	1.20	-.36
11	1.01	-.11	1.13	-.74	1.66	-.86	1.58	-.83	---	---	1.11	-.32
12	.95	-.25	1.10	-1.20	1.69	-.87	1.03	-.86	1.03	-.14	1.09	-.34
13	1.04	-.42	.80	-1.14	1.63	-.75	.28	-1.11	1.57	-.10	1.71	.23
14	1.47	-.36	1.00	-1.04	1.27	-.92	.54	-.93	1.44	.11	1.65	-.13
15	1.60	-.15	1.44	-.47	.97	-.69	1.50	-.17	.91	-.78	1.09	-.36
16	1.75	.02	1.24	-.27	1.02	-.25	1.03	-.18	.20	-1.28	.69	-.62
17	1.84	.28	1.72	.32	1.41	.39	.64	-.63	.13	-1.38	1.06	-.78
18	1.92	.17	1.57	.45	1.54	.50	.17	-.93	.81	-1.33	1.21	-.41
19	1.35	-.15	1.49	.57	.90	-.84	1.18	-1.18	1.13	-.74	1.08	-.19
20	1.56	.35	1.70	.55	.47	-1.37	1.20	-.72	1.28	-.61	1.41	-.24
21	1.51	.35	1.72	.38	.57	-1.28	1.09	-.77	1.41	-.35	1.36	.08
22	1.56	.55	1.40	.11	1.14	-1.14	1.28	-.86	1.45	-.17	1.27	-.07
23	1.50	.48	1.79	-.49	1.51	-.87	1.24	-.79	.88	-.71	1.12	-.12
24	1.60	.17	1.96	-.29	1.47	-.60	1.29	-.64	.40	-1.04	1.13	-.23
25	1.77	.09	1.96	-.10	1.41	-.74	1.41	-.36	.71	-.33	1.15	-.17
26	1.72	-.03	1.90	-.25	1.23	-.81	.89	-1.05	1.08	.00	1.23	-.39
27	1.72	-.43	1.14	-.97	1.27	-.74	.80	-.57	1.11	-.07	1.05	-.42
28	1.49	-.49	.65	-1.12	.98	-.77	.81	-.15	1.07	-.20	1.22	-.34
29	1.46	-.27	1.15	-.62	.94	-.56	.86	-.34	---	---	1.14	-.67
30	1.63	-.09	1.47	.08	.65	-.68	.55	-.31	---	---	1.12	-.54
31	1.61	-.11	---	---	.65	-.28	.46	-.45	---	---	---	---
MONTH	3.42	-.49	1.96	-1.20	1.74	-1.37	1.81	-1.19	---	---	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
CHARLOTTE HARBOR AND COASTAL AREA

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	---	---	1.24	-.12	1.77	.23	1.43	-.48	1.49	-.44	1.60	-.03
2	1.26	-.91	1.35	.03	1.62	-.25	1.71	-.37	1.62	-.15	1.60	.22
3	1.43	-.72	1.58	.30	1.57	-.52	1.61	-.48	1.57	-.23	1.46	.39
4	1.51	-.23	1.41	-.34	1.62	-.47	1.76	-.45	1.57	-.05	1.46	.45
5	1.53	-.12	.74	-.72	1.79	-.41	1.69	-.52	1.45	.04	1.25	-.09
6	1.48	-.02	1.51	-.43	1.73	-.50	1.53	-.56	1.26	.01	1.04	.13
7	1.45	-.38	1.58	-.62	1.55	-.50	1.32	-.37	1.02	.05	1.33	.29
8	1.14	-.68	1.75	-.46	1.27	-.39	1.12	-.51	.94	.13	1.52	.41
9	1.35	-.71	1.50	-.53	1.62	-.15	1.17	-.16	.99	.31	1.53	.33
10	1.17	-.75	1.40	-.49	1.35	-.28	1.07	.01	1.17	.26	1.69	.25
11	1.77	-.30	1.35	-.29	1.01	-.08	1.06	.13	1.20	.15	1.95	.31
12	1.65	-.20	1.92	-.13	1.27	.05	1.16	.20	1.29	-.10	1.86	.15
13	1.44	-.30	1.20	-.14	1.41	.24	1.20	.27	1.34	-.13	1.79	-.02
14	.80	-.46	.84	-.16	1.60	.46	1.31	-.01	1.53	-.19	1.81	-.06
15	.39	-.59	.84	-.21	1.45	.20	---	---	1.70	-.26	1.88	.11
16	.66	-.51	.84	-.25	1.39	-.07	1.44	-.50	1.88	-.33	1.84	.25
17	.97	-.17	.95	-.06	1.38	-.23	1.46	-.54	1.82	-.35	1.72	.18
18	.75	-.23	1.09	-.24	1.56	-.48	1.74	-.45	1.80	-.28	1.56	.03
19	.92	-.04	1.21	-.18	1.53	-.67	1.90	-.60	1.73	-.20	1.42	-.23
20	1.17	-.02	1.26	-.55	1.48	-.76	1.84	-.44	1.53	.12	1.56	-.11
21	1.36	-.09	1.24	-.68	1.65	-.68	1.69	-.42	1.50	.25	1.54	-.10
22	1.47	-.16	1.23	-.80	1.66	-.70	1.57	-.34	1.51	.37	1.45	-.10
23	2.15	.23	1.41	-.73	1.55	-.73	1.58	-.06	1.49	.21	1.57	.02
24	1.32	-.45	1.55	-.63	1.60	-.79	1.55	.03	1.45	.26	1.41	.28
25	1.71	-.33	1.73	-.41	1.25	-.68	1.07	.11	1.42	-.02	1.47	.29
26	1.65	-.30	1.50	-.55	1.17	-.40	1.05	.02	1.46	-.04	1.92	.69
27	2.07	.20	1.10	-.64	.95	-.22	1.38	.00	1.51	.05	2.08	.82
28	2.38	.09	1.09	-.55	1.12	-.01	1.37	-.19	1.49	.04	1.61	.17
29	1.25	-.21	.82	-.66	1.43	-.05	1.30	-.32	1.55	-.05	1.12	-.06
30	---	---	.98	-.41	1.45	-.28	1.41	-.33	1.44	-.04	1.15	.12
31	---	---	1.20	-.08	---	---	1.58	-.41	1.54	.14	---	---
MONTH	---	---	1.92	-.80	1.79	-.79	---	---	1.88	-.44	2.08	-.23

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
CHARLOTTE HARBOR AND COASTAL AREA

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	1.24	.08	2.11	-.06	1.89	-.51	---	---	1.07	-.21	1.41	.04
2	1.33	.22	2.17	.44	1.14	-.83	.32	-1.27	---	---	.85	-.57
3	1.11	-.18	1.22	-.62	1.28	-.90	.47	-.74	---	---	1.13	-.26
4	1.25	-.01	1.17	-.78	1.50	-.57	.68	-.34	1.49	.29	.95	-.22
5	1.21	-.23	1.13	-.66	1.22	-.94	.86	-.04	.87	-.23	1.34	-.25
6	1.01	-.31	1.04	-.34	.41	-.93	1.05	-.23	1.53	-.43	1.41	-.08
7	.93	-.38	1.37	-.07	.50	-.61	1.56	-.27	1.14	-.58	1.87	-.09
8	1.24	-.14	1.03	-.28	1.01	-.12	1.37	-.15	1.02	-.53	1.92	.29
9	1.35	-.16	1.19	-.06	1.17	-.06	.93	-.60	1.12	-.68	1.70	.44
10	1.16	-.31	1.31	.25	1.26	-.26	.82	-1.15	1.40	-.65	.90	-.63
11	1.13	-.19	1.43	.02	1.50	-.44	.92	-1.32	1.49	-.17	.27	-1.13
12	1.48	.21	2.10	-.21	1.54	-.60	1.32	-1.26	1.57	-.09	.28	-1.35
13	1.50	.23	2.39	.28	1.54	-.75	1.32	-.84	1.14	-.18	.35	-.64
14	1.41	.25	2.34	.44	1.34	-.87	1.11	-.90	.71	-.39	.29	-.74
15	1.61	.08	1.49	-.75	1.17	-1.25	1.31	-.41	1.21	-.09	.37	-.53
16	1.75	-.08	1.16	-1.17	.69	-1.44	1.58	-.08	1.63	.47	1.07	-.01
17	1.81	-.14	.80	-1.37	.66	-1.10	.58	-.72	1.73	.09	1.42	.13
18	1.91	-.04	1.08	-.75	.77	-.80	.53	-.42	1.03	-.15	1.68	.25
19	1.77	-.12	1.21	-.63	.56	-.99	1.14	.21	1.06	-.23	1.50	-.02
20	1.29	-.50	.83	-.35	.64	-.48	.87	-.01	.67	-.28	1.86	.09
21	1.40	-.10	1.19	-.11	1.05	.25	1.01	-.04	.61	-.86	1.05	.05
22	1.56	.31	1.18	.17	1.20	.49	1.52	.00	1.94	-.68	.93	-.40
23	1.38	.26	.93	.04	1.01	.24	1.66	-.02	1.26	.00	.77	-.53
24	1.84	.75	.64	-.41	1.47	.16	1.00	-.29	.96	-1.04	---	---
25	1.74	.79	.76	-.99	1.31	.00	.99	-1.18	1.22	-.88	---	---
26	1.92	1.11	1.15	-.32	1.51	-.37	1.94	-.89	1.67	-.47	---	---
27	1.86	.83	1.24	-.50	1.42	-.21	1.72	-.20	1.87	.28	---	---
28	1.08	-.08	1.52	-.43	1.57	-1.29	1.52	-.90	1.79	.11	---	---
29	1.10	-.02	1.70	-.44	1.54	-.32	1.16	-.67	---	---	---	---
30	1.61	-.24	1.86	-.50	1.48	-.94	1.29	-.48	---	---	---	---
31	1.94	.15	---	---	.91	-1.14	1.21	-.26	---	---	---	---
MONTH	1.94	-.50	2.39	-1.37	1.89	-1.44	---	---	---	---	---	---

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	1.50	-.32	1.39	-.29	.95	-.16	.97	.18	1.31	.09	1.56	.19
2	1.19	-.35	.87	-.32	1.07	.11	.99	.06	1.30	-.09	2.06	.76
3	1.17	-.36	.71	-.38	.94	.05	.91	-.20	1.40	-.16	2.69	.81
4	1.15	-.25	.95	-.20	1.10	.17	.86	-.35	1.42	-.38	1.83	-.12
5	.77	-.22	1.06	-.10	1.16	-.02	1.03	-.34	1.52	-.44	1.71	-.32
6	.85	-.41	.93	.11	1.40	-.02	1.31	-.41	1.63	-.47	1.71	-.08
7	1.18	-.05	1.17	.17	1.26	-.28	1.62	-.41	1.69	-.45	1.76	.29
8	1.29	.16	1.55	.36	1.11	-.46	1.35	-.76	1.62	-.46	1.79	.44
9	1.32	.21	1.35	-.02	1.39	-.44	1.52	-.63	1.28	-.53	1.71	.48
10	.74	-.52	1.62	.04	---	---	1.61	-.66	1.28	-.17	1.79	.24
11	.37	-1.00	1.33	-.37	---	---	1.76	-.42	1.33	.12	1.62	.13
12	.40	-.62	1.28	-.42	1.44	-.49	1.57	-.33	1.13	.16	1.60	.19
13	.99	-.20	1.17	-.55	1.22	-.50	1.49	-.11	1.02	-.13	1.73	.22
14	1.36	-.18	1.29	-.44	1.36	-.32	1.27	-.07	1.03	-.31	1.73	.32
15	1.45	-.09	1.30	-.46	1.33	-.16	1.12	-.04	1.23	-.31	1.73	.25
16	1.56	-.02	1.38	-.25	1.34	-.12	1.04	.02	1.29	-.39	1.96	.53
17	1.45	-.17	1.42	-.20	1.13	.12	1.17	-.11	1.43	-.28	2.29	.74
18	1.28	-.14	1.20	-.11	1.02	.09	1.30	-.29	1.38	-.31	2.10	.73
19	1.48	-.22	1.02	.01	1.24	-.13	1.38	-.55	1.60	-.32	2.39	.86
20	1.09	-.34	.87	-.23	1.33	-.38	1.58	-.58	1.66	-.44	1.91	.63
21	.90	-.32	.96	-.15	1.53	-.53	1.57	-.60	1.45	-.40	1.62	.47
22	.75	-.39	1.11	-.22	1.38	-.81	1.54	-.46	1.74	-.04	1.37	.38
23	.73	-.32	1.41	-.29	1.53	-.72	1.62	-.39	1.39	.12	1.53	.41
24	.63	-.59	1.52	-.45	1.68	-.66	1.56	-.34	1.42	.21	1.50	.29
25	.76	-.69	1.71	-.40	1.51	-.70	1.53	-.29	1.27	.41	.80	-.75
26	---	---	1.90	-.28	1.46	-.53	1.25	-.22	1.37	.67	2.54	.46
27	---	---	1.95	-.27	1.37	-.42	1.16	.03	1.54	.66	1.73	.69
28	1.48	-.63	1.71	-.48	1.12	-.35	1.02	.13	1.40	.57	1.51	.34
29	1.62	-.48	1.48	-.35	.86	-.17	.98	.34	1.50	.45	1.66	.39
30	1.71	-.29	1.33	-.28	.95	-.07	1.17	.45	1.46	.31	1.87	.50
31	---	---	1.15	-.16	---	---	1.29	.40	1.54	.18	---	---
MONTH	---	---	1.95	-.55	---	---	1.76	-.76	1.74	-.53	2.69	-.75

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

02293987 PEACE CREEK DRAINAGE CANAL NEAR WAHNETA, FL

LOCATION.--Lat 27°55'28", long 81°43'37", in SE¹/₄ sec.29, T.29 S., R.26 E., Polk County, Hydrologic Unit 03100101, on left bank, on downstream side of bridge on State Highway 665, 0.5 mi north of U.S. 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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 62.00 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	109	81	478	451	674	489	38	14	6.1	25	20
2	54	120	73	475	447	655	468	36	12	6.3	20	25
3	53	117	65	469	498	639	448	33	13	5.8	20	28
4	47	115	72	462	506	623	428	30	e14	5.6	20	32
5	41	106	96	452	505	607	407	31	e12	5.3	23	30
6	38	93	98	439	507	590	388	39	9.7	4.6	20	29
7	35	81	94	428	498	574	370	49	8.1	4.6	19	31
8	35	67	88	428	489	558	352	55	9.3	4.6	18	29
9	34	58	87	436	478	572	337	58	9.3	6.5	17	29
10	31	52	92	435	468	562	318	56	7.9	9.2	18	26
11	29	47	132	430	457	555	301	53	7.4	8.4	18	25
12	27	45	171	425	441	542	285	55	6.6	9.4	17	24
13	26	60	348	415	427	529	268	47	6.1	17	16	23
14	24	196	481	406	422	516	253	33	6.2	17	16	21
15	23	218	531	405	416	501	235	28	6.4	32	16	21
16	22	222	544	416	502	487	221	25	6.2	39	15	21
17	21	217	551	416	563	472	207	23	6.0	36	18	21
18	21	208	551	412	593	460	188	21	5.3	32	22	21
19	20	196	545	407	599	512	162	18	5.5	27	21	117
20	19	188	530	401	706	610	135	18	5.0	45	20	157
21	18	178	504	394	727	636	117	16	5.1	62	21	e180
22	18	167	482	387	733	636	103	15	5.6	64	22	e230
23	17	157	464	420	723	634	90	14	5.5	59	24	e300
24	16	145	447	481	709	626	79	13	5.2	53	22	e380
25	15	132	427	498	699	615	67	13	5.0	52	18	e450
26	15	121	413	493	683	601	58	12	5.9	49	16	592
27	22	109	455	498	664	584	52	15	7.3	49	15	608
28	47	98	488	490	663	568	48	13	6.7	48	15	600
29	46	92	492	486	---	550	42	13	6.0	44	14	579
30	44	84	486	475	---	530	37	12	5.6	41	12	554
31	46	---	482	464	---	510	---	11	---	36	19	---
TOTAL	965	3798	10370	13721	15574	17728	6953	893	227.9	878.4	577	5203
MEAN	31.1	127	335	443	556	572	232	28.8	7.60	28.3	18.6	173
MAX	61	222	551	498	733	674	489	58	14	64	25	608
MIN	15	45	65	387	416	460	37	11	5.0	4.6	12	20

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1998, BY WATER YEAR (WY)

MEAN	146	82.9	92.9	147	127	128	91.4	16.2	33.1	85.6	191	228
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	10.9	7.68	8.54	7.60	28.3	18.6	68.3
(WY)	1998	1997	1992	1992	1992	1992	1997	1994	1998	1998	1998	1997

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1992 - 1998
ANNUAL TOTAL	30909.3	76888.3	
ANNUAL MEAN	84.7	211	114
HIGHEST ANNUAL MEAN			211
LOWEST ANNUAL MEAN			54.8
HIGHEST DAILY MEAN	551	733	739
LOWEST DAILY MEAN	4.1	4.6	3.1
ANNUAL SEVEN-DAY MINIMUM	5.0	5.3	3.6
INSTANTANEOUS PEAK FLOW		737	739
INSTANTANEOUS PEAK STAGE		44.16	44.16
10 PERCENT EXCEEDS	257	554	367
50 PERCENT EXCEEDS	23	65	47
90 PERCENT EXCEEDS	8.2	9.6	9.1

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

51

280809081535800 WILLIAMS POND CLAY SETTLING AREA OUTFALL NEAR LAKE LAND, FL

LOCATION.--Lat 28°08'09", long 81°53'58", in NE 1/4 sec.15, T.27 S., R.24 E., Polk County, Hydrologic Unit 03100101, on west shore at concrete control structure, 0.3 mi south of intersection Interstate 4 and State Highway 33, and 7.3 mi northeast of Lakeland.

DRAINAGE AREA.--0.80 mi².

PERIOD OF RECORD.--February 1996 to September 1998 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (BCI reference mark).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.7	.42	4.4	.75	5.5	1.8	.06	.00	.00	.00	.00
2	1.7	2.0	.21	3.7	.72	5.5	1.7	.04	.00	.00	.00	.00
3	1.6	2.1	.15	3.1	1.6	5.2	1.7	.02	.00	.00	.00	.00
4	1.5	2.2	1.5	2.6	1.8	4.6	1.6	.01	.00	.00	.00	.00
5	1.2	2.2	2.7	2.2	1.9	4.2	1.5	.02	.00	.00	.00	.01
6	.80	2.1	3.6	2.0	1.9	3.5	1.3	.02	.00	.00	.13	.07
7	.40	2.0	3.5	1.9	1.9	2.8	1.0	.01	.00	.00	.67	.03
8	.25	2.0	3.2	2.0	1.8	2.4	.62	.00	.00	.00	.60	.01
9	.16	1.9	2.9	2.0	1.8	2.8	.23	.00	.00	.00	.60	.00
10	.09	1.9	2.8	2.1	1.7	2.7	.12	.00	.00	.00	.37	.00
11	.05	1.8	4.1	2.0	1.6	2.5	.17	.00	.00	.00	.17	.00
12	.03	1.6	6.4	1.9	1.5	2.3	.17	.00	.00	.01	.07	.00
13	.01	1.5	9.0	1.9	1.4	2.2	.05	.00	.00	.37	.01	.00
14	.00	1.8	9.3	1.8	1.3	2.0	.04	.00	.00	1.4	.00	.00
15	.00	2.4	8.2	1.8	1.3	1.9	.05	.00	.00	1.4	.00	.00
16	.00	2.7	7.0	1.8	1.8	1.9	.05	.00	.00	1.4	.12	.00
17	.00	2.6	5.9	1.7	3.2	1.8	.04	.00	.00	1.3	.93	.00
18	.00	2.3	4.8	1.7	4.6	1.8	.04	.00	.00	1.2	.97	.00
19	.00	2.1	4.0	1.6	4.9	2.6	.03	.00	.00	1.2	.86	.32
20	.00	1.9	3.3	1.5	7.1	7.6	.04	.00	.00	1.1	.75	.95
21	.00	1.8	2.7	1.4	7.5	7.7	.07	.00	.00	1.0	.63	1.5
22	.00	1.7	2.3	1.3	6.8	6.6	.04	.00	.00	.95	.49	1.8
23	.00	1.6	2.0	1.3	7.2	5.5	.02	.00	.00	.80	.41	1.9
24	.00	1.5	1.9	1.5	6.7	4.4	.00	.00	.00	.60	.19	1.9
25	.00	1.4	1.9	1.6	6.2	3.8	.00	.00	.00	.34	.11	2.0
26	.00	1.2	1.9	1.6	5.5	3.2	.00	.00	.00	.16	.09	2.0
27	.28	.90	6.2	1.6	4.9	2.7	.00	.00	.00	.06	.02	1.9
28	.62	.41	8.9	1.5	4.7	2.3	.00	.00	.00	.01	.01	1.9
29	.33	.19	7.6	1.5	---	2.1	.00	.00	.00	.00	.12	1.8
30	.20	.27	6.6	1.4	---	2.0	.00	.00	.00	.00	.06	1.8
31	.62	---	5.5	1.1	---	1.9	---	.00	---	.00	.01	---
TOTAL	11.64	51.77	130.48	59.5	94.07	108.0	12.38	0.18	0.00	13.30	8.39	19.89
MEAN	.38	1.73	4.21	1.92	3.36	3.48	.41	.006	.000	.43	.27	.66
MAX	1.8	2.7	9.3	4.4	7.5	7.7	1.8	.06	.00	1.4	.97	2.0
MIN	.00	.19	.15	1.1	.72	1.8	.00	.00	.00	.00	.00	.00
AC-FT	23	103	259	118	187	214	25	.4	.00	26	17	39
CFSM	.47	2.16	5.26	2.40	4.20	4.35	.52	.01	.00	.54	.34	.83
IN.	.54	2.41	6.07	2.77	4.37	5.02	.58	.01	.00	.62	.39	.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	1996	1997	1998	1996	1997	1998	1996	1997	1998	1996	1997	1998
MEAN	.95	.87	2.17	.96	1.49	1.67	.46	.19	.78	.91	.61	1.15
MAX	1.53	1.73	4.21	1.92	3.36	3.48	.70	.56	1.86	1.16	.93	2.55
(WY)	1997	1998	1998	1998	1998	1998	1996	1997	1997	1996	1997	1996
MIN	.38	.005	.14	.008	.005	.000	.27	.002	.000	.43	.27	.23
(WY)	1998	1997	1997	1997	1997	1997	1997	1996	1998	1998	1998	1997

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1996 - 1998	
ANNUAL TOTAL	347.23		509.60			
ANNUAL MEAN	.95		1.40		.98	
HIGHEST ANNUAL MEAN					1.40	
LOWEST ANNUAL MEAN					.56	
HIGHEST DAILY MEAN	9.3	Dec 14	9.3	Dec 14	9.3	Dec 14 1997
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 14	.00	Apr 22 1996
INSTANTANEOUS PEAK FLOW			9.7		9.7	Dec 13 1997
INSTANTANEOUS PEAK STAGE			149.89		149.89	Dec 13 1997
ANNUAL RUNOFF (AC-FT)	689		1010		709	
ANNUAL RUNOFF (CFSM)	1.19		1.75		1.22	
ANNUAL RUNOFF (INCHES)	16.15		23.70		16.63	
10 PERCENT EXCEEDS	2.7		3.9		2.9	
50 PERCENT EXCEEDS	.07		.72		.09	
90 PERCENT EXCEEDS	.00		.00		.00	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 current year. 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, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.6	2.2	10	3.6	e10	8.8	2.4	.88	.78	1.2	.98
2	2.9	3.5	2.0	9.4	3.5	e9.2	8.6	2.3	.87	.80	1.2	.99
3	2.7	4.0	1.9	9.0	4.7	8.4	8.4	2.1	.84	.82	1.1	1.0
4	2.6	4.0	3.4	8.7	5.0	7.9	8.2	2.0	.83	.86	1.1	1.1
5	2.4	3.8	4.9	8.1	4.8	7.5	7.9	2.0	.82	.91	1.1	1.1
6	2.2	3.6	5.2	7.7	4.7	e7.0	7.5	2.1	.81	.94	1.1	1.1
7	2.1	3.5	5.3	7.2	4.5	e6.6	7.2	2.1	.80	.99	1.0	1.1
8	1.9	3.2	5.1	7.4	4.3	e6.2	7.0	2.0	.79	.99	1.1	1.1
9	1.7	2.9	5.0	7.5	4.0	7.9	6.8	1.9	.79	1.0	1.0	1.2
10	1.5	2.7	5.5	7.1	3.8	7.6	6.3	1.9	.80	1.1	1.1	1.2
11	1.3	2.5	6.9	6.7	3.5	7.2	5.8	1.8	.77	1.1	1.1	1.3
12	1.2	2.3	8.1	6.3	3.4	6.7	5.3	1.7	.76	1.5	1.2	1.3
13	1.1	2.9	12	5.9	3.2	6.1	4.9	1.6	.75	1.4	1.1	1.3
14	1.0	6.1	14	5.7	3.1	5.7	4.6	1.6	.74	1.3	.96	1.3
15	.89	7.0	13	5.6	3.5	5.5	4.3	1.5	.72	1.5	.94	1.3
16	.80	6.8	12	5.7	5.7	e4.8	4.1	1.3	.73	1.8	.92	1.3
17	.74	6.4	11	5.5	8.4	e4.4	3.9	1.2	.71	2.1	.92	1.3
18	.71	5.9	10	5.1	8.0	e4.0	3.7	1.2	.69	2.4	.87	1.5
19	.71	5.5	9.8	4.8	7.5	e6.6	3.5	1.2	.69	3.0	.98	1.9
20	.65	5.1	9.2	4.5	10	e12	3.4	1.1	.68	4.1	1.2	3.2
21	.62	4.8	8.7	4.3	9.8	13	3.4	1.1	.70	4.2	1.2	5.5
22	.57	4.5	8.2	4.1	9.4	12	3.2	1.1	.68	4.1	1.1	6.9
23	.47	4.2	7.7	4.5	9.6	11	3.0	1.1	.66	3.8	1.1	8.4
24	.40	3.9	7.3	5.2	9.1	11	2.8	1.1	.66	3.5	1.0	8.8
25	.38	3.5	6.9	5.1	8.7	11	2.6	1.0	.68	3.4	.99	9.7
26	.33	3.2	7.5	4.8	8.2	10	2.5	1.0	.75	3.1	.99	10
27	.54	2.9	13	4.8	e8.1	10	2.4	1.0	.76	2.8	.98	10
28	.75	2.6	13	4.5	8.1	9.6	2.3	1.0	.74	2.0	.97	10
29	.72	2.4	12	4.2	---	9.4	2.1	1.0	.74	1.5	1.0	9.7
30	.69	2.3	11	4.0	---	9.2	2.2	.96	.76	1.4	1.0	9.5
31	1.0	---	11	3.8	---	9.0	---	.95	---	1.3	.99	---
MEAN	1.24	3.95	8.15	6.04	6.08	8.27	4.89	1.49	.75	1.95	1.05	3.84
MAX	2.9	7.0	14	10	10	13	8.8	2.4	.88	4.2	1.2	10
MIN	.33	2.3	1.9	3.8	3.1	4.0	2.1	.95	.66	.78	.87	.98

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	1996	1997	1998	1996	1997	1998	1996	1997	1998	1996	1997	1998
MEAN	1.91	2.34	4.46	3.30	3.23	4.30	2.65	1.04	.98	1.98	2.97	2.21
MAX	2.58	3.95	8.15	6.04	6.08	8.27	4.89	1.49	1.22	2.01	4.21	3.84
(WY)	1997	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1996 - 1998
ANNUAL MEAN	2.02	3.97	2.61
HIGHEST ANNUAL MEAN			3.97
LOWEST ANNUAL MEAN			1.24
HIGHEST DAILY MEAN	14 Dec 14	14 Dec 14	14 Dec 14 1997
LOWEST DAILY MEAN	.28 Mar 7	.33 Oct 26	.28 Mar 7 1997
ANNUAL SEVEN-DAY MINIMUM	.29 Mar 6	.47 Oct 21	.29 Mar 6 1997
INSTANTANEOUS PEAK FLOW		15 Dec 27	15 Dec 27 1997
INSTANTANEOUS PEAK STAGE		84.81 Dec 14	84.81 Dec 14 1997
10 PERCENT EXCEEDS	5.5	9.2	6.9
50 PERCENT EXCEEDS	.73	2.9	1.5
90 PERCENT EXCEEDS	.34	.79	.44

PEACE RIVER BASIN

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 current year. 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, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	5.0	3.9	24	4.9	21	8.7	.37	e.00	.00	.26	.00
2	1.8	5.0	3.7	23	4.6	19	7.7	.30	e.00	.00	.17	.00
3	1.5	4.6	3.5	21	6.4	17	6.8	.25	e.00	.00	.10	.00
4	1.2	4.2	8.4	19	6.2	15	6.0	.24	e.00	.00	.05	.00
5	1.0	3.7	11	17	5.4	14	5.4	.24	e.00	.00	.03	.00
6	.92	3.4	10	16	5.5	12	4.4	.23	e.00	.00	.03	.00
7	.76	3.2	9.2	14	5.8	11	3.9	.19	e.00	.00	.03	.00
8	.69	2.8	8.6	14	5.4	10	3.6	.16	e.00	.00	.06	.00
9	.59	2.5	8.4	13	5.0	13	3.1	.13	e.00	.00	.04	.00
10	.49	2.3	10	13	4.8	12	2.6	.11	e.00	.00	.02	.00
11	.42	2.2	15	11	4.3	10	2.3	.09	e.00	.00	.01	.00
12	.37	2.1	19	10	3.9	9.0	2.0	e.06	e.00	.01	.00	.00
13	.31	3.4	33	9.2	3.7	8.0	1.8	e.03	e.00	.38	.00	.00
14	.27	13	38	8.4	3.6	7.3	1.6	e.02	e.00	.05	.00	.00
15	.23	14	36	8.0	3.5	6.4	1.4	e.01	e.00	.01	.00	.00
16	.19	12	32	8.0	8.0	5.8	1.2	e.00	e.00	.01	.00	.00
17	.16	10	29	7.4	13	5.2	1.1	e.00	e.00	.00	.00	.00
18	.18	9.0	27	6.9	14	4.8	1.1	e.00	e.00	.00	.00	.02
19	.20	8.1	25	6.4	13	12	.95	e.00	e.00	.15	.00	.04
20	.14	7.3	23	6.0	21	25	.92	e.00	e.00	.57	.00	.91
21	.11	6.7	22	5.7	21	26	.89	e.00	e.00	.51	.00	2.1
22	.07	6.4	21	5.3	19	24	.77	e.00	e.00	1.3	.00	3.0
23	.05	5.9	19	6.3	21	23	.61	e.00	e.00	1.2	.00	4.0
24	.03	5.4	18	7.7	19	21	.48	e.00	e.00	1.2	.00	5.3
25	.01	5.0	17	7.5	18	20	.36	e.00	.00	1.1	.00	7.0
26	.01	4.6	18	7.2	17	19	.31	e.00	.00	.93	.00	7.5
27	.21	4.4	33	6.7	16	17	.28	e.00	.00	.79	.00	7.6
28	.41	4.1	36	6.2	16	15	.24	e.00	.00	.65	.00	7.1
29	.37	3.9	32	5.9	---	13	.22	e.00	.00	.50	.00	6.5
30	.34	3.9	29	5.6	---	11	.32	e.00	.00	.42	.00	5.6
31	1.3	---	26	5.3	---	9.8	---	e.00	---	.36	.00	---
TOTAL	16.33	168.1	624.7	324.7	289.0	436.3	71.05	2.43	0.00	10.14	0.80	56.67
MEAN	.53	5.60	20.2	10.5	10.3	14.1	2.37	.078	.000	.33	.026	1.89
MAX	2.0	14	38	24	21	26	8.7	.37	.00	1.3	.26	7.6
MIN	.01	2.1	3.5	5.3	3.5	4.8	.22	.00	.00	.00	.00	.00
AC-FT	32	333	1240	644	573	865	141	4.8	.00	20	1.6	112

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	1996	1997	1998	1996	1997	1998	1996	1997	1998	1996	1997	1998
MEAN	2.29	3.13	11.2	5.71	5.22	7.04	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	.66	2.21	.95	.11	.000	.014	.010	.000	.33	.026	.66
(WY)	1998	1997	1997	1997	1997	1997	1997	1997	1998	1998	1998	1997

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1996 - 1998	
ANNUAL TOTAL	1144.99		2000.22			
ANNUAL MEAN	3.14		5.48		3.49	
HIGHEST ANNUAL MEAN					5.48	
LOWEST ANNUAL MEAN					1.51	
HIGHEST DAILY MEAN	38	Dec 14	38	Dec 14	38	Dec 14 1997
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 24	.00	May 16	.00	Feb 24 1997
INSTANTANEOUS PEAK FLOW			39	Dec 13	39	Dec 13 1997
INSTANTANEOUS PEAK STAGE			84.05	Dec 14	84.05	Dec 14 1997
ANNUAL RUNOFF (AC-FT)	2270		3970		2530	
10 PERCENT EXCEEDS	7.9		18		10	
50 PERCENT EXCEEDS	.69		1.2		1.0	
90 PERCENT EXCEEDS	.00		.00		.00	

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN**

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 current year. 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, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	4.1	7.8	38	11	e24	e19	3.5	.08	.00	.23	.06
2	3.3	4.6	7.4	37	11	e22	e18	3.3	.06	.00	.17	.05
3	3.2	4.8	7.2	36	13	e21	e17	3.0	.04	.00	.13	.05
4	3.1	4.8	9.8	34	12	e19	e16	2.9	.03	.00	.09	.05
5	3.0	4.7	11	33	10	e17	e15	2.9	.02	.00	.07	.11
6	2.9	4.7	11	31	e9.0	e16	e15	2.8	.01	.00	.05	.12
7	2.7	4.7	11	30	e8.2	e15	e14	2.6	.01	.00	.04	.11
8	2.7	4.5	11	30	e7.7	e14	13	2.5	.00	.00	.05	.10
9	2.5	4.4	11	29	e7.0	e17	12	2.4	.00	.00	.06	.09
10	2.4	4.2	12	27	e6.4	e16	11	2.2	.00	.00	.04	.09
11	2.2	4.1	15	26	e6.0	e15	10	2.0	.00	.00	.03	.06
12	2.1	4.0	17	24	e5.7	e13	9.4	1.9	.00	.00	.01	.05
13	2.0	4.7	25	23	e5.2	e12	8.7	1.8	.00	.00	.01	.04
14	1.8	8.7	30	21	e5.0	e11	8.0	1.6	.00	.07	.01	.03
15	1.7	10	33	20	e5.2	e10	7.5	1.5	.00	.19	.00	.02
16	1.6	11	34	20	e8.0	e9.5	7.0	1.2	.00	.19	.00	.02
17	1.5	11	34	19	e12	e8.9	6.6	1.0	.00	.17	.00	.01
18	1.5	11	34	18	e12	e16	6.2	.89	.00	.15	.00	.05
19	1.6	11	34	17	e12	e27	5.7	.77	.00	.39	.09	.58
20	1.5	11	33	16	e16	e30	5.5	.65	.00	1.1	.20	2.1
21	1.3	10	32	15	e23	e32	5.4	.53	.00	1.2	.17	3.4
22	1.2	10	31	14	e23	e30	5.0	.42	.00	1.3	.16	3.8
23	1.0	10	30	15	e24	e29	4.6	.33	.00	1.2	.20	4.3
24	.91	9.7	29	15	e24	e28	4.2	.27	.00	1.1	.15	4.9
25	.86	9.3	28	15	e23	e27	3.9	.21	.00	.97	.13	6.2
26	.80	8.9	28	14	e23	e26	3.6	.17	.00	.83	.12	7.1
27	1.3	8.6	36	14	e22	e24	3.4	.14	.00	.69	.10	7.4
28	1.8	8.3	40	13	e23	e23	3.2	.14	.00	.58	.08	7.6
29	1.7	8.0	41	13	---	e22	3.0	.13	.00	.47	.13	7.6
30	1.7	7.9	41	12	---	e21	3.1	.12	.00	.38	.10	7.6
31	2.2	---	40	12	---	e20	---	.11	---	.30	.07	---
MEAN	1.98	7.42	24.7	22.0	13.1	19.9	8.80	1.42	.008	.36	.087	2.12
MAX	3.4	11	41	38	24	32	19	3.5	.08	1.3	.23	7.6
MIN	.80	4.0	7.2	12	5.0	8.9	3.0	.11	.00	.00	.00	.01

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	1996	1997	1998	1996	1997	1998	1996	1997	1998	1996	1997	1998
MEAN	4.11	4.86	13.8	12.1	7.17	10.0	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	2.30	2.95	2.30	1.21	.19	.077	.13	.008	.36	.087	2.12
(WY)	1998	1997	1997	1997	1997	1997	1997	1997	1998	1998	1998	1998

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1996 - 1998
ANNUAL MEAN	4.91	8.49	5.75
HIGHEST ANNUAL MEAN			8.49
LOWEST ANNUAL MEAN			3.00
HIGHEST DAILY MEAN	41 Dec 29	41 Dec 29	41 Dec 29 1997
LOWEST DAILY MEAN	.00 Many Days	.00 Many Days	.00 Many Days
ANNUAL SEVEN-DAY MINIMUM	.00 Apr 7	.00 Jun 8	.00 Apr 7 1997
INSTANTANEOUS PEAK FLOW		41 Dec 29	41 Dec 29 1997
INSTANTANEOUS PEAK STAGE		84.90 Dec 29	84.90 Dec 29 1997
10 PERCENT EXCEEDS	11	26	15
50 PERCENT EXCEEDS	2.4	4.0	3.2
90 PERCENT EXCEEDS	.03	.00	.02

LOCATION.--Lat 28°05'31", long 81°52'05", in NW¹/₄ 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.

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 27.01 ft, Dec. 27; minimum, 24.56 ft, July 7.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.64	25.80	26.12	26.83	26.28	26.69	26.57	25.76	25.28	24.70	25.47	25.23
2	25.62	25.78	26.09	26.81	26.29	26.65	26.54	25.73	25.26	24.68	25.47	25.23
3	25.60	25.78	26.07	26.80	26.35	26.63	26.51	25.71	25.25	24.65	25.45	25.22
4	25.59	25.77	26.23	26.78	26.31	26.61	26.48	25.69	25.23	24.62	25.44	25.23
5	25.59	25.77	26.22	26.76	26.29	26.60	26.45	25.69	25.21	24.60	25.43	25.28
6	25.60	25.77	26.19	26.75	26.28	26.58	26.41	25.69	25.20	24.58	25.42	25.29
7	25.59	25.79	26.19	26.73	26.28	26.56	26.38	25.67	25.18	24.58	25.42	25.27
8	25.59	25.79	26.19	26.76	26.26	26.54	26.35	25.66	25.16	24.59	25.42	25.26
9	25.58	25.79	26.20	26.74	26.25	26.62	26.32	25.64	25.15	24.59	25.44	25.26
10	25.58	25.79	26.27	26.71	26.24	26.56	26.28	25.63	25.17	24.59	25.42	25.25
11	25.57	25.80	26.36	26.68	26.23	26.54	26.24	25.61	25.16	24.58	25.40	25.24
12	25.56	25.80	26.41	26.66	26.22	26.52	26.21	25.59	25.14	24.68	25.38	25.23
13	25.55	25.88	26.61	26.63	26.21	26.50	26.18	25.57	25.12	24.94	25.36	25.21
14	25.55	26.15	26.69	26.61	26.20	26.48	26.16	25.55	25.10	25.21	25.35	25.21
15	25.53	26.14	26.71	26.59	26.19	26.46	26.13	25.53	25.07	25.36	25.33	25.21
16	25.53	26.13	26.73	26.57	26.34	26.43	26.10	25.51	25.05	25.37	25.32	25.20
17	25.51	26.15	26.74	26.54	26.39	26.41	26.07	25.49	25.02	25.37	25.35	25.20
18	25.52	26.17	26.75	26.51	26.38	26.38	26.04	25.47	25.00	25.36	25.33	25.22
19	25.53	26.18	26.75	26.49	26.41	26.59	26.01	25.45	24.98	25.39	25.34	25.40
20	25.51	26.19	26.75	26.46	26.59	26.74	25.99	25.44	24.96	25.48	25.32	25.60
21	25.50	26.20	26.74	26.44	26.57	26.73	25.98	25.42	24.92	25.48	25.30	25.73
22	25.48	26.20	26.73	26.42	26.58	26.72	25.94	25.40	24.90	25.51	25.29	25.70
23	25.47	26.20	26.71	26.44	26.65	26.72	25.90	25.39	24.87	25.51	25.30	25.71
24	25.46	26.19	26.70	26.43	26.64	26.73	25.87	25.37	24.84	25.51	25.29	25.76
25	25.46	26.18	26.69	26.40	26.64	26.73	25.84	25.35	24.82	25.51	25.28	25.88
26	25.45	26.17	26.69	26.38	26.63	26.72	25.81	25.33	24.80	25.51	25.27	25.96
27	25.51	26.16	26.93	26.37	26.63	26.70	25.79	25.32	24.78	25.51	25.26	26.00
28	25.56	26.15	26.93	26.35	26.63	26.68	25.76	25.32	24.77	25.50	25.25	26.05
29	25.54	26.14	26.88	26.33	---	26.67	25.73	25.32	24.75	25.50	25.27	26.09
30	25.52	26.13	26.86	26.32	---	26.64	25.74	25.30	24.72	25.49	25.26	26.12
31	25.61	---	26.84	26.30	---	26.60	---	25.29	---	25.48	25.24	

CAL YR 1997	MEAN 25.98	MAX 26.93	MIN 25.36
WTR YR 1998	MEAN 25.85	MAX 26.93	MIN 24.58

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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

LOCATION.--Lat 28°05'31", long 81°52'05", in NW¹/₄ 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 current year. 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, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	8.3	15	54	25	48	42	8.4	1.6	.11	3.1	.95
2	5.4	8.0	14	53	25	46	40	7.8	1.4	.11	2.9	.90
3	5.2	7.9	14	51	28	44	38	7.4	1.2	.12	2.8	.90
4	5.1	7.8	21	50	27	43	36	7.2	1.0	.11	2.7	.97
5	5.1	7.7	20	49	26	41	34	7.2	.89	.10	2.5	1.3
6	5.2	7.8	19	49	25	41	33	7.0	.75	.10	2.4	1.5
7	4.9	8.0	18	48	25	40	31	6.8	.67	.11	2.3	1.4
8	4.9	8.1	18	50	24	38	30	6.6	.39	.10	2.4	1.3
9	4.7	8.1	19	49	24	44	28	6.4	.38	.08	2.4	1.3
10	4.6	8.1	22	47	23	41	26	6.3	.46	.09	2.2	1.2
11	4.5	8.2	28	45	23	39	24	6.0	.42	.08	2.1	1.2
12	4.5	8.2	31	44	22	37	22	5.8	.49	.10	2.0	1.1
13	4.4	10	47	42	22	36	20	5.3	.42	.12	1.8	1.0
14	4.3	18	55	41	22	35	19	5.1	.44	.58	1.7	1.0
15	4.2	17	54	41	21	33	18	4.8	.44	2.4	1.5	1.0
16	4.0	16	51	40	30	32	17	4.5	.46	2.5	1.4	1.1
17	3.9	16	50	38	37	30	16	4.1	.46	2.3	1.7	1.0
18	4.1	17	49	36	33	29	15	3.8	.42	2.1	1.6	1.3
19	4.2	18	49	35	33	44	13	3.5	.41	2.3	1.6	3.6
20	3.9	19	48	33	44	59	13	3.2	.36	3.4	1.6	7.0
21	3.7	19	47	32	43	58	13	2.9	.39	3.6	1.4	9.3
22	3.5	19	47	31	42	54	12	2.7	.33	4.0	1.3	8.3
23	3.4	19	46	33	46	53	11	2.3	.25	3.7	1.4	8.1
24	3.3	19	45	33	45	52	10	2.2	.21	3.6	1.3	9.1
25	3.2	18	45	30	44	51	9.7	2.1	.21	3.6	1.2	12
26	3.1	17	45	29	44	50	9.2	1.9	.21	3.6	1.2	15
27	4.1	17	62	29	43	49	8.8	1.8	.19	3.6	1.0	15
28	4.8	16	65	28	43	48	8.2	1.7	.17	3.4	.98	16
29	4.4	16	61	27	---	47	7.7	1.7	.14	3.4	1.1	17
30	4.3	16	58	26	---	45	8.0	1.7	.12	3.3	.96	18
31	5.6	---	55	25	---	44	---	1.7	---	3.1	.89	---
MEAN	4.39	13.4	39.3	39.3	31.8	43.6	20.4	4.51	.51	1.80	1.79	5.29
MAX	5.7	19	65	54	46	59	42	8.4	1.6	4.0	3.1	18
MIN	3.1	7.7	14	25	21	29	7.7	1.7	.12	.08	.89	.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	1996	1997	1998	1996	1997	1998	1996	1997	1998	1996	1997	1998
MEAN	8.31	8.98	22.4	21.5	16.9	22.0	10.4	2.77	3.30	5.91	13.9	7.30
MAX	12.2	13.4	39.3	39.3	31.8	43.6	20.4	4.51	6.09	10.0	21.1	11.1
(WY)	1997	1998	1998	1998	1998	1998	1998	1998	1997	1997	1997	1996
MIN	4.39	4.51	5.49	3.73	2.14	.39	.41	1.02	.51	1.80	1.79	5.29
(WY)	1998	1997	1997	1997	1997	1997	1997	1997	1998	1998	1998	1998

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1996 - 1998
ANNUAL MEAN	9.05	17.1	11.6
HIGHEST ANNUAL MEAN			17.1
LOWEST ANNUAL MEAN			6.11
HIGHEST DAILY MEAN	65 Dec 28	65 Dec 28	65 Dec 28 1997
LOWEST DAILY MEAN	.03 Mar 13	.08 Jul 9	.03 Mar 13 1997
ANNUAL SEVEN-DAY MINIMUM	.04 Apr 2	.09 Jul 5	.04 Apr 2 1997
INSTANTANEOUS PEAK FLOW		68 Dec 27	68 Dec 27 1997
INSTANTANEOUS PEAK STAGE		26.31 Dec 27	26.31 Dec 27 1997
10 PERCENT EXCEEDS	22	46	35
50 PERCENT EXCEEDS	4.6	8.1	6.5
90 PERCENT EXCEEDS	.15	.54	.33

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.13	23.36	23.86	25.77	24.43	25.52	25.15	23.46	22.99	22.76	23.12	22.92
2	23.10	23.34	23.81	25.72	24.44	25.43	25.06	23.42	22.97	22.76	23.11	22.91
3	23.09	23.33	23.77	25.67	24.62	25.35	24.96	23.39	22.95	22.76	23.11	22.91
4	23.08	23.32	24.21	25.63	24.55	25.30	24.86	23.38	22.93	22.76	23.09	22.93
5	23.08	23.32	24.20	25.59	24.49	25.25	24.76	23.38	22.92	22.75	23.08	22.99
6	23.09	23.33	24.09	25.56	24.47	25.21	24.66	23.37	22.90	22.75	23.07	23.01
7	23.06	23.35	24.06	25.53	24.46	25.16	24.58	23.35	22.89	22.75	23.07	23.00
8	23.06	23.35	24.05	25.61	24.42	25.10	24.50	23.33	22.85	22.75	23.08	22.98
9	23.05	23.35	24.10	25.56	24.39	25.34	24.43	23.32	22.84	22.74	23.09	22.98
10	23.04	23.35	24.30	25.49	24.36	25.22	24.34	23.31	22.86	22.74	23.07	22.97
11	23.03	23.36	24.59	25.42	24.34	25.13	24.25	23.30	22.85	22.74	23.06	22.97
12	23.03	23.36	24.78	25.35	24.31	25.06	24.18	23.28	22.86	22.75	23.05	22.95
13	23.02	23.50	25.48	25.29	24.28	25.00	24.11	23.24	22.85	22.75	23.03	22.93
14	23.01	24.08	25.82	25.23	24.26	24.94	24.05	23.23	22.85	22.82	23.02	22.94
15	23.00	23.98	25.76	25.22	24.24	24.87	23.99	23.21	22.85	23.00	23.00	22.94
16	22.99	23.92	25.66	25.20	24.70	24.80	23.93	23.19	22.86	23.02	23.00	22.95
17	22.98	23.94	25.61	25.10	25.04	24.73	23.87	23.17	22.86	23.01	23.03	22.94
18	22.99	23.99	25.58	25.03	24.88	24.67	23.82	23.14	22.85	22.99	23.02	22.96
19	23.00	24.05	25.55	24.96	24.84	25.36	23.76	23.12	22.85	23.02	23.03	23.12
20	22.98	24.09	25.53	24.88	25.36	25.97	23.72	23.10	22.84	23.11	23.03	23.35
21	22.96	24.11	25.50	24.83	25.33	25.93	23.71	23.08	22.84	23.13	23.01	23.52
22	22.95	24.11	25.48	24.77	25.29	25.76	23.66	23.06	22.83	23.16	22.99	23.45
23	22.93	24.11	25.44	24.84	25.44	25.67	23.61	23.04	22.82	23.15	23.00	23.44
24	22.92	24.08	25.40	24.84	25.40	25.64	23.58	23.03	22.81	23.15	22.98	23.51
25	22.91	24.04	25.38	24.74	25.37	25.60	23.54	23.03	22.81	23.15	22.97	23.72
26	22.91	24.01	25.41	24.68	25.35	25.56	23.51	23.01	22.81	23.15	22.96	23.86
27	22.99	23.97	26.07	24.65	25.32	25.52	23.48	23.00	22.80	23.15	22.94	23.90
28	23.05	23.93	26.20	24.60	25.33	25.47	23.45	22.99	22.79	23.14	22.93	23.93
29	23.02	23.90	26.02	24.56	---	25.42	23.41	22.99	22.78	23.14	22.94	23.98
30	23.01	23.90	25.91	24.52	---	25.33	23.43	23.00	22.76	23.14	22.93	24.06
31	23.13	---	25.82	24.48	---	25.24	---	22.99	---	23.13	22.91	---
MEAN	23.02	23.73	25.08	25.14	24.78	25.31	24.08	23.19	22.86	22.95	23.02	23.23
MAX	23.13	24.11	26.20	25.77	25.44	25.97	25.15	23.46	22.99	23.16	23.12	24.06
MIN	22.91	23.32	23.77	24.48	24.24	24.67	23.41	22.99	22.76	22.74	22.91	22.91

WTR YR 1998 MEAN 23.86 MAX 26.20 MIN 22.74

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

280441081520200 TENOROC DITCH (SITE 17B) NEAR LAKE LAND, 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 current year. 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, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	16	17	64	26	61	42	12	1.6	.21	3.9	2.0
2	7.4	14	16	60	26	57	40	11	1.5	.17	3.8	1.7
3	6.8	12	15	57	37	52	39	9.8	1.2	.14	3.8	1.7
4	6.5	10	31	55	35	49	37	9.3	1.0	.11	3.5	1.7
5	6.3	9.5	36	54	32	47	35	9.2	.91	.10	3.2	1.8
6	7.1	9.1	28	53	29	45	33	9.3	.77	.10	3.1	2.0
7	6.6	9.3	23	52	29	43	31	9.0	.66	.16	3.0	2.0
8	6.4	9.2	21	54	28	42	30	8.8	.63	.41	3.1	1.9
9	6.1	9.0	21	55	27	54	28	8.4	.61	.42	3.9	1.8
10	5.6	8.8	28	52	26	50	27	8.2	.83	.47	3.5	1.8
11	5.4	8.8	45	50	25	46	25	7.8	.69	.47	3.1	1.6
12	5.3	8.9	51	48	25	42	23	7.5	.59	1.1	2.9	1.4
13	5.2	13	84	46	24	40	22	7.2	.51	4.3	2.6	1.3
14	4.8	40	97	44	24	38	21	7.0	.46	7.5	2.3	1.1
15	4.6	34	87	43	24	37	19	6.7	.42	8.8	2.2	1.1
16	4.4	25	75	44	54	35	18	6.2	.38	6.2	2.1	1.1
17	4.1	21	66	41	72	34	17	5.6	.37	3.8	2.5	1.0
18	4.1	19	61	39	57	32	17	5.1	.36	2.7	2.3	1.2
19	4.5	19	58	37	48	70	16	4.7	.31	2.6	2.1	5.6
20	4.1	19	55	36	69	100	15	4.3	.31	7.3	2.2	14
21	3.7	19	53	34	65	94	15	3.9	.29	6.7	2.2	19
22	3.5	20	52	33	58	80	14	3.6	.28	6.8	2.0	16
23	3.2	20	50	36	59	69	13	3.2	.25	5.7	2.1	14
24	3.0	19	49	39	57	62	12	2.8	.23	5.0	1.9	23
25	2.9	19	48	36	53	58	12	2.6	.22	4.6	1.7	35
26	2.7	18	49	33	51	55	11	2.4	.21	4.4	1.7	32
27	3.8	18	94	32	49	53	11	2.4	.24	4.3	1.6	24
28	6.8	17	101	30	49	51	10	2.2	.24	4.2	1.4	20
29	5.8	17	87	29	---	49	9.8	1.9	.23	4.2	1.9	19
30	4.9	17	76	28	---	47	10	1.9	.22	4.2	1.8	19
31	6.6	---	69	27	---	45	---	1.8	---	4.0	2.4	---
MEAN	5.17	16.6	53.0	43.3	41.4	52.8	21.8	5.99	.55	3.26	2.57	8.96
MAX	8.2	40	101	64	72	100	42	12	1.6	8.8	3.9	35
MIN	2.7	8.8	15	27	24	32	9.8	1.8	.21	.10	1.4	1.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	1996	1997	1998	1996	1997	1998	1996	1997	1998	1996	1997	1998
MEAN	8.46	10.7	30.2	24.0	22.0	27.0	11.5	3.78	5.01	8.38	18.7	9.50
MAX	11.7	16.6	53.0	43.3	41.4	52.8	21.8	5.99	9.47	13.5	28.3	11.9
(WY)	1997	1998	1998	1998	1998	1998	1998	1998	1997	1997	1997	1996
MIN	5.17	4.79	7.48	4.80	2.59	1.19	1.19	1.56	.55	3.26	2.57	7.62
(WY)	1998	1997	1997	1997	1997	1997	1997	1997	1998	1998	1998	1997

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1996 - 1998
ANNUAL MEAN	12.2	21.2	14.6
HIGHEST ANNUAL MEAN			21.2
LOWEST ANNUAL MEAN			7.92
HIGHEST DAILY MEAN	101 Dec 28	101 Dec 28	101 Dec 28 1997
LOWEST DAILY MEAN	.24 Apr 11	.10 Jul 5	.10 Jul 5 1998
ANNUAL SEVEN-DAY MINIMUM	.30 Apr 7	.14 Jul 1	.14 Jul 1 1998
INSTANTANEOUS PEAK FLOW		113 Dec 27	113 Dec 27 1997
INSTANTANEOUS PEAK STAGE		87.45 Dec 27	87.45 Dec 27 1997
10 PERCENT EXCEEDS	31	54	42
50 PERCENT EXCEEDS	.61	10	7.8
90 PERCENT EXCEEDS	.80	.88	.91

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

59

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 current year. 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 fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	7.8	3.8	59	8.8	38	11	e.44	.05	.06	.11	.21
2	8.7	9.9	3.4	47	9.1	38	9.3	e.31	.04	.05	.11	.23
3	8.4	11	3.1	40	17	33	8.0	e.28	.04	.05	.11	.27
4	7.7	11	16	32	20	29	7.0	e.28	.04	.05	.10	.32
5	6.9	10	25	27	18	25	6.3	e.25	.04	.11	.09	.47
6	6.4	9.7	24	22	16	21	5.7	e.20	.04	.04	.09	.55
7	5.6	9.0	21	19	15	19	5.0	e.18	.04	.06	.09	.57
8	5.0	8.1	18	21	13	16	4.5	e.12	.04	.06	.16	.60
9	4.3	7.1	16	23	12	21	4.1	e.11	.19	.05	.12	.68
10	3.6	6.3	20	22	10	19	3.7	e.11	.13	.05	.09	.70
11	3.0	5.6	33	19	9.5	17	3.2	e.09	.04	.04	.08	.64
12	2.5	5.1	46	16	8.7	15	2.7	e.09	.04	.33	.07	.57
13	2.1	7.2	85	14	8.0	13	2.4	e.09	.04	.41	.08	.49
14	1.6	25	98	13	7.6	11	2.1	e.08	.05	.54	.08	.44
15	1.3	30	92	12	7.4	9.6	1.9	e.08	.05	.54	.08	.45
16	1.1	27	83	13	22	8.6	1.7	e.08	.05	.20	.24	.40
17	.95	23	74	12	37	7.8	1.5	e.07	.05	.12	.27	.39
18	.94	20	66	11	38	7.0	1.3	e.07	.04	.10	.11	.50
19	.89	17	55	10	34	31	1.2	e.07	.04	.14	.17	1.1
20	.70	15	45	9.3	64	73	1.1	.39	.05	.22	.24	4.5
21	.58	13	37	8.7	66	77	e1.0	.06	.04	.14	.33	8.2
22	.50	11	31	8.2	62	72	e.85	.06	.05	.12	.38	10
23	.41	9.5	25	12	61	65	e.81	.06	.04	.10	.44	14
24	.33	8.3	21	17	55	56	e.77	.06	.04	.09	.38	18
25	.25	7.1	18	17	46	44	e.73	.06	.04	.11	.39	24
26	.20	6.2	19	16	39	37	e.62	.04	.04	.12	.39	31
27	.76	5.5	66	15	33	30	e.55	.05	.05	.14	.32	33
28	.96	4.9	84	13	30	24	e.48	.06	.05	.16	.29	31
29	.89	4.3	81	12	---	19	e.40	.05	.05	.16	.30	28
30	.92	4.0	75	11	---	16	e.55	.05	.05	.13	.26	25
31	2.7	---	67	9.6	---	13	---	.05	---	.11	.23	---
MEAN	2.86	11.3	43.6	18.7	27.4	29.2	3.02	.13	.052	.15	.20	7.88
MAX	8.7	30	98	59	66	77	11	.44	.19	.54	.44	33
MIN	.20	4.0	3.1	8.2	7.4	7.0	.40	.04	.04	.04	.07	.21

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	1996	1997	1998	1996	1997	1998	1996	1997	1998	1996	1997	1998
MEAN	5.97	5.79	22.0	9.44	13.7	14.6	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	.46	.14	.083	.065	.097	.026	.052	.15	.20	1.10
(WY)	1998	1997	1997	1997	1997	1997	1997	1997	1998	1998	1998	1997

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1996 - 1998
ANNUAL MEAN	6.44	12.0	7.19
HIGHEST ANNUAL MEAN			12.0
LOWEST ANNUAL MEAN			2.40
HIGHEST DAILY MEAN	98 Dec 14	98 Dec 14	98 Dec 14 1997
LOWEST DAILY MEAN	.01 May 15	.04 May 26	.01 May 15 1997
ANNUAL SEVEN-DAY MINIMUM	.01 May 15	.04 Jun 2	.01 May 15 1997
INSTANTANEOUS PEAK FLOW		101 Dec 14	101 Dec 14 1997
INSTANTANEOUS PEAK STAGE		86.31 Dec 14	86.31 Dec 14 1997
10 PERCENT EXCEEDS	18	35	21
50 PERCENT EXCEEDS	.44	3.1	.82
90 PERCENT EXCEEDS	.02	.05	.04

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

02294217 SADDLE CREEK AT STATE HIGHWAY 542 NEAR LAKE LAND, 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 mi², 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	55	40	340	86	287	167	23	3.4	.89	9.2	.93
2	99	46	36	308	82	287	156	21	3.1	.71	8.4	.90
3	77	40	34	288	135	269	146	19	2.9	.68	7.9	1.0
4	52	61	100	270	171	250	138	18	2.6	.66	7.3	1.1
5	39	84	175	254	182	233	130	18	2.4	.63	6.9	1.0
6	32	96	190	241	179	220	122	17	2.3	.63	6.5	1.0
7	26	103	193	230	175	208	114	16	2.1	1.1	6.4	1.1
8	24	104	186	236	168	198	107	15	1.9	1.2	6.5	1.1
9	21	101	180	247	157	247	102	14	1.9	1.4	7.3	1.1
10	18	95	202	238	139	250	93	14	2.9	1.5	7.3	1.1
11	15	72	260	227	117	228	79	13	2.9	1.6	6.5	1.1
12	14	45	e315	216	100	208	68	12	3.1	2.4	5.9	1.0
13	13	59	e421	204	85	192	61	11	2.6	5.4	5.4	.95
14	13	163	597	190	77	178	56	10	2.3	32	4.9	.95
15	16	213	561	179	68	166	49	9.7	2.2	85	4.6	1.1
16	14	197	482	180	158	155	42	9.0	2.0	55	4.2	1.1
17	12	176	413	172	293	146	37	8.2	1.9	32	2.6	1.1
18	13	172	359	163	302	140	33	7.8	1.8	22	2.1	1.7
19	13	168	320	153	283	265	30	7.2	1.7	26	1.6	37
20	11	160	296	147	368	503	28	6.6	1.6	47	1.3	111
21	8.7	136	277	140	392	516	29	6.0	1.4	33	1.1	160
22	7.2	112	261	127	349	442	26	5.5	1.3	28	1.8	158
23	4.0	92	246	124	351	369	23	5.2	1.2	24	3.1	171
24	3.6	76	234	137	327	315	21	4.8	1.1	21	2.1	267
25	4.2	63	224	127	298	284	20	4.5	1.0	18	1.6	373
26	5.7	55	223	116	276	258	18	4.1	.96	16	1.4	418
27	8.3	51	e240	116	259	236	17	4.0	.82	14	1.2	346
28	10	48	e480	122	255	218	16	4.0	.81	13	1.1	288
29	8.2	43	e491	121	---	204	15	4.0	.78	12	1.2	255
30	10	41	e441	110	---	192	18	3.7	.77	11	1.1	230
31	17	---	392	97	---	179	---	3.6	---	9.8	.98	---
TOTAL	714.9	2927	8869	5820	5832	7843	1961	318.9	57.74	517.60	129.48	2833.33
MEAN	23.1	97.6	286	188	208	253	65.4	10.3	1.92	16.7	4.18	94.4
MAX	106	213	597	340	392	516	167	23	3.4	85	9.2	418
MIN	3.6	40	34	97	68	140	15	3.6	.77	.63	.98	.90
AC-FT	1420	5810	17590	11540	11570	15560	3890	633	115	1030	257	5620
CFSM	.44	1.84	5.40	3.54	3.93	4.77	1.23	.19	.04	.32	.08	1.78
IN.	.50	2.05	6.23	4.08	4.09	5.50	1.38	.22	.04	.36	.09	1.99

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1998, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	30.3	42.5	104	69.0	76.0	106	43.9	15.2	12.4	38.0	62.6	81.1
MAX	59.5	97.6	286	188	208	253	94.6	45.9	32.1	99.9	115	219
(WY)	1997	1998	1998	1998	1998	1998	1987	1987	1997	1997	1997	1988
MIN	8.23	10.9	12.4	7.97	5.21	1.98	2.01	2.26	.73	13.1	4.18	17.2
(WY)	1988	1997	1988	1997	1997	1997	1997	1997	1988	1988	1998	1987

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1987 - 1998
ANNUAL TOTAL	21375.82	37823.95	
ANNUAL MEAN	58.6	104	58.3
HIGHEST ANNUAL MEAN			104
LOWEST ANNUAL MEAN			31.4
HIGHEST DAILY MEAN	597	597	597
LOWEST DAILY MEAN	.41	.63	.00
ANNUAL SEVEN-DAY MINIMUM	.50	.71	.01
INSTANTANEOUS PEAK FLOW		609	609
INSTANTANEOUS PEAK STAGE		16.63	16.63
ANNUAL RUNOFF (AC-FT)	42400	75020	42200
ANNUAL RUNOFF (CFSM)	1.10	1.96	1.10
ANNUAL RUNOFF (INCHES)	15.00	26.55	14.93
10 PERCENT EXCEEDS	186	283	175
50 PERCENT EXCEEDS	11	40	17
90 PERCENT EXCEEDS	1.3	1.2	1.4

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

61

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

LOCATION.--Lat 27°56'17", long 81°51'05", in SW¹/₄ 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 mi².

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 fair. Flow regulated by structure P-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	.61	131	816	295	751	585	102	.74	e.36	75	2.0
2	97	1.6	80	793	263	751	561	101	.69	e.30	75	1.7
3	97	95	79	772	252	734	529	98	.58	e.24	33	1.8
4	95	278	184	752	251	723	499	98	.59	e.18	3.1	2.2
5	93	278	254	728	265	699	485	97	.46	e.12	2.8	2.3
6	136	273	254	701	283	678	459	96	.38	e.06	2.0	2.8
7	164	272	254	669	285	652	357	93	.34	e.00	1.9	6.5
8	164	269	254	660	285	619	301	94	.33	.00	2.3	5.4
9	104	265	254	661	284	630	251	94	.33	.00	2.2	5.6
10	63	208	255	641	282	627	162	90	.33	.07	1.9	6.1
11	62	168	260	621	296	615	157	89	.30	.09	1.8	6.1
12	59	104	295	599	305	601	154	90	.30	.09	1.9	6.4
13	25	108	481	576	303	576	188	88	.30	.08	3.3	5.5
14	1.9	205	612	557	301	554	204	89	.28	.92	3.3	4.6
15	.88	173	673	536	297	531	202	90	.26	.13	2.7	5.1
16	.85	176	716	519	316	508	125	88	.17	.06	3.0	7.0
17	1.5	250	736	505	377	485	71	87	.08	.06	2.0	8.1
18	1.6	300	740	483	509	461	66	35	.08	.06	2.3	11
19	1.1	300	732	460	579	505	64	4.4	.08	1.0	2.3	17
20	1.3	249	717	449	659	580	62	3.5	.08	.07	2.2	34
21	1.1	222	699	368	707	654	110	3.0	.08	.08	1.8	247
22	8.6	221	677	311	730	711	148	2.8	.07	39	1.9	449
23	14	220	658	314	725	750	114	2.5	.07	69	1.5	452
24	3.2	220	632	319	724	769	57	2.7	1.8	67	1.6	473
25	1.5	217	612	319	724	767	54	2.7	.08	72	1.6	499
26	1.6	214	604	327	715	753	53	1.7	.09	72	1.7	523
27	1.6	212	658	322	701	727	27	1.1	.72	74	1.8	523
28	.96	210	739	309	713	700	7.2	.95	.21	71	2.6	570
29	.73	206	781	307	---	676	8.1	.86	.17	71	2.1	638
30	.34	204	812	303	---	647	40	.86	.38	73	2.2	627
31	2.1	---	818	300	---	613	---	.80	---	76	2.1	---
TOTAL	1360.86	6119.21	15651	15997	12426	20047	6100.3	1646.87	10.37	687.97	244.9	5142.2
MEAN	43.9	204	505	516	444	647	203	53.1	.35	22.2	7.90	171
MAX	164	300	818	816	730	769	585	102	1.8	76	75	638
MIN	.34	.61	79	300	251	461	7.2	.80	.07	.00	1.5	1.7

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	64.2	31.5	37.1	60.1	66.1	72.2	52.0	18.3	34.9	75.9	121	115																						
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1965 - 1998
ANNUAL TOTAL	36692.84	85433.68	
ANNUAL MEAN	101	234	62.4
HIGHEST ANNUAL MEAN			234
LOWEST ANNUAL MEAN			.25
HIGHEST DAILY MEAN	818 Dec 31	818 Dec 31	831 Aug 5 1995
LOWEST DAILY MEAN	.00 Many Days	.00 Jul 7,8,9	.00 Many Days
ANNUAL SEVEN-DAY MINIMUM	.00 Mar 18	.04 Jul 6	.00 Apr 28 1965
INSTANTANEOUS PEAK FLOW		830 Dec 30	894 Aug 15 1995
INSTANTANEOUS PEAK STAGE		15.73 Dec 30	15.90 Aug 15 1995
10 PERCENT EXCEEDS	390	686	225
50 PERCENT EXCEEDS	.20	98	.79
90 PERCENT EXCEEDS	.00	.33	.00

LOCATION.--Lat 27°54'07", long 81°49'03", in NE¹/₄ 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 mi².

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.

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 ft³/s.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	109	313	1480	791	1990	1280	158	16	16	121	35
2	193	119	230	1460	775	1960	1210	155	17	6.0	115	38
3	173	172	203	1420	798	1900	1140	148	15	5.4	95	45
4	164	341	242	1390	776	1820	1070	142	16	5.3	56	50
5	155	374	348	1350	784	1730	1020	134	13	7.7	47	57
6	164	377	369	1300	825	1640	981	133	14	6.6	45	59
7	201	372	375	1250	841	1550	901	134	9.8	10	41	64
8	205	365	377	1250	834	1460	778	140	8.5	9.4	36	62
9	181	350	376	1230	819	1460	722	144	11	27	36	60
10	117	321	385	1190	808	1410	592	144	15	31	34	58
11	104	251	411	1160	800	1370	543	141	9.0	32	32	55
12	97	212	443	1110	806	1330	521	139	7.8	49	30	50
13	81	176	698	1080	792	1270	517	139	6.9	58	28	47
14	47	319	916	1050	784	1210	541	134	6.3	88	26	43
15	39	307	1090	1030	772	1150	525	128	6.0	124	25	43
16	34	331	1260	1020	883	1100	470	122	5.7	118	25	44
17	31	379	1360	984	1000	1050	356	116	5.8	118	33	45
18	30	483	1420	963	1170	1000	333	95	5.2	113	33	57
19	29	507	1440	935	1380	1140	319	49	4.6	111	35	221
20	26	490	1430	916	1780	1430	302	37	4.5	114	37	313
21	24	434	1410	864	1920	1600	300	33	4.0	115	38	432
22	21	423	1360	759	2040	1750	334	28	4.3	124	40	747
23	31	420	1300	790	2110	1870	310	25	4.8	140	40	815
24	20	415	1240	819	2010	1910	236	21	4.2	141	41	915
25	16	408	1190	824	1980	1890	207	19	3.8	140	37	1030
26	15	396	1160	846	1980	1830	187	17	3.8	137	29	1270
27	37	386	1300	875	1910	1740	162	18	7.3	134	25	1470
28	58	373	1370	848	1900	1650	129	20	7.4	131	25	1610
29	62	360	1420	833	---	1560	121	19	5.8	128	42	1660
30	62	349	1460	822	---	1470	123	18	11	126	28	1640
31	82	---	1480	809	---	1380	---	17	---	124	39	---
TOTAL	2790	10319	28376	32657	34068	47620	16230	2767	253.5	2489.4	1314	13035
MEAN	90.0	344	915	1053	1217	1536	541	89.3	8.45	80.3	42.4	435
MAX	291	507	1480	1480	2110	1990	1280	158	17	141	121	1660
MIN	15	109	203	759	772	1000	121	17	3.8	5.3	25	30

MEAN	312	146	136	176	195	237	184	90.7	151	284	395	449
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	13.9	9.68	6.45	7.39	18.4	17.5	37.4
(WY)	1991	1991	1991	1991	1991	1991	1976	1990	1989	1981	1989	1990

WATER YEARS 1940 - 1998

ANNUAL TOTAL	73738.7		191918.9				
ANNUAL MEAN	202		526		230		
HIGHEST ANNUAL MEAN					814		1960
LOWEST ANNUAL MEAN					35.2		1985
HIGHEST DAILY MEAN	1480	Dec 31	2110	Feb 23	4100	Sep 24	1947
LOWEST DAILY MEAN	6.3	Jun 9	3.8	Jun 25	1.2	Apr 26	1968
ANNUAL SEVEN-DAY MINIMUM	8.1	Jun 5	4.2	Jun 20	2.3	Apr 25	1968
INSTANTANEOUS PEAK FLOW			2140	Feb 23	4140	Sep 24	1947
INSTANTANEOUS PEAK STAGE			9.03	Feb 23	11.01	Sep 13	1960
10 PERCENT EXCEEDS	592		1450		608		
50 PERCENT EXCEEDS	37		212		109		
90 PERCENT EXCEEDS	14		16		19		

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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02294650 PEACE RIVER AT BARTOW, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.32	5.18	6.40	8.45	7.56	8.91	8.24	5.65	3.14	3.09	5.30	3.72
2	5.86	5.31	6.05	8.42	7.53	8.89	8.17	5.63	3.19	2.74	5.22	3.80
3	5.75	5.69	5.92	8.39	7.57	8.83	8.09	5.59	3.11	2.71	4.88	3.96
4	5.69	6.51	6.10	8.35	7.53	8.76	8.01	5.55	3.14	2.70	4.14	4.06
5	5.64	6.61	6.53	8.31	7.55	8.69	7.94	5.49	3.02	2.82	3.96	4.21
6	5.69	6.62	6.59	8.26	7.62	8.60	7.88	5.47	3.06	2.77	3.93	4.26
7	5.91	6.61	6.61	8.21	7.65	8.51	7.75	5.49	2.91	2.89	3.84	4.35
8	5.93	6.58	6.62	8.21	7.64	8.42	7.54	5.53	2.86	2.89	3.74	4.31
9	5.78	6.54	6.62	8.19	7.61	8.43	7.43	5.56	2.95	3.37	3.73	4.28
10	5.29	6.43	6.64	8.15	7.59	8.37	7.17	5.56	3.08	3.56	3.69	4.24
11	5.11	6.16	6.72	8.11	7.57	8.33	7.06	5.54	2.88	3.56	3.64	4.17
12	5.00	5.96	6.80	8.07	7.59	8.29	7.01	5.53	2.83	3.98	3.59	4.07
13	4.75	5.75	7.38	8.02	7.56	8.23	7.00	5.53	2.78	4.18	3.54	4.00
14	4.11	6.43	7.77	7.98	7.55	8.17	7.05	5.48	2.76	4.72	3.49	3.92
15	3.92	6.39	8.03	7.96	7.52	8.11	7.02	5.40	2.74	5.35	3.46	3.92
16	3.81	6.47	8.22	7.93	7.72	8.05	6.87	5.31	2.73	5.26	3.45	3.94
17	3.74	6.62	8.32	7.88	7.91	7.97	6.55	5.23	2.73	5.27	3.66	3.96
18	3.71	6.91	8.38	7.85	8.13	7.91	6.48	4.87	2.70	5.19	3.68	4.14
19	3.68	6.97	8.40	7.80	8.34	8.08	6.44	3.99	2.67	5.14	3.72	6.01
20	3.60	6.93	8.40	7.77	8.72	8.39	6.37	3.73	2.66	5.20	3.79	6.37
21	3.53	6.78	8.37	7.69	8.85	8.56	6.36	3.62	2.63	5.22	3.81	6.72
22	3.46	6.76	8.32	7.50	8.95	8.70	6.49	3.49	2.65	5.35	3.84	7.46
23	3.74	6.75	8.27	7.56	9.01	8.81	6.40	3.40	2.68	5.54	3.85	7.59
24	3.42	6.73	8.20	7.61	8.93	8.84	6.08	3.30	2.65	5.55	3.87	7.76
25	3.32	6.71	8.15	7.62	8.90	8.82	5.94	3.24	2.62	5.54	3.77	7.93
26	3.28	6.68	8.12	7.66	8.90	8.77	5.83	3.19	2.62	5.51	3.58	8.22
27	3.80	6.65	8.26	7.70	8.84	8.70	5.68	3.19	2.80	5.48	3.47	8.43
28	4.35	6.61	8.32	7.66	8.84	8.61	5.43	3.28	2.81	5.44	3.46	8.57
29	4.42	6.57	8.38	7.64	---	8.53	5.30	3.24	2.73	5.41	3.88	8.62
30	4.43	6.53	8.43	7.62	---	8.44	5.31	3.20	2.89	5.37	3.55	8.60
31	4.74	---	8.45	7.59	---	8.34	---	3.18	---	5.35	3.82	---
MEAN	4.57	6.45	7.54	7.94	8.06	8.49	6.83	4.60	2.83	4.42	3.85	5.52
MAX	6.32	6.97	8.45	8.45	9.01	8.91	8.24	5.65	3.19	5.55	5.30	8.62
MIN	3.28	5.18	5.92	7.50	7.52	7.91	5.30	3.18	2.62	2.70	3.45	3.72

WTR YR 1998 MEAN 5.91 MAX 9.01 MIN 2.62

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 1997 TO SEPTEMBER 1998

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 24...	0925	6.73	415	184	5.90	20.0	--	5.8	--	--	--	--
APR 22...	0921	6.49	334	161	5.40	22.0	160	3.2	12	4.8	9.9	4.3
JUN 10...	0855	3.08	15	321	6.40	27.0	--	2.0	--	--	--	--
AUG 04...	0848	4.16	54	247	6.00	27.0	200	2.0	16	6.6	18	8.0
SEP 15...	0845	3.85	40	243	5.80	24.5	200	4.1	14	5.8	20	7.2

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 24...	--	--	--	--	--	<.01	.07	.12	2.6	.25	.06	--
APR 22...	12	15	.28	2.0	132	.01	.15	.11	2.3	.53	.35	41
JUN 10...	--	--	--	--	--	.03	.34	.31	1.4	1.2	1.0	--
AUG 04...	33	22	.43	9.9	198	.03	.44	.21	2.7	1.4	1.2	67
SEP 15...	30	25	.36	8.3	186	.03	.36	.13	1.3	1.7	1.4	63

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

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 88.56 ft, Sept. 30; minimum, 82.06 ft, Aug. 16.

[illegible]

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

02294898 PEACE RIVER AT FORT MEADE, FL

LOCATION.--Lat 27°45'04", long 81°46'56", in SE¹/₄ 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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	141	409	1460	1010	2070	1680	185	58	9.7	127	52
2	335	174	393	1510	984	2090	1600	191	47	7.0	132	84
3	354	173	363	1510	1090	2060	1530	190	34	5.2	125	76
4	283	175	320	1460	1110	2010	1490	178	32	4.5	120	69
5	213	220	293	1390	1080	1960	1410	168	25	6.2	74	69
6	190	285	295	1380	1040	1940	1340	167	14	5.5	83	75
7	177	341	342	1310	1010	1880	1290	164	e10	5.5	62	102
8	180	374	388	1340	999	1810	1280	154	e8.2	6.1	49	89
9	196	381	411	1390	1000	1890	1160	151	e7.1	9.6	42	86
10	200	369	417	1340	995	1820	1050	151	e6.3	11	39	127
11	170	364	423	1270	990	1780	940	150	e5.8	42	44	73
12	131	345	471	1210	965	1710	813	145	e5.2	127	49	67
13	114	365	739	1200	960	1640	733	141	e4.8	181	37	66
14	102	612	1040	1180	968	1570	698	138	e4.4	202	36	43
15	78	564	1220	1170	964	1520	717	133	e4.2	290	37	39
16	64	533	1350	1250	1140	1470	757	125	e4.0	346	34	45
17	57	485	1460	1210	1390	1410	706	115	e3.8	301	58	46
18	52	466	1520	1170	1540	1380	623	106	e3.7	214	84	50
19	49	498	1530	1120	1540	1530	504	85	e3.6	207	54	330
20	45	576	1540	1090	1970	1900	437	48	e3.5	199	62	580
21	41	618	1520	1070	2210	2090	418	38	e3.5	183	52	837
22	37	607	1480	1060	2190	2100	377	30	e3.4	162	52	917
23	35	560	1410	1100	2220	2110	368	23	e3.4	164	59	1000
24	39	523	1340	1200	2210	2110	400	19	e3.3	188	61	1110
25	35	499	1310	1180	2140	2080	373	15	3.3	161	59	1310
26	30	482	1290	1160	2060	2030	304	14	3.6	144	59	1660
27	40	466	1300	1130	2050	1980	257	12	3.3	169	52	1680
28	90	449	1400	1120	2020	1950	226	18	3.2	160	52	1650
29	96	433	1460	1080	---	1870	227	29	3.0	128	54	1710
30	89	420	1480	1070	---	1820	220	42	4.2	133	53	1750
31	90	---	1460	1060	---	1760	---	57	---	115	54	---
TOTAL	3894	12498	30374	38190	39845	57340	23928	3182	318.8	3886.3	1955	15792
MEAN	126	417	980	1232	1423	1850	798	103	10.6	125	63.1	526
MAX	354	618	1540	1510	2220	2110	1680	191	58	346	132	1750
MIN	30	141	293	1060	960	1380	220	12	3.0	4.5	34	39
CFSM	.26	.87	2.04	2.57	2.96	3.85	1.66	.21	.02	.26	.13	1.10
IN.	.30	.97	2.35	2.96	3.09	4.44	1.85	.25	.02	.30	.15	1.22

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1998, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	239	117	134	185	188	217	162	78.9	102	225	346	378												
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1975 - 1998
ANNUAL TOTAL	83923.5	231203.1	
ANNUAL MEAN	230	633	198
HIGHEST ANNUAL MEAN			633
LOWEST ANNUAL MEAN			37.6
HIGHEST DAILY MEAN	1540	Dec 20	2220
LOWEST DAILY MEAN	1.0	Apr 11	3.0
ANNUAL SEVEN-DAY MINIMUM	2.6	Apr 6	3.3
INSTANTANEOUS PEAK FLOW			2250
INSTANTANEOUS PEAK STAGE			78.85
ANNUAL RUNOFF (CFSM)	.48		1.32
ANNUAL RUNOFF (INCHES)	6.50		17.92
10 PERCENT EXCEEDS	791	1680	530
50 PERCENT EXCEEDS	57	320	84
90 PERCENT EXCEEDS	7.3	14	11

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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02294898 PEACE RIVER AT FORT MEADE, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73.88	72.40	74.86	77.92	77.29	78.65	78.19	72.95	71.28	70.21	72.27	71.18
2	74.34	72.80	74.74	77.96	77.23	78.68	78.08	73.01	71.08	70.12	72.34	71.69
3	74.48	72.79	74.54	77.96	77.48	78.64	77.99	73.00	70.81	70.05	72.25	71.58
4	73.89	72.81	74.23	77.92	77.51	78.58	77.92	72.87	70.79	70.02	72.19	71.47
5	73.21	73.28	73.99	77.86	77.45	78.53	77.83	72.76	70.63	70.09	71.54	71.46
6	72.97	73.91	74.01	77.85	77.36	78.51	77.73	72.74	70.35	70.07	71.68	71.54
7	72.83	74.39	74.40	77.79	77.28	78.44	77.67	72.71	---	70.07	71.34	71.95
8	72.87	74.61	74.71	77.82	77.26	78.35	77.65	72.60	---	70.09	71.12	71.77
9	73.03	74.66	74.87	77.86	77.27	78.44	77.48	72.56	---	70.21	70.99	71.70
10	73.07	74.58	74.91	77.81	77.25	78.36	77.25	72.57	---	70.25	70.93	72.27
11	72.74	74.55	74.95	77.75	77.24	78.31	76.98	72.55	---	70.90	71.03	71.52
12	72.30	74.41	75.24	77.70	77.18	78.23	76.64	72.49	---	72.27	71.11	71.44
13	72.07	74.51	76.36	77.69	77.17	78.14	76.38	72.44	---	72.90	70.89	71.41
14	71.91	75.93	77.22	77.65	77.19	78.04	76.26	72.41	---	73.13	70.87	71.01
15	71.57	75.72	77.57	77.64	77.18	77.97	76.32	72.35	---	73.96	70.89	70.93
16	71.35	75.57	77.75	77.74	77.56	77.89	76.46	72.24	---	74.43	70.82	71.04
17	71.24	75.32	77.89	77.69	77.86	77.82	76.28	72.12	---	74.06	71.26	71.07
18	71.15	75.22	77.96	77.64	78.00	77.78	75.97	72.01	---	73.24	71.69	71.14
19	71.10	75.39	77.97	77.54	78.00	77.98	75.42	71.71	---	73.17	71.21	74.20
20	71.03	75.78	77.98	77.48	78.53	78.46	75.04	71.10	---	73.09	71.35	75.73
21	70.95	75.96	77.96	77.42	78.80	78.68	74.92	70.91	---	72.92	71.17	76.72
22	70.88	75.91	77.93	77.40	78.79	78.68	74.64	70.73	---	72.69	71.18	76.93
23	70.83	75.70	77.88	77.49	78.82	78.70	74.58	70.59	---	72.71	71.29	77.14
24	70.91	75.52	77.82	77.69	78.81	78.70	74.79	70.47	---	72.97	71.34	77.38
25	70.84	75.39	77.79	77.66	78.73	78.66	74.61	70.38	69.97	72.68	71.31	77.69
26	70.74	75.30	77.77	77.63	78.64	78.61	74.09	70.34	69.98	72.48	71.30	78.16
27	70.91	75.21	77.78	77.56	78.63	78.55	73.67	70.30	69.97	72.77	71.18	78.18
28	71.74	75.12	77.87	77.53	78.60	78.52	73.37	70.46	69.96	72.66	71.18	78.14
29	71.83	75.02	77.92	77.45	---	78.43	73.38	70.71	69.95	72.29	71.21	78.22
30	71.74	74.93	77.94	77.43	---	78.36	73.30	70.97	70.00	72.35	71.19	78.27
31	71.75	---	77.92	77.40	---	78.28	---	71.26	---	72.13	71.21	---
MEAN	72.07	74.76	76.54	77.68	77.83	78.39	76.03	71.82	---	71.97	71.33	73.76
MAX	74.48	75.96	77.98	77.96	78.82	78.70	78.19	73.01	---	74.43	72.34	78.27
MIN	70.74	72.40	73.99	77.40	77.17	77.78	73.30	70.30	---	70.02	70.82	70.93

CAL YR 1997 MEAN 72.34 MAX 77.98 MIN 69.96

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- PER 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 24...	1510	75.50	560	250	6.10	19.0	6.2
APR 22...	1530	74.60	372	189	7.00	22.0	5.6
JUN 10...	1415	--	E6.3	409	8.50	27.0	6.0
AUG 04...	1404	72.21	122	349	7.10	27.0	5.8
SEP 15...	1330	70.87	36	310	6.30	25.0	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 24...	<.01	.05	.10	1.7	.62	.52
APR 22...	.02	.45	.10	2.2	1.3	.76
JUN 10...	.01	.84	.08	.68	.83	.72
AUG 04...	.01	.19	.06	2.2	1.1	.75
SEP 15...	.01	.39	.05	.95	1.2	.91

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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02295013 BOWLEGS CREEK NEAR FT. MEADE, FL

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

DRAINAGE AREA.--47.2 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	8.6	23	72	74	302	60	5.7	5.4	e1.7	3.7	e6.6
2	20	15	20	66	71	202	54	5.5	4.8	e2.0	3.8	e8.0
3	16	17	18	61	176	146	49	5.0	3.7	e1.6	5.6	e8.8
4	13	13	22	57	139	130	45	5.1	3.0	e1.4	4.3	e10
5	11	11	25	53	123	119	41	6.9	2.6	e1.4	3.8	e9.3
6	9.6	8.8	22	46	113	107	37	7.5	2.5	e1.5	5.6	e8.7
7	8.0	7.4	19	41	109	95	33	6.5	2.4	e1.6	4.9	e9.5
8	6.9	6.4	16	55	99	83	29	5.6	e2.3	e1.7	4.3	e11
9	6.1	5.5	15	73	87	143	26	5.0	e2.2	e2.1	4.1	e12
10	5.6	4.9	14	61	77	130	23	4.5	e2.2	e2.4	5.2	e10
11	4.9	4.5	13	55	68	112	20	4.0	e2.3	e3.5	11	e9.2
12	4.5	4.2	18	51	63	96	18	3.7	e2.4	6.2	6.7	e8.5
13	4.2	86	212	47	59	84	16	3.5	e2.4	16	e4.7	e7.5
14	3.9	510	337	45	62	75	15	3.3	e2.3	10	e4.0	e6.3
15	3.6	268	280	59	59	67	14	3.0	e2.2	44	e5.9	e5.9
16	3.1	176	181	118	186	60	13	2.9	e2.1	23	e9.2	6.2
17	2.7	141	155	91	422	54	12	2.8	e2.0	20	e7.9	7.4
18	2.7	127	145	76	339	49	11	2.7	e1.8	16	e6.4	10
19	2.9	112	129	68	259	258	9.3	2.7	e1.7	12	e5.3	e40
20	2.6	91	109	61	300	726	11	2.6	e1.6	12	e5.0	e48
21	2.4	72	90	57	277	639	13	2.5	e1.6	9.7	e4.7	e36
22	2.3	64	74	53	197	452	11	e2.4	e1.5	8.7	e4.4	e30
23	2.2	67	63	133	184	309	9.3	e2.3	e1.4	9.1	e4.6	e27
24	2.1	54	58	285	150	214	8.0	e2.2	e1.7	7.2	e5.1	e25
25	2.0	47	54	185	132	156	7.1	e2.1	e2.1	5.9	e5.6	e32
26	2.0	40	59	147	117	134	6.6	e2.0	e2.0	4.9	e6.0	e43
27	6.0	35	96	144	107	117	6.1	e2.1	e1.7	4.2	e5.2	e50
28	13	30	134	139	135	102	5.7	e2.2	e1.5	3.6	e5.0	e41
29	9.4	26	110	121	---	89	5.3	e2.4	e1.4	3.3	e4.5	e37
30	7.7	24	95	104	---	77	5.4	e3.2	e1.3	3.3	e5.3	e34
31	7.3	---	82	87	---	68	---	4.9	---	3.2	e5.2	---
TOTAL	213.7	2076.3	2688	2711	4184	5395	613.8	116.8	68.1	243.2	167.0	597.9
MEAN	6.89	69.2	86.7	87.5	149	174	20.5	3.77	2.27	7.85	5.39	19.9
MAX	26	510	337	285	422	726	60	7.5	5.4	44	11	50
MIN	2.0	4.2	13	41	59	49	5.3	2.0	1.3	1.4	3.7	5.9
AC-FT	424	4120	5330	5380	8300	10700	1220	232	135	482	331	1190
CFSM	.15	1.47	1.84	1.85	3.17	3.69	.43	.08	.05	.17	.11	.42
IN.	.17	1.64	2.12	2.14	3.30	4.25	.48	.09	.05	.19	.13	.47

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

	MEAN	32.0	15.4	18.3	24.8	30.2	30.9	10.6	3.61	30.3	44.4	62.2	51.8
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 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1965 - 1998

ANNUAL TOTAL	8494.0	19074.8	
ANNUAL MEAN	23.3	52.3	30.4
HIGHEST ANNUAL MEAN			55.6
LOWEST ANNUAL MEAN			11.8
HIGHEST DAILY MEAN	510	Nov 14	726
LOWEST DAILY MEAN	1.5	Apr 5	e1.3
ANNUAL SEVEN-DAY MINIMUM	1.5	Apr 5	1.5
INSTANTANEOUS PEAK FLOW			730
INSTANTANEOUS PEAK STAGE			8.32
ANNUAL RUNOFF (AC-FT)	16850	37830	22010
ANNUAL RUNOFF (CFSM)	.49	1.11	.64
ANNUAL RUNOFF (INCHES)	6.69	15.03	8.75
10 PERCENT EXCEEDS	66	139	80
50 PERCENT EXCEEDS	4.3	12	8.4
90 PERCENT EXCEEDS	2.2	2.3	2.1

LOCATION.--Lat 27°37'39", long 81°48'05", in NW¹/₄ 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.

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 61.43 ft, Sept. 28; minimum, 49.50 ft, Aug. 30.

[illegible]

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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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 mi².

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363	89	107	395	298	535	461	73	69	58	70	185
2	290	142	103	343	292	578	424	93	64	37	77	209
3	227	144	104	293	485	544	359	84	59	34	84	232
4	183	117	138	266	471	494	286	74	53	34	74	218
5	159	108	184	249	419	444	228	70	54	36	90	220
6	144	101	182	233	379	410	196	62	51	40	117	232
7	128	89	170	216	349	392	182	56	47	42	165	263
8	122	78	164	261	309	376	142	54	43	45	189	325
9	114	70	163	320	271	494	111	53	41	53	186	406
10	108	63	157	285	251	469	101	53	44	61	198	354
11	115	57	138	247	256	413	89	52	43	66	202	318
12	115	55	137	224	254	352	76	50	46	75	187	289
13	107	247	507	208	231	304	66	49	43	126	167	258
14	100	1420	932	210	246	274	65	46	39	127	144	241
15	96	1150	903	251	255	264	67	43	37	181	189	208
16	84	725	796	413	526	245	64	41	36	261	170	191
17	77	534	689	382	866	227	63	40	35	215	153	204
18	76	390	555	308	1050	199	63	38	35	208	149	224
19	78	320	461	264	844	642	62	37	36	195	140	e300
20	77	280	400	254	714	2160	69	36	37	221	148	e400
21	76	226	330	239	705	1630	101	35	36	174	143	e530
22	74	195	295	216	712	1430	84	32	35	137	142	e1010
23	73	180	269	392	717	1250	74	31	32	123	159	954
24	71	195	257	943	661	1100	68	30	41	102	137	874
25	70	171	245	832	596	922	68	30	84	75	129	899
26	70	148	255	623	548	772	69	29	64	77	130	1540
27	76	131	393	560	499	661	69	30	49	77	124	1970
28	98	118	603	495	475	597	66	40	41	74	127	1570
29	89	108	542	415	---	566	64	64	35	84	150	1210
30	86	106	466	357	---	509	63	60	32	108	139	1000
31	83	---	434	322	---	481	---	69	---	73	177	---
TOTAL	3629	7757	11079	11016	13679	19734	3900	1554	1361	3219	4456	16834
MEAN	117	259	357	355	489	637	130	50.1	45.4	104	144	561
MAX	363	1420	932	943	1050	2160	461	93	84	261	202	1970
MIN	70	55	103	208	231	199	62	29	32	34	70	185
CFSM	.97	2.14	2.95	2.94	4.04	5.26	1.07	.41	.37	.86	1.19	4.64
IN.	1.12	2.38	3.41	3.39	4.21	6.07	1.20	.48	.42	.99	1.37	5.18

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	115	71.1	63.1	79.3	99.4	108	66.3	40.0	99.3	165	211	230																									
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1964 - 1998
ANNUAL TOTAL	43890	98218	
ANNUAL MEAN	120	269	112
HIGHEST ANNUAL MEAN			269
LOWEST ANNUAL MEAN			48.2
HIGHEST DAILY MEAN	1420	2160	2560
LOWEST DAILY MEAN	14	29	1.2
ANNUAL SEVEN-DAY MINIMUM	15	31	1.6
INSTANTANEOUS PEAK FLOW		2480	3170
INSTANTANEOUS PEAK STAGE		17.10	17.88
ANNUAL RUNOFF (CFSM)	.99	2.22	.93
ANNUAL RUNOFF (INCHES)	13.49	30.20	12.62
10 PERCENT EXCEEDS	265	611	251
50 PERCENT EXCEEDS	72	165	59
90 PERCENT EXCEEDS	25	43	14

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 1997 TO SEPTEMBER 1998

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)
MAY							
06...	1040	3.64	62	341	6.5	21.0	7.9
JUN							
04...	1106	3.57	55	370	6.6	27.0	6.7
25...	1200	3.96	97	378	7.6	25.0	6.3
AUG							
06...	1049	4.15	110	374	7.3	25.0	6.4
SEP							
30...	1134	13.30	1000	230	6.3	24.0	5.0

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)
MAY						
06...	.02	.62	.03	1.3	.95	.85
JUN						
04...	<.01	.43	.02	.64	.66	.66
25...	.01	.81	.14	.68	.68	.61
AUG						
06...	.01	.41	.04	.68	.64	.60
SEP						
30...	.02	.19	.03	.69	.97	.88

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DRAINAGE AREA.--826 mi²

REMARKS.--Records good.

† From highwater mark

FOR 1997 WATER YEAR			FOR 1998 WATER YEAR			FOR 1999 WATER YEAR		
ANNUAL TOTAL	195788		470889					
ANNUAL MEAN	536		1290			635		
HIGHEST ANNUAL MEAN						1605		1960
LOWEST ANNUAL MEAN						179		1981
HIGHEST DAILY MEAN	5790	Nov 15	e9960	Mar 21		19700	Sep 20	1947
LOWEST DAILY MEAN	42	Apr 6	49	Jun 24		19	May 28	1994
ANNUAL SEVEN-DAY MINIMUM	48	Apr 5	54	Jun 18		24	May 23	1994
INSTANTANEOUS PEAK FLOW			†11900	Mar 21		26300	Sep 6	1933
INSTANTANEOUS PEAK STAGE			†21.33	Mar 21		25.05	Sep 6	1933
ANNUAL RUNOFF (CFSM)	.65		1.56			.77		
ANNUAL RUNOFF (INCHES)	8.82		21.21			10.44		
10 PERCENT EXCEEDS	1440		3120			1450		
50 PERCENT EXCEEDS	185		569			330		
90 PERCENT EXCEEDS	75		99			106		

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

02295637 PEACE RIVER AT ZOLFO SPRINGS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.93	5.83	8.27	13.59	---	14.86	---	6.85	5.60	4.76	5.76	6.09
2	8.69	7.35	8.07	13.29	---	15.20	---	6.76	5.45	4.57	6.03	6.11
3	8.50	7.62	7.91	13.06	---	15.40	---	6.75	5.26	4.39	6.12	6.47
4	8.12	6.89	8.50	12.89	---	15.28	---	6.63	5.10	4.28	5.96	6.41
5	7.44	6.64	9.22	12.76	---	14.94	---	6.55	5.03	4.32	5.77	6.28
6	6.89	6.79	8.59	12.59	---	14.61	---	6.46	4.95	4.43	5.91	6.35
7	6.65	7.01	8.23	12.47	---	14.36	---	6.44	4.78	4.55	6.57	6.83
8	6.47	7.15	8.21	12.45	---	14.17	---	6.33	4.68	4.46	6.86	7.52
9	6.45	7.17	8.26	12.93	---	14.64	---	6.20	4.65	4.66	6.70	7.59
10	6.47	7.12	8.26	12.96	---	14.95	---	6.13	4.67	4.81	6.52	7.51
11	6.41	7.03	8.18	12.76	---	14.68	---	6.15	4.65	4.98	6.39	7.30
12	6.19	6.96	8.21	12.47	---	14.29	---	6.08	4.63	6.03	6.33	6.78
13	5.95	8.34	12.62	12.20	11.33	13.86	---	6.05	4.63	6.75	6.11	6.58
14	5.79	17.55	16.18	12.04	11.18	13.47	---	6.02	4.56	7.11	5.89	6.35
15	5.64	18.06	16.76	12.15	11.15	13.15	---	5.96	4.49	7.94	6.29	6.11
16	5.43	16.82	16.33	13.75	13.12	12.89	---	5.88	4.42	9.41	6.27	6.01
17	5.28	14.74	15.71	13.90	17.16	12.66	---	5.79	4.35	9.32	6.03	6.13
18	5.21	12.70	15.08	13.41	18.71	12.73	9.11	5.72	4.27	8.39	6.47	6.45
19	5.20	11.38	14.51	12.86	17.80	---	8.76	5.67	4.25	7.69	6.28	7.39
20	5.16	10.83	14.07	12.42	16.79	---	8.49	5.45	4.29	7.71	6.23	10.25
21	5.10	10.51	13.67	12.12	16.03	---	9.28	5.23	4.34	7.39	6.26	11.83
22	5.04	10.37	13.36	11.87	15.96	---	8.58	5.09	4.30	7.04	6.15	13.06
23	4.99	10.67	13.08	12.89	16.14	---	8.10	4.85	4.24	6.83	6.11	13.60
24	4.97	10.44	12.83	16.33	16.16	---	7.89	4.75	4.21	6.76	6.03	13.60
25	4.99	9.91	12.62	---	15.89	---	7.87	4.67	4.71	6.56	5.87	13.75
26	4.95	9.37	12.70	---	15.56	---	7.67	4.59	4.74	6.29	5.81	15.02
27	5.16	8.99	13.41	---	15.20	---	7.33	4.58	4.55	6.17	5.77	16.18
28	5.97	8.72	14.93	---	14.88	---	7.06	4.66	4.43	6.20	5.72	16.77
29	6.01	8.48	14.85	---	---	---	6.94	5.16	4.27	6.07	5.95	16.75
30	5.81	8.31	14.37	---	---	---	6.86	5.41	4.26	6.19	5.84	16.17
31	5.69	---	13.91	---	---	---	---	5.80	---	6.02	5.85	---
MEAN	6.11	9.66	11.96	---	---	---	---	5.76	4.63	6.20	6.12	9.44
MAX	8.93	18.06	16.76	---	---	---	---	6.85	5.60	9.41	6.86	16.77
MIN	4.95	5.83	7.91	---	---	---	---	4.58	4.21	4.28	5.72	6.01

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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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 1997 TO SEPTEMBER 1998

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)
MAY							
06...	1125	6.46	365	303	6.3	23.0	4.2
JUN							
04...	1145	5.09	133	445	7.5	28.0	7.8
25...	1230	4.74	96	455	7.9	29.0	6.0
AUG							
06...	1130	5.80	256	374	7.4	26.0	7.0
SEP							
30...	1206	16.18	3820	224	6.3	25.0	4.6

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)
MAY						
06...	.01	.66	.05	1.3	1.2	.90
JUN						
04...	<.01	.83	.03	.56	.79	.81
25...	.01	.85	.05	.57	1.2	1.0
AUG						
06...	.01	.49	.04	1.4	1.3	1.0
SEP						
30...	.02	.21	.07	1.3	1.2	1.1

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 mi².

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.

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	825	38	795	1130	1100	1090	1010	76	44	15	28	82
2	714	56	680	1030	887	962	817	76	38	19	26	73
3	623	87	573	929	1070	831	671	72	35	18	26	64
4	531	80	649	822	1140	726	557	67	30	16	25	54
5	437	82	871	722	1090	647	466	61	28	18	24	51
6	350	79	745	630	1070	579	385	56	25	19	24	49
7	274	71	653	549	1080	514	321	53	23	20	26	55
8	215	63	600	513	1060	450	274	53	21	28	25	96
9	173	56	553	553	986	1130	239	44	20	31	26	187
10	145	51	507	538	881	1390	211	39	19	31	25	275
11	124	47	462	526	783	1230	185	37	18	31	23	495
12	108	44	424	508	693	1140	162	37	17	33	21	705
13	96	115	1250	486	610	1070	144	31	16	33	18	560
14	87	2210	2230	465	531	973	129	29	16	37	17	434
15	79	3360	3110	457	463	847	118	27	15	48	17	356
16	72	3920	3540	731	728	718	108	25	14	70	19	327
17	68	3650	3480	869	1700	600	98	24	14	65	21	289
18	61	3050	3060	859	3510	492	90	23	13	63	24	392
19	57	2560	2640	823	4330	941	81	22	13	68	24	454
20	53	2200	2290	769	4380	3840	74	21	13	89	28	471
21	50	1880	2000	709	3880	6150	83	20	14	111	87	759
22	46	1550	1670	651	3150	6210	94	18	15	112	210	932
23	43	1740	1340	1220	2620	5340	108	17	14	90	282	905
24	41	1910	1060	2170	2250	4190	114	16	14	69	232	872
25	38	1770	875	2420	2040	3280	111	15	14	57	215	868
26	35	1550	772	2650	1810	2680	107	15	14	49	215	1250
27	35	1370	833	2620	1550	2280	102	14	15	44	204	1640
28	37	1210	1190	2370	1290	2050	93	15	15	39	181	1740
29	39	1050	1320	2090	---	1820	84	19	14	36	151	1720
30	39	910	1290	1770	---	1550	78	37	14	33	122	1660
31	38	---	1220	1420	---	1260	---	44	---	30	99	---
TOTAL	5533	36759	42682	33999	46682	56980	7114	1103	575	1422	2465	17815
MEAN	178	1225	1377	1097	1667	1838	237	35.6	19.2	45.9	79.5	594
MAX	825	3920	3540	2650	4380	6210	1010	76	44	112	282	1740
MIN	35	38	424	457	463	450	74	14	13	15	17	49
CFSM	.54	3.71	4.17	3.32	5.05	5.57	.72	.11	.06	.14	.24	1.80
IN.	.62	4.14	4.81	3.83	5.26	6.42	.80	.12	.06	.16	.28	2.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1998, BY WATER YEAR (WY)

	MEAN	376	125	94.2	131	174	236	131	45.1	259	422	493	660
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1951 - 1998
ANNUAL TOTAL	119044.1	253129	
ANNUAL MEAN	326	694	262
HIGHEST ANNUAL MEAN			694
LOWEST ANNUAL MEAN			64.5
HIGHEST DAILY MEAN	3920	Nov 16	6210
LOWEST DAILY MEAN	3.2	Apr 6	13
ANNUAL SEVEN-DAY MINIMUM	3.4	Apr 1	14
INSTANTANEOUS PEAK FLOW			6560
INSTANTANEOUS PEAK STAGE			17.95
ANNUAL RUNOFF (CFSM)	.99	2.10	.80
ANNUAL RUNOFF (INCHES)	13.42	28.53	10.81
10 PERCENT EXCEEDS	889	2040	739
50 PERCENT EXCEEDS	43	204	65
90 PERCENT EXCEEDS	6.4	19	5.8

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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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 1997 TO SEPTEMBER 1998

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)
DEC							
17...	1445	15.22	3480	114	5.46	15.0	7.2
MAY							
06...	0955	3.37	56	183	6.00	23.0	6.8
JUN							
04...	1020	2.83	30	347	6.10	27.0	5.5
25...	1125	2.25	14	329	7.60	29.0	4.4
AUG							
06...	1005	2.43	24	284	6.70	27.0	6.3
SEP							
30...	1045	12.88	1660	136	5.10	25.0	4.2

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)
DEC						
17...	.01	.36	.08	1.2	--	.54
MAY						
06...	.02	.32	.07	1.3	.74	.66
JUN						
04...	.01	.91	.07	.81	.44	.44
25...	<.01	.20	.06	.56	.95	.95
AUG						
06...	.02	.50	.06	1.2	.74	.71
SEP						
30...	.02	.18	.09	1.8	.76	.71

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN**

02296750 PEACE RIVER AT ARCADIA, FL
(National Water Quality Assessment program station)

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 mi².

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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 20.6 ft, present datum, in 1912, from information by county engineer; discharge, 43,000 ft³/s, from rating curve extended above 30,000 ft³/s.

**DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3020	318	1730	4210	4350	4900	4620	551	322	80	357	453
2	2420	367	1570	3890	3600	4360	3920	542	279	101	330	491
3	1970	699	1400	3550	3430	3970	3440	516	240	103	340	501
4	1680	752	1400	3240	3630	3760	3100	504	206	87	351	550
5	1410	621	1970	2990	3830	3630	2840	482	177	79	320	566
6	1130	564	2210	2780	3870	3510	2600	456	160	76	296	570
7	908	568	1950	2610	3900	3360	2390	442	147	84	316	567
8	771	586	1630	2490	3720	3190	2230	430	129	125	543	643
9	679	594	1470	2510	3460	3350	2080	401	118	120	591	811
10	630	592	1380	2550	3140	4050	1950	362	129	123	530	905
11	599	578	1310	2580	2820	4350	1840	341	152	135	475	1090
12	567	560	1250	2550	2560	4300	1680	336	138	259	438	1250
13	515	575	2080	2440	2370	4100	1500	321	126	478	409	1170
14	455	2500	4450	2330	2220	3790	1310	308	118	577	362	988
15	407	4950	5900	2250	2110	3440	1170	299	108	762	322	857
16	366	6800	6720	2550	2430	3100	1080	284	99	918	369	787
17	325	9070	7590	3080	3550	2800	1040	269	92	1070	387	775
18	295	9890	7990	3390	5440	2540	1030	254	87	1050	357	870
19	282	9090	7770	3410	7560	3040	978	242	82	876	435	1040
20	268	7850	7200	3220	10100	6180	888	232	78	732	431	1570
21	255	6690	6560	2940	10900	9960	862	204	78	731	535	2180
22	241	5600	5890	2670	10400	16200	1030	171	81	693	713	2610
23	228	4840	5060	2960	9450	18500	919	153	82	623	770	2920
24	216	4780	4210	4630	8390	16300	804	130	93	565	711	3070
25	210	4530	3550	5340	7460	13400	758	118	101	524	632	3190
26	205	3980	3130	5850	6730	11300	740	110	112	471	583	3690
27	205	3320	3130	6250	6110	9760	696	105	129	413	562	4220
28	253	2700	3700	6460	5510	8460	635	106	119	379	545	4680
29	362	2230	4150	6330	---	7300	582	158	98	371	519	4990
30	373	1930	4420	5920	---	6340	555	207	90	349	514	5140
31	339	---	4420	5240	---	5470	---	259	---	361	474	---
TOTAL	21584	98124	117190	113210	143040	198710	49267	9293	3970	13315	14517	53144
MEAN	696	3271	3780	3652	5109	6410	1642	300	132	430	468	1771
MAX	3020	9890	7990	6460	10900	18500	4620	551	322	1070	770	5140
MIN	205	318	1250	2250	2110	2540	555	105	78	76	296	453
CFSM	.51	2.39	2.77	2.67	3.74	4.69	1.20	.22	.10	.31	.34	1.30
IN.	.59	2.67	3.19	3.08	3.89	5.41	1.34	.25	.11	.36	.40	1.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1998, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1932	1475	6954	1954	146	1985
1933	556	3271	1998	101	1982
1934	473	3780	1998	87.2	1932
1935	613	3652	1998	83.3	1985
1936	769	5109	1998	90.0	1932
1937	897	6410	1998	83.5	1985
1938	623	2449	1957	63.6	1975
1939	327	2597	1982	51.6	1985
1940	1035	6107	1945	98.6	1935
1941	1702	6604	1945	93.1	1981
1942	1956	7439	1960	324	1993
1943	2576	9876	1933	328	1984

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1932 - 1998
ANNUAL TOTAL	386868	835364	
ANNUAL MEAN	1060	2289	1085
HIGHEST ANNUAL MEAN			2571
LOWEST ANNUAL MEAN			298
HIGHEST DAILY MEAN	9890	Nov 18	34700
LOWEST DAILY MEAN	59	Mar 13	14
ANNUAL SEVEN-DAY MINIMUM	64	Apr 4	30
INSTANTANEOUS PEAK FLOW		18800	36200
INSTANTANEOUS PEAK STAGE		18.14	19.92
ANNUAL RUNOFF (CFSM)	.78	1.67	.79
ANNUAL RUNOFF (INCHES)	10.53	22.73	10.78
10 PERCENT EXCEEDS	2970	5910	2690
50 PERCENT EXCEEDS	282	919	464
90 PERCENT EXCEEDS	106	133	123

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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02296750 PEACE RIVER AT ARCADIA, FL--Continued
(National Water Quality Assessment program station)

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.63	2.30	6.72	11.43	11.48	12.17	11.88	3.58	2.82	1.57	2.78	2.92
2	8.43	2.47	6.29	11.01	10.41	11.60	11.05	3.54	2.66	1.71	2.68	3.03
3	7.37	3.61	5.83	10.51	10.13	11.12	10.34	3.45	2.50	1.72	2.71	3.06
4	6.60	3.81	5.83	10.02	10.47	10.82	9.77	3.41	2.36	1.61	2.75	3.22
5	5.86	3.34	7.35	9.58	10.79	10.64	9.30	3.34	2.22	1.56	2.64	3.27
6	5.04	3.13	7.96	9.20	10.84	10.46	8.84	3.26	2.13	1.54	2.54	3.28
7	4.33	3.14	7.31	8.85	10.88	10.22	8.40	3.21	2.06	1.59	2.61	3.25
8	3.87	3.21	6.47	8.62	10.62	9.92	8.00	3.18	1.96	1.85	3.38	3.53
9	3.55	3.24	6.02	8.65	10.18	10.18	7.64	3.08	1.89	1.82	3.54	4.11
10	3.37	3.23	5.76	8.75	9.66	11.22	7.32	2.96	1.95	1.84	3.31	4.41
11	3.26	3.18	5.56	8.81	9.12	11.59	7.02	2.89	2.07	1.90	3.13	4.99
12	3.14	3.11	5.39	8.73	8.65	11.54	6.67	2.87	1.99	2.39	3.00	5.45
13	2.95	3.17	7.51	8.52	8.27	11.28	6.24	2.82	1.91	3.22	2.91	5.23
14	2.76	8.33	11.63	8.25	7.93	10.88	5.79	2.76	1.86	3.57	2.76	4.64
15	2.60	12.19	13.11	8.05	7.66	10.34	5.42	2.73	1.80	4.22	2.61	4.21
16	2.47	13.88	13.84	8.73	8.36	9.77	5.21	2.67	1.74	4.69	2.77	3.96
17	2.33	15.28	14.47	9.74	10.30	9.23	5.10	2.62	1.69	5.10	2.83	3.91
18	2.22	15.65	14.73	10.25	12.65	8.73	5.06	2.56	1.65	5.05	2.73	4.22
19	2.17	15.30	14.59	10.29	14.27	9.62	4.93	2.51	1.61	4.56	2.97	4.75
20	2.11	14.64	14.21	9.98	15.63	13.28	4.69	2.47	1.58	4.11	2.96	6.29
21	2.06	13.82	13.72	9.50	16.00	15.51	4.61	2.35	1.57	4.10	3.30	7.87
22	2.01	12.83	13.10	8.99	15.78	17.64	5.06	2.20	1.59	3.97	3.93	8.86
23	1.95	12.11	12.32	9.48	15.31	18.10	4.77	2.11	1.59	3.72	4.12	9.45
24	1.90	12.05	11.41	11.88	14.77	17.69	4.45	1.99	1.65	3.49	3.91	9.72
25	1.88	11.78	10.51	12.59	14.25	16.95	4.32	1.92	1.71	3.34	3.62	9.92
26	1.86	11.12	9.82	13.05	13.77	16.15	4.26	1.87	1.77	3.17	3.43	10.71
27	1.86	10.14	9.81	13.44	13.28	15.46	4.11	1.84	1.87	2.97	3.34	11.44
28	2.05	9.02	10.73	13.64	12.74	14.81	3.89	1.85	1.82	2.86	3.26	11.95
29	2.46	8.01	11.35	13.52	---	14.15	3.70	2.13	1.69	2.84	3.16	12.26
30	2.49	7.26	11.67	13.12	---	13.47	3.59	2.36	1.63	2.75	3.14	12.41
31	2.38	---	11.67	12.46	---	12.72	---	2.57	---	2.79	2.99	---
MEAN	3.45	8.15	9.89	10.31	11.58	12.49	6.38	2.68	1.91	2.96	3.09	6.21
MAX	9.63	15.65	14.73	13.64	16.00	18.10	11.88	3.58	2.82	5.10	4.12	12.41
MIN	1.86	2.30	5.39	8.05	7.66	8.73	3.59	1.84	1.57	1.54	2.54	2.92

WTR YR 1998 MEAN 6.56 MAX 18.10 MIN 1.54

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL--Continued
(National Water Quality Assessment program station)

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	SAMPLE LOC- ATION, DIST DOWN- STREAM (FEET) (72104)	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 AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TEMPER- ATURE WATER (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT											
14...	1500	600	2.73	447	345	7.60	29.0	763	26.5	--	7.2
NOV											
03...	1340	500.0	3.81	753	370	7.70	25.0	766	22.0	--	7.2
DEC											
15...	1305	500.0	13.18	5990	128	6.60	14.0	765	18.0	--	6.4
17...	1230	--	14.50	7640	137	5.68	--	--	15.0	240	6.9
JAN											
13...	1330	600	8.51	2440	218	7.20	25.5	771	18.0	--	7.8
FEB											
10...	1405	450.0	9.60	3100	200	7.20	20.5	770	14.0	--	8.3
MAR											
10...	1350	500	11.27	4090	155	7.00	15.0	772	20.0	--	6.1
24...	1540	450.0	17.60	15900	81	6.50	26.0	773	18.0	--	6.0
APR											
07...	1220	450.0	8.39	2390	208	7.30	26.0	766	23.0	--	6.2
16...	1040	--	5.22	1080	238	--	--	--	20.0	140	8.0
MAY											
18...	1520	600.0	2.55	252	310	8.30	29.5	767	28.5	--	12.4
JUN											
15...	1145	500	1.80	108	434	7.40	31.0	765	31.0	--	7.0
JUL											
13...	1150	500	3.20	473	462	7.20	30.0	763	29.0	--	5.8
AUG											
06...	1100	500	2.55	298	369	7.30	29.0	769	29.5	--	7.6
SEP											
02...	1045	--	3.04	494	385	7.20	--	--	27.0	--	6.4
08...	1400	450.0	3.54	645	367	7.70	26.0	760	29.0	--	6.3
17...	1040	--	3.88	764	293	6.20	--	--	24.0	200	7.4

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	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)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)
OCT											
14...	120	28	12	21	4.3	--	94.0	77.0	49	21	.9
NOV											
03...	120	28	13	21	5.1	--	85.0	70.0	61	22	.9
DEC											
15...	45	11	4.5	5.5	4.2	--	24.0	20.0	17	12	.2
17...	44	9.8	4.7	5.7	4.6	--	--	--	16	12	.23
JAN											
13...	75	17	7.6	11	4.1	--	56	46	24	18	.5
FEB											
10...	68	15	7.1	11	3.7	--	49.0	40.0	25	17	.4
MAR											
10...	50	12	5.1	8.8	3.0	--	34.0	28.0	20	12	.4
24...	27	6.3	2.7	3.8	2.8	--	18.0	15.0	8.6	6.5	.2
APR											
07...	72	17	7.2	13	3.1	--	54.0	44.0	26	13	.6
16...	79	18	8.1	14	3.4	--	--	--	30	16	.57
MAY											
18...	110	26	11	18	4.3	4	88.0	72.0	50	20	.9
JUN											
15...	160	37	17	22	4.7	--	101	82.0	91	21	1.1
JUL											
13...	180	40	18	21	5.2	--	87	71.0	100	22	1.0
AUG											
06...	120	28	13	24	3.8	--	87.0	72.0	64	19	1.3
SEP											
02...	--	--	--	--	--	--	--	--	--	--	--
08...	120	26	12	26	4.3	--	89.0	73.0	61	19	1.2
17...	97	22	10	20	4.2	--	--	--	48	18	.80

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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02296750 PEACE RIVER AT ARCADIA, FL--Continued
(National Water Quality Assessment program station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	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, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT										
14...	8.7	226	--	.005	--	.54	--	<.002	.9	.7
NOV										
03...	6.4	235	--	.001	--	.82	--	.006	.8	.6
DEC										
15...	4.2	121	--	.019	--	.25	--	<.002	1.0	.9
17...	4.7	124	<.01	--	.34	--	.07	--	.95	--
JAN										
13...	4.4	162	--	.007	--	.30	--	.009	.8	.8
FEB										
10...	3.4	147	--	.008	--	.32	--	.019	1.0	.9
MAR										
10...	2.3	117	--	.011	--	.30	--	.080	.8	.9
24...	1.9	73	--	.013	--	.30	--	.004	.7	--
APR										
07...	2.9	154	--	.009	--	.41	--	.026	.9	.8
16...	4.3	156	<.01	--	<.02	--	.02	--	1.4	--
MAY										
18...	5.4	214	--	.003	--	<.005	--	<.002	.9	.7
JUN										
15...	4.3	290	--	.016	--	.47	--	.015	.9	.7
JUL										
13...	4.3	299	--	.011	--	.87	--	.061	.7	.5
AUG										
06...	7.0	242	--	.003	--	.35	--	.002	1.1	.7
SEP										
02...	--	--	--	--	--	--	--	--	--	--
08...	6.1	256	--	.007	--	.64	--	.020	.9	.8
17...	7.8	222	.01	--	.47	--	.04	--	.95	--

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
OCT										
14...	.68	--	--	.64	--	--	--	--	--	--
NOV										
03...	.79	.57	--	.58	--	--	--	--	--	--
DEC										
15...	.63	.64	--	.50	--	--	--	--	--	--
17...	--	--	.60	--	200	1.0	<1.0	<1.0	3.1	326
JAN										
13...	.80	.69	--	.65	--	--	--	--	--	--
FEB										
10...	.62	.55	--	.47	--	--	--	--	--	--
MAR										
10...	.77	.64	--	.62	--	--	--	--	--	--
24...	.52	.50	--	.42	--	--	--	--	--	--
APR										
07...	1.2	1.0	--	.95	--	--	--	--	--	--
16...	1.1	--	--	--	180	<1.0	<1.0	<1.0	1.3	460
MAY										
18...	--	--	--	.47	--	--	--	--	--	--
JUN										
15...	1.0	.98	--	.22	--	--	--	--	--	--
JUL										
13...	--	.80	--	.80	--	--	--	--	--	--
AUG										
06...	--	--	--	--	--	--	--	--	--	--
SEP										
02...	--	--	--	--	186	1.6	<1.0	2.4	1.4	372
08...	.92	--	--	.83	--	--	--	--	--	--
17...	.71	--	.62	--	188	1.2	<1.0	<1.0	<1.0	458

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL--Continued
(National Water Quality Assessment program station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	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 DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 14...	190	--	12	--	--	--	--	19	1.9	2
NOV 03...	87	--	9	--	--	--	--	12	1.6	10
DEC 15...	250	--	7	--	--	--	--	21	.7	9
17...	--	<1	--	<.1	<1.0	270	5.4	--	--	--
JAN 13...	270	--	11	--	--	--	--	19	.7	6
FEB 10...	290	--	7	--	--	--	--	19	.2	4
MAR 10...	180	--	7	--	--	--	--	15	.9	8
24...	160	--	<4	--	--	--	--	13	.5	4
APR 07...	260	--	10	--	--	--	--	15	.5	7
16...	--	<1	--	<.1	1.0	300	4.3	--	--	--
MAY 18...	54	--	<4	--	--	--	--	13	>4.1	17
JUN 15...	33	--	13	--	--	--	--	10	.6	4
JUL 13...	40	--	15	--	--	--	--	10	1.6	14
AUG 06...	57	--	<4	--	--	--	--	14	2.5	10
SEP 02...	--	<1	--	<.1	2.4	--	3.5	--	--	--
08...	180	--	6	--	--	--	--	17	.5	9
17...	--	<1	--	<.1	<1.0	570	3.7	--	--	--

NOTE.--Analyses of selected organic compounds are shown on pages 357-358.

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LOCATION.--Lat 27°09'59", long 81°52'47", in SE 1/4 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 mi².

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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	831	39	121	363	e130	305	e190	32	64	59	44	53
2	580	95	109	310	e118	278	e180	31	46	39	43	51
3	426	129	95	271	350	244	e160	27	35	38	37	53
4	315	78	153	243	342	221	e150	28	28	31	33	70
5	255	62	233	217	321	206	e135	37	24	28	31	78
6	216	56	203	197	303	194	131	33	26	29	44	67
7	182	50	175	181	474	181	115	30	25	31	42	155
8	156	46	150	209	474	166	102	38	20	202	52	125
9	133	43	131	310	394	178	92	35	18	147	51	98
10	114	40	118	295	320	213	85	30	18	115	44	217
11	100	38	108	267	269	232	75	26	16	107	39	500
12	89	37	104	235	244	232	68	24	16	252	34	396
13	78	43	362	207	223	221	62	22	15	625	30	244
14	71	166	915	185	200	202	59	20	13	720	26	166
15	65	e250	1280	180	182	178	55	20	12	720	23	130
16	60	e190	1090	472	391	153	52	20	12	436	21	117
17	55	e150	859	552	547	130	48	18	12	269	21	126
18	53	e130	735	486	755	113	45	17	11	192	30	163
19	52	e105	642	377	799	664	42	18	11	154	38	189
20	48	e82	557	312	879	1970	41	20	11	214	43	481
21	45	e64	479	270	985	2020	45	18	16	198	85	1040
22	43	e58	409	236	882	e1500	62	16	16	160	116	917
23	41	e90	344	301	741	e1000	52	15	16	186	180	683
24	41	e230	308	433	610	e700	46	14	14	150	149	543
25	38	e196	278	e370	516	e500	42	13	24	112	100	492
26	36	e180	281	e330	443	e340	38	13	24	92	74	932
27	38	e160	358	e280	384	e300	36	14	21	74	60	1230
28	50	173	524	e250	334	e280	33	15	19	63	53	934
29	44	144	521	e180	---	e250	32	20	17	54	107	749
30	41	127	491	e150	---	e230	32	35	16	49	87	e600
31	40	---	428	e140	---	e210	---	46	---	44	65	---
TOTAL	4336	3251	12561	8809	12610	13611	2305	745	616	5590	1802	11599
MEAN	140	108	405	284	450	439	76.8	24.0	20.5	180	58.1	387
MAX	831	250	1280	552	985	2020	190	46	64	720	180	1230
MIN	36	37	95	140	118	113	32	13	11	28	21	51
CFSM	1.06	.82	3.07	2.15	3.41	3.33	.58	.18	.16	1.37	.44	2.93
IN.	1.22	.92	3.54	2.48	3.55	3.84	.65	.21	.17	1.58	.51	3.23

e Estimated

MEAN	165	39.6	35.0	49.8	59.8	88.9	34.3	29.1	131	174	186	291
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

WATER YEARS 1951 - 1998

ANNUAL TOTAL	43191.4		77835				
ANNUAL MEAN	118		213			107	
HIGHEST ANNUAL MEAN						231	1953
LOWEST ANNUAL MEAN						20.7	1956
HIGHEST DAILY MEAN	2150	Sep 28	2020	Mar 21		7910	Oct 10 1953
LOWEST DAILY MEAN	6.7	Apr 7	11	Jun 18		.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	7.8	Apr 5	12	Jun 14		.00	May 3 1959
INSTANTANEOUS PEAK FLOW			2370	Mar 20		8670	Oct 10 1953
INSTANTANEOUS PEAK STAGE			16.21	Mar 20		19.05	Sep 22 1962
ANNUAL RUNOFF (CFSM)	.90		1.62			.81	
ANNUAL RUNOFF (INCHES)	12.17		21.94			11.03	
10 PERCENT EXCEEDS	255		532			269	
50 PERCENT EXCEEDS	40		118			27	
90 PERCENT EXCEEDS	17		21			3.9	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 1997 TO SEPTEMBER 1998

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 20...	1115	10.52	82	516	6.20	19.0	--	7.6	--	--	--	--
DEC 17...	1345	12.43	841	293	5.91	14.0	280	7.9	21	7.6	16	6.0
APR 16...	1130	5.23	52	670	6.60	20.0	80	7.8	58	16	40	5.3
JUN 02...	1115	5.38	46	918	7.10	25.0	--	6.3	--	--	--	--
SEP 02...	1114	5.60	51	740	6.30	25.0	100	6.6	65	17	45	8.0
17...	1140	6.89	119	542	6.30	23.5	160	7.2	45	13	33	7.4

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 20...	--	--	--	--	--	<.01	1.2	.03	.93	.11	.08	--
DEC 17...	36	36	.18	5.2	222	.01	1.2	.07	1.3	--	.17	1200
APR 16...	84	97	.37	6.9	450	<.01	1.2	.04	.81	.16	.16	1900
JUN 02...	--	--	--	--	--	.01	2.0	.04	.76	.14	.14	--
SEP 02...	88	110	.36	9.4	512	.02	.91	.05	1.0	.18	.16	3800
17...	66	79	.29	8.8	396	.02	.90	.05	1.3	.24	.18	2400

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	7.8	33	75	48	66	18	.77	.09	.03	4.2	5.2
2	87	84	29	62	60	68	16	.63	.08	.02	18	5.8
3	e99	39	26	53	274	47	13	.49	.07	.01	11	7.0
4	e71	23	85	47	167	40	12	.40	.05	.04	6.1	9.2
5	e52	18	83	41	120	35	11	.34	.04	.06	e5.0	7.6
6	e41	15	55	37	94	32	10	.29	.03	.23	e17	6.2
7	31	12	43	34	88	29	9.7	.22	.02	.12	e60	5.8
8	25	10	37	100	72	26	e9.4	.20	.02	.09	56	11
9	21	8.8	33	98	59	61	e8.1	.17	.01	.19	41	12
10	17	7.5	31	62	50	52	e7.4	.14	.01	.31	e34	19
11	14	6.4	29	50	44	39	e6.6	.11	.90	1.0	e40	40
12	12	5.6	32	42	38	33	e5.9	.10	.45	2.6	e70	23
13	9.6	507	620	37	35	29	e5.1	.09	.14	4.2	46	16
14	8.4	1480	773	34	34	27	e4.0	.08	.09	11	33	12
15	7.1	619	450	81	34	24	e3.7	.07	.07	20	25	10
16	5.9	327	258	179	293	22	e3.1	.06	.05	19	20	11
17	5.0	208	169	82	905	21	e2.5	.04	.04	9.3	e14	10
18	4.9	146	121	58	405	19	2.0	.04	.03	5.2	e11	12
19	5.5	111	93	49	211	1030	1.7	.04	.01	3.2	e13	164
20	4.4	86	74	42	155	1550	2.0	.04	.01	29	e19	352
21	3.5	68	62	37	118	676	6.0	.03	.00	20	26	282
22	2.9	109	53	33	89	369	4.9	.03	.00	11	62	225
23	2.4	188	47	458	78	216	3.4	.03	.00	7.9	37	185
24	2.0	91	42	637	63	143	2.6	.02	.00	6.0	24	140
25	1.6	61	39	323	53	101	1.9	.02	.01	4.2	18	166
26	1.4	47	58	209	46	75	1.4	.02	.01	3.2	15	508
27	4.8	39	337	149	41	58	1.2	.02	.03	2.7	12	424
28	11	34	318	114	43	47	.94	.06	.04	2.1	10	298
29	6.8	31	158	84	---	36	.73	.13	.04	2.1	8.8	209
30	5.1	31	119	67	---	27	.75	.10	.03	8.6	7.4	154
31	5.1	---	95	56	---	22	---	.11	---	5.0	6.2	---
TOTAL	649.4	4420.1	4402	3430	3717	5020	175.02	4.89	2.37	178.40	769.7	3329.8
MEAN	20.9	147	142	111	133	162	5.83	.16	.079	5.75	24.8	111
MAX	99	1480	773	637	905	1550	18	.77	.90	29	70	508
MIN	1.4	5.6	26	33	34	19	.73	.02	.00	.01	4.2	5.2
CFSM	.50	3.51	3.38	2.63	3.16	3.86	.14	.00	.00	.14	.59	2.64
IN.	.58	3.91	3.90	3.04	3.29	4.45	.16	.00	.00	.16	.68	2.95

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1998, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	24.0	14.7	15.6	20.7	22.5	31.6	16.5	4.93	27.8	41.4	63.7	82.5									
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	.24	.061	.021	2.32	2.48	2.74									
(WY)	1985	1985	1985	1985	1985	1985	1985	1985	1997	1993	1993	1984									

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1978 - 1998
ANNUAL TOTAL	11660.69	26098.68	
ANNUAL MEAN	31.9	71.5	30.5
HIGHEST ANNUAL MEAN			71.5
LOWEST ANNUAL MEAN			6.44
HIGHEST DAILY MEAN	1480	Nov 14	1550
LOWEST DAILY MEAN	.00	Many Days	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 19	.00
INSTANTANEOUS PEAK FLOW		2500	3210
INSTANTANEOUS PEAK STAGE		23.65	24.34
ANNUAL RUNOFF (CFSM)	.76	1.70	.73
ANNUAL RUNOFF (INCHES)	10.33	23.12	9.87
10 PERCENT EXCEEDS	73	168	73
50 PERCENT EXCEEDS	2.5	19	6.4
90 PERCENT EXCEEDS	.07	.05	.36

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 1997 TO SEPTEMBER 1998

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)
MAY												
06...	1210	8.92	.25	183	5.50	21.0	120	6.9	13	8.0	7.2	4.7
JUN												
04...	1215	8.80	.06	206	6.30	25.0	--	4.8	--	--	--	--
AUG												
06...	1155	10.19	40	80	5.50	24.0	--	7.6	--	--	--	--
SEP												
30...	1411	12.50	149	77	5.40	24.5	640	6.0	5.0	2.7	5.6	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)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
MAY												
06...	15	20	6.2	3.2	134	<.01	.11	.03	.46	.36	.34	89
JUN												
04...	--	--	--	--	--	<.01	.12	.04	.60	.48	.49	--
AUG												
06...	--	--	--	--	--	.02	.09	.06	1.3	.43	.31	--
SEP												
30...	6.3	7.5	.21	4.8	126	.01	.02	.03	1.3	.50	.44	46

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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02297310 HORSE CREEK NEAR ARCADIA, FL

LOCATION.--Lat 27°11'57", long 81°59'19", in NW¹/₄ 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 mi².

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1880	50	471	859	711	516	395	20	7.5	6.8	40	95
2	1560	55	411	799	599	476	328	21	7.3	6.0	83	84
3	1160	88	354	709	797	407	275	18	6.3	4.7	51	76
4	958	103	424	616	862	350	232	17	5.4	4.1	36	71
5	849	100	607	542	807	309	195	19	4.8	3.9	29	118
6	747	104	605	476	754	283	163	16	4.5	3.8	60	105
7	642	115	550	414	862	264	138	15	4.4	4.2	72	102
8	532	122	501	385	856	244	119	14	4.3	27	243	91
9	436	121	470	382	784	429	105	13	6.5	16	364	128
10	353	113	449	336	671	798	94	12	41	12	377	111
11	284	101	417	300	574	882	81	11	28	11	271	147
12	229	89	383	285	500	755	70	10	18	42	218	139
13	186	94	785	295	438	598	61	9.9	15	281	197	125
14	149	939	2300	311	382	491	55	9.2	14	161	177	118
15	124	3190	2680	327	340	413	50	8.5	12	175	160	119
16	105	4670	2810	524	577	348	45	7.7	9.2	200	154	131
17	89	3950	2640	560	926	295	41	7.4	7.7	187	166	133
18	77	3030	2180	566	2080	254	38	6.9	6.6	147	162	137
19	70	2310	1670	609	3320	897	34	6.5	6.0	120	208	143
20	60	1670	1200	641	3120	4490	32	6.2	5.8	105	212	350
21	52	1140	937	619	2610	5000	31	5.9	5.4	105	248	727
22	46	929	792	559	2120	5520	32	6.1	5.0	115	357	926
23	42	929	675	781	1660	4070	29	5.9	4.5	111	350	829
24	38	1170	583	1780	1220	2870	26	5.6	5.0	107	282	808
25	36	914	515	1370	975	2230	24	5.2	7.7	89	210	908
26	34	771	485	1260	846	1680	23	5.1	10	74	167	1300
27	34	712	578	1710	712	1200	22	5.1	9.6	65	144	1840
28	43	653	819	1520	586	935	21	5.8	7.4	59	162	1580
29	48	585	843	1160	---	780	19	6.3	5.8	51	172	1440
30	49	521	832	949	---	608	19	5.9	5.1	44	136	1350
31	50	---	855	820	---	482	---	6.6	---	38	112	---
TOTAL	10962	29338	29821	22464	30689	38874	2797	311.8	279.8	2375.5	5620	14231
MEAN	354	978	962	725	1096	1254	93.2	10.1	9.33	76.6	181	474
MAX	1880	4670	2810	1780	3320	5520	395	21	41	281	377	1840
MIN	34	50	354	285	340	244	19	5.1	4.3	3.8	29	71
CFSM	1.62	4.49	4.41	3.32	5.03	5.75	.43	.05	.04	.35	.83	2.18
IN.	1.87	5.01	5.09	3.83	5.24	6.63	.48	.05	.05	.41	.96	2.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1998, BY WATER YEAR (WY)

	MEAN	260	90.4	65.8	102	118	164	79.1	29.0	185	311	403	485
MAX	1335	978	962	725	1096	1254	557	338	1854	1742	1571	1696	1696
(WY)	1953	1998	1998	1998	1998	1998	1998	1957	1982	1968	1960	1960	1960
MIN	5.11	2.58	2.25	3.17	3.31	1.06	.30	.26	.18	2.29	20.7	21.9	21.9
(WY)	1985	1962	1957	1974	1975	1975	1975	1967	1956	1956	1980	1984	1984

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1951 - 1998

ANNUAL TOTAL	95178.45	187763.1	191	1998
ANNUAL MEAN	261	514	38.4	1956
HIGHEST ANNUAL MEAN			514	
LOWEST ANNUAL MEAN			38.4	
HIGHEST DAILY MEAN	4670	Nov 16	10700	Aug 1 1960
LOWEST DAILY MEAN	.55	Apr 10	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.62	Apr 4	.01	Jun 24 1956
INSTANTANEOUS PEAK FLOW			5870	Mar 22
INSTANTANEOUS PEAK STAGE			16.42	Mar 22
ANNUAL RUNOFF (CFSM)	1.20	2.36	17.94	Aug 1 1960
ANNUAL RUNOFF (INCHES)	16.24	32.04	.88	
10 PERCENT EXCEEDS	726	1280	11.93	
50 PERCENT EXCEEDS	28	186	517	
90 PERCENT EXCEEDS	3.1	6.9	47	
			3.5	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 1997 TO SEPTEMBER 1998

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) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)
NOV 20...	1025	12.91	1710	72	4.40	18.0	--	7.2	--	--	--	--
DEC 17...	1130	14.17	2660	88	5.15	14.0	280	8.0	6.1	3.2	4.1	2.7
APR 16...	1005	3.02	46	290	5.60	19.0	140	7.1	29	10	8.3	2.9
JUN 02...	1040	1.88	7.8	451	6.90	26.0	--	6.1	--	--	--	--
SEP 02...	1001	3.79	84	250	5.60	26.0	280	6.2	23	9.6	7.0	3.9
17...	1000	4.62	133	200	4.70	24.0	240	6.8	17	7.5	7.1	3.5
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)	STRON- TIUM, DIS- SOLVED (UG/L) AS SR) (01080)
NOV 20...	--	--	--	--	--	<.01	.09	.04	.76	.34	.32	--
DEC 17...	10	9.0	.14	3.1	94	<.01	.12	.06	.95	--	.33	110
APR 16...	65	17	.31	6.2	206	<.01	.76	.07	.79	.43	.41	420
JUN 02...	--	--	--	--	--	<.01	.34	.04	.40	.41	.45	--
SEP 02...	59	18	.26	7.9	224	.01	.31	.06	1.4	.42	.38	450
17...	38	16	.23	7.1	188	.01	.24	.04	.89	.37	.35	310

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

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PEACE RIVER BASIN

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

LOCATION.--Lat 27°04'38", long 82°00'27", in SW¹/₄ 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.

DRAINAGE AREA.--1,780 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--November 1997 to September 1998 (gage heights only).

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.63 ft, Mar. 24; minimum, 0.95 ft below NGVD, May 16.

GAGE HEIGHT, FEET, PERIOD NOVEMBER 1997 TO SEPTEMBER 1998

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	---	---	---	---	2.39	.24	1.13	.72	2.03	1.31	2.50	1.77
2	---	---	---	---	1.46	-.36	1.35	.75	2.69	1.33	2.01	1.24
3	---	---	---	---	1.62	-.42	1.39	.67	3.43	1.90	2.07	.96
4	---	---	---	---	1.89	-.18	1.42	.58	3.32	2.37	1.72	.89
5	---	---	---	---	1.40	-.45	1.52	.58	2.47	1.24	2.05	.67
6	---	---	---	---	.70	-.36	1.62	.40	1.70	.77	1.99	.73
7	---	---	1.74	-.18	.98	-.23	2.02	.33	1.77	.93	2.20	.70
8	---	---	1.19	-.55	1.49	.03	2.02	.93	1.91	.97	2.71	1.06
9	---	---	1.41	-.44	1.60	.09	1.87	.26	1.88	.83	2.92	1.22
10	---	---	1.66	-.10	1.66	.12	1.29	-.16	1.75	.68	1.64	.45
11	---	---	1.72	-.28	1.78	-.10	1.15	-.25	2.08	.85	1.19	.52
12	---	---	1.77	-.44	1.98	-.11	1.24	-.22	2.29	.72	1.20	.63
13	---	---	2.35	.40	1.93	-.07	1.78	.06	1.71	.31	1.41	.70
14	---	---	3.04	.78	2.11	.78	1.64	-.04	1.25	-.06	1.34	.57
15	---	---	1.88	.15	2.17	1.37	1.80	.21	1.49	-.09	1.26	.48
16	---	---	1.86	.98	2.35	2.10	2.23	.83	2.21	.54	1.55	.47
17	---	---	2.56	1.86	2.60	2.31	1.29	.31	2.78	1.49	1.99	.50
18	---	---	3.00	2.56	2.76	2.50	1.37	.49	2.13	1.08	2.13	.53
19	---	---	3.17	2.88	2.66	2.42	1.94	.86	2.66	1.61	2.23	.60
20	---	---	2.92	2.55	2.51	2.23	1.72	.73	3.21	2.62	3.39	1.72
21	---	---	2.67	2.13	2.48	2.12	1.56	.66	3.58	3.21	3.84	3.18
22	---	---	2.49	1.81	2.47	1.99	2.08	.58	3.94	3.54	5.04	3.84
23	---	---	2.30	1.44	2.36	1.64	2.05	.72	4.12	3.38	5.62	5.04
24	---	---	1.84	1.08	2.22	1.49	2.08	.84	3.38	2.61	5.63	5.34
25	---	---	1.61	1.00	2.25	1.31	1.82	1.22	2.72	2.24	5.35	4.70
26	---	---	1.73	1.00	2.03	.83	2.33	1.42	2.72	2.10	4.70	3.92
27	---	---	1.86	.79	2.38	1.45	2.81	2.06	2.92	2.14	3.92	3.25
28	---	---	1.77	.56	1.77	.59	2.69	1.91	2.77	2.06	3.26	2.79
29	---	---	1.99	.45	2.20	1.39	2.49	1.88	---	---	2.90	2.27
30	---	---	2.31	.46	2.56	1.32	2.56	1.84	---	---	2.52	2.02
31	---	---	---	---	1.97	1.09	2.42	1.66	---	---	2.70	1.83
MONTH	---	---	---	---	2.76	-.45	2.81	-.25	4.12	-.09	5.63	.45

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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

GAGE HEIGHT, FEET, PERIOD NOVEMBER 1997 TO SEPTEMBER 1998

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	2.53	1.65	1.87	-.07	1.42	-.51	1.31	-.20	1.66	-.46	1.92	-.18
2	2.19	1.33	1.31	-.56	1.52	-.08	1.31	-.40	1.63	-.37	2.52	-.84
3	1.98	.91	1.08	-.84	1.41	-.21	1.16	-.55	1.72	-.51	3.40	1.08
4	1.97	.92	1.57	-.55	1.55	-.08	1.07	-.57	1.74	-.83	2.16	-.29
5	1.72	.44	1.63	-.42	1.67	-.34	1.32	-.69	1.89	-.69	1.85	-.55
6	1.12	-.04	1.54	-.38	1.83	-.32	1.74	-.66	1.98	-.69	2.14	-.55
7	1.80	.15	1.80	-.09	1.69	-.61	2.00	-.56	2.06	-.68	2.19	-.12
8	2.11	.40	2.26	.51	1.35	-.86	1.77	-.83	2.06	-.58	2.22	.20
9	2.36	.73	1.90	-.24	1.69	-.79	1.90	-.83	1.92	-.60	2.08	.25
10	1.39	-.10	2.41	.05	1.87	-.69	1.89	-.71	1.84	-.57	1.98	.01
11	.86	-.77	1.80	-.48	2.03	-.85	2.36	-.66	1.78	-.40	1.75	-.21
12	.95	-.81	1.79	-.53	1.91	-.83	2.34	-.34	1.50	-.27	1.82	-.07
13	1.49	-.54	1.69	-.72	1.71	-.73	1.91	-.16	1.44	-.47	1.96	-.08
14	2.07	-.39	1.64	-.82	1.84	-.61	1.90	-.17	1.44	-.52	1.83	.07
15	2.10	-.17	1.50	-.82	1.74	-.46	1.62	.07	1.54	-.67	1.87	-.09
16	2.18	-.14	1.66	-.95	1.78	-.40	1.48	-.08	1.55	-.45	2.11	.14
17	2.00	-.04	1.89	-.85	1.42	-.31	1.60	-.09	1.73	-.50	2.56	.58
18	1.89	-.39	1.68	-.67	1.38	-.41	1.68	-.29	1.69	-.37	2.48	.64
19	1.90	-.45	1.44	-.53	1.64	-.44	1.72	-.59	1.80	-.53	2.89	1.05
20	1.57	-.19	1.20	-.71	1.68	-.62	1.98	-.45	1.92	-.47	2.38	.91
21	1.41	-.62	1.40	-.69	1.88	-.78	2.16	-.49	1.58	-.65	2.33	.91
22	1.39	-.53	1.61	-.42	1.65	-.92	1.91	-.53	1.97	-.69	2.15	1.08
23	1.21	-.43	1.84	-.47	1.77	-.87	2.06	-.53	1.94	-.26	2.17	1.10
24	1.26	-.59	1.89	-.64	1.99	-.86	1.84	-.49	1.77	-.07	2.02	.93
25	1.47	-.75	2.08	-.51	1.76	-.78	1.85	-.51	1.78	-.25	1.12	.30
26	1.84	-.75	2.23	-.54	1.82	-.89	1.64	-.54	1.83	.05	3.08	.45
27	1.94	-.48	2.10	-.43	1.67	-.81	1.77	-.51	1.90	.19	2.56	1.79
28	1.87	-.55	1.96	-.57	1.68	-.78	1.61	-.43	1.81	.17	2.31	1.84
29	1.75	-.86	1.89	-.78	1.25	-.72	1.39	-.34	1.77	-.04	2.50	1.94
30	2.27	-.73	1.62	-.71	1.29	-.32	1.50	-.11	1.77	-.07	2.96	2.24
31	---	---	1.56	-.71	---	---	1.64	-.08	1.85	-.21	---	---
MONTH	2.53	-.86	2.41	-.95	2.03	-.92	2.36	-.83	2.06	-.83	3.40	-.55

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WATER-QUALITY RECORDS

[illegible]

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD NOVEMBER 1997 SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	182	168	299	278	472	450	625	472	430	415	385	377
2	192	182	312	297	479	457	564	484	431	416	393	378
3	204	192	315	305	471	459	523	493	424	399	1770	383
4	212	203	331	315	474	458	529	501	414	400	431	389
5	217	211	337	327	466	457	566	506	422	406	401	391
6	219	214	341	331	471	455	1070	521	414	390	403	367
7	220	215	349	335	475	460	2510	541	411	390	367	345
8	221	216	343	331	484	462	1070	544	415	388	373	354
9	220	216	336	328	491	464	948	535	414	335	394	371
10	223	217	340	328	482	441	907	522	354	328	375	337
11	234	221	336	327	601	455	2810	529	364	333	337	280
12	239	228	340	326	584	474	1030	555	379	358	303	281
13	234	231	346	330	553	480	590	322	388	375	302	282
14	235	231	347	338	638	480	406	326	393	380	295	279
15	241	233	346	337	607	480	430	406	395	374	303	294
16	243	237	350	337	669	484	489	430	391	369	309	301
17	253	241	349	340	599	490	481	466	387	355	315	306
18	248	241	353	345	578	490	466	438	381	353	322	314
19	252	241	360	348	668	493	446	437	378	354	328	303
20	254	248	368	353	696	497	460	444	366	321	303	260
21	259	248	375	357	1020	494	477	435	358	307	260	229
22	270	252	377	357	799	492	478	461	376	349	230	222
23	274	265	392	363	975	494	465	448	351	337	231	224
24	285	269	452	370	1950	497	464	447	341	319	238	226
25	285	274	662	375	1180	492	466	453	355	320	236	228
26	278	267	1270	385	1410	498	457	445	364	349	230	222
27	278	265	1250	395	1130	508	453	440	368	356	222	201
28	276	267	953	405	1240	518	451	439	366	355	202	190
29	279	267	959	413	791	524	463	446	358	341	190	181
30	278	275	542	422	646	464	460	441	365	344	183	177
31	---	---	495	435	---	---	454	419	378	360	---	---
MONTH	285	168	1270	278	1950	441	2810	322	431	307	1770	177

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD NOVEMBER 1997 SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	---	---	---	---	221	206	192	190	178	164	181	174
2	---	---	---	---	232	221	195	192	187	178	190	181
3	---	---	---	---	240	232	199	194	200	186	197	190
4	---	---	---	---	242	238	202	197	202	198	198	195
5	---	---	---	---	260	238	206	201	198	188	198	194
6	---	---	---	---	238	232	211	206	188	183	202	196
7	---	---	384	375	243	233	216	210	193	182	205	201
8	---	---	377	362	250	241	217	214	203	193	209	204
9	---	---	364	340	254	247	233	217	207	202	211	207
10	---	---	346	328	256	252	235	231	208	206	212	181
11	---	---	332	322	258	252	234	230	210	206	181	166
12	---	---	326	321	262	256	235	229	212	208	169	164
13	---	---	339	312	260	230	234	228	222	211	178	169
14	---	---	609	256	231	175	232	227	229	222	188	177
15	---	---	256	123	175	151	228	221	232	225	198	188
16	---	---	130	97	152	139	228	216	231	223	203	198
17	---	---	97	76	140	130	230	223	234	212	208	203
18	---	---	79	75	131	129	223	212	212	170	214	207
19	---	---	89	79	137	130	212	209	170	122	214	158
20	---	---	103	88	148	137	211	208	122	94	158	122
21	---	---	121	103	163	148	212	210	96	93	122	85
22	---	---	139	121	175	162	216	212	101	95	86	72
23	---	---	163	139	186	175	217	212	111	100	72	65
24	---	---	163	153	197	186	213	158	125	110	69	64
25	---	---	156	150	206	197	158	141	141	125	75	68
26	---	---	170	156	213	206	142	136	155	141	88	74
27	---	---	182	170	218	210	136	131	165	155	106	88
28	---	---	189	182	217	209	131	129	174	165	127	106
29	---	---	198	189	215	204	138	130	---	---	145	126
30	---	---	206	198	204	195	152	138	---	---	162	145
31	---	---	---	---	195	191	165	152	---	---	175	159
MONTH	---	---	---	---	262	129	235	129	234	93	214	64
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	183	172	303	284	464	455	616	475	427	414	393	377
2	195	183	316	301	471	453	545	486	430	417	396	380
3	206	194	317	308	463	453	522	495	425	400	2040	389
4	215	206	332	317	463	451	528	501	419	402	437	400
5	220	213	337	329	460	452	552	507	423	408	410	398
6	222	218	342	332	468	452	1140	520	412	391	412	388
7	223	219	349	333	481	461	2500	538	410	393	388	360
8	224	219	347	330	486	473	1070	543	416	392	383	365
9	224	219	338	327	494	469	931	539	413	339	404	375
10	226	222	338	327	481	440	931	527	358	332	377	339
11	235	225	333	324	615	452	2840	533	367	337	340	282
12	240	233	335	323	578	468	1040	565	382	361	305	282
13	240	236	344	327	544	476	600	346	392	377	304	284
14	241	236	350	334	635	477	420	348	396	383	297	280
15	248	240	343	333	592	477	443	420	398	377	305	296
16	250	243	351	334	666	480	501	443	392	372	310	302
17	260	249	350	336	569	485	501	481	387	355	317	308
18	255	248	347	340	561	486	484	452	384	356	324	316
19	261	248	352	344	663	489	457	448	383	359	329	305
20	262	256	360	349	702	493	466	453	369	324	306	261
21	266	255	365	354	987	490	482	443	359	305	262	233
22	278	261	368	354	776	488	481	468	377	354	234	225
23	282	274	383	360	1010	490	468	454	354	340	237	230
24	292	276	428	366	1940	492	468	452	342	307	241	231
25	292	282	647	371	1260	489	469	455	358	323	240	233
26	284	275	1330	380	1440	494	460	447	369	353	235	229
27	284	274	1170	390	1140	507	455	440	372	359	229	208
28	282	276	906	406	1270	518	453	439	369	359	208	197
29	283	271	875	422	788	522	460	445	362	344	197	188
30	284	279	543	436	625	466	456	439	371	345	189	179
31	---	---	485	439	---	---	448	418	382	364	---	---
MONTH	292	172	1330	284	1940	440	2840	346	430	305	2040	179

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD NOVEMBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	---	---	---	---	20.4	19.4	---	---	16.0	15.0	21.1	20.3
2	---	---	---	---	---	---	---	---	16.9	15.8	20.7	19.7
3	---	---	---	---	---	---	16.2	14.2	17.5	16.9	19.7	18.7
4	---	---	---	---	19.7	19.2	---	---	17.5	17.2	18.7	17.8
5	---	---	---	---	---	---	---	---	---	---	18.4	17.2
6	---	---	---	---	---	---	20.0	18.4	---	---	19.1	17.7
7	---	---	21.4	21.0	---	---	20.7	19.7	15.5	14.7	19.7	18.4
8	---	---	21.0	20.0	---	---	21.1	20.7	14.7	13.9	20.7	19.1
9	---	---	20.3	19.3	16.9	15.2	---	---	14.5	13.4	21.4	20.7
10	---	---	20.0	18.7	19.4	16.6	---	---	14.7	13.4	20.7	19.3
11	---	---	20.0	18.8	20.4	18.4	---	---	15.8	14.4	19.3	17.8
12	---	---	20.7	19.3	20.7	20.4	---	---	---	---	17.8	16.3
13	---	---	21.0	20.0	20.7	20.3	---	---	---	---	16.4	15.2
14	---	---	22.5	21.0	20.3	17.5	---	---	---	---	16.4	15.2
15	---	---	22.5	21.4	18.7	16.9	---	---	---	---	16.6	15.2
16	---	---	21.7	20.7	16.9	16.3	---	---	---	---	17.2	16.0
17	---	---	20.7	19.3	16.8	15.8	---	---	19.7	18.1	18.1	16.6
18	---	---	19.3	18.7	15.8	15.2	---	---	20.7	19.3	19.0	18.1
19	---	---	19.1	18.7	15.3	14.7	---	---	20.7	20.0	19.4	18.7
20	---	---	19.4	18.7	15.5	15.0	---	---	21.4	20.7	20.0	19.0
21	---	---	19.7	19.0	16.1	15.5	---	---	20.7	20.0	19.7	19.0
22	---	---	20.7	19.7	17.2	16.1	18.7	16.9	20.7	20.0	19.0	18.4
23	---	---	21.0	20.7	18.1	17.2	19.0	18.7	21.1	20.7	18.4	17.7
24	---	---	21.0	19.7	19.4	18.1	19.4	18.7	20.7	19.7	18.1	17.5
25	---	---	---	---	20.7	19.4	18.8	16.4	19.7	18.7	18.7	17.8
26	---	---	19.7	19.0	21.4	20.7	17.5	16.9	19.1	18.4	19.0	18.4
27	---	---	19.7	18.7	21.4	20.7	17.5	17.2	19.7	18.8	19.7	18.7
28	---	---	19.7	18.7	20.7	18.7	17.2	16.6	20.7	19.6	20.4	19.3
29	---	---	20.0	19.7	18.7	16.9	16.6	16.0	---	---	21.4	20.3
30	---	---	20.5	20.0	16.9	15.5	16.3	15.5	---	---	21.8	21.0
31	---	---	---	---	---	---	16.4	15.5	---	---	22.9	21.7
MONTH	---	---	---	---	---	---	---	---	---	---	22.9	15.2
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	23.7	22.5	25.5	24.0	30.0	28.5	31.7	29.5	31.7	30.0	31.7	30.1
2	24.1	23.2	25.8	24.0	30.6	29.0	32.3	30.5	31.1	29.5	30.8	30.0
3	24.8	23.6	26.5	24.4	31.7	29.5	32.9	31.1	32.3	29.5	30.1	29.5
4	25.3	24.0	26.6	24.8	32.3	30.0	32.9	31.7	32.2	30.0	30.1	28.5
5	24.9	23.6	26.2	24.4	32.3	31.1	32.3	31.6	32.1	30.0	30.6	29.0
6	24.1	22.8	27.6	24.7	32.3	31.1	31.7	31.1	30.6	29.5	30.6	29.0
7	24.1	22.8	27.6	25.9	32.3	31.1	31.7	30.5	31.1	29.5	30.0	28.5
8	24.1	22.9	27.9	26.6	32.3	31.1	31.1	30.0	31.1	28.5	29.5	28.4
9	24.1	23.6	29.0	27.0	31.7	30.3	31.7	30.0	31.7	29.5	29.5	28.0
10	24.1	22.8	28.5	27.3	32.3	30.0	31.1	30.1	32.3	28.5	29.0	28.0
11	23.6	22.1	29.4	27.5	32.7	30.5	31.1	29.5	31.1	29.0	28.5	27.5
12	22.7	21.4	29.5	27.0	32.3	30.5	31.1	29.0	31.1	29.5	28.0	27.0
13	23.3	21.3	29.5	27.5	32.3	30.5	29.0	27.1	32.3	30.0	27.5	27.0
14	23.0	21.0	30.2	27.5	32.3	30.8	27.5	27.0	32.3	30.5	27.6	27.0
15	24.1	21.0	30.0	28.0	32.3	31.1	27.1	26.6	32.3	31.1	28.5	27.4
16	24.1	21.7	29.5	27.5	32.3	31.1	28.2	26.3	32.9	31.1	27.5	27.0
17	25.3	22.5	29.5	27.5	32.9	31.1	29.5	27.5	34.1	30.0	27.5	27.0
18	25.2	23.2	29.5	27.5	32.9	31.5	30.1	28.5	32.9	30.0	27.5	26.6
19	26.2	24.0	29.5	27.5	33.5	31.7	31.1	29.5	32.3	30.0	27.5	26.6
20	26.6	24.8	29.5	27.5	32.9	31.7	31.7	28.5	31.1	28.5	26.6	25.8
21	26.1	24.8	30.6	28.0	32.3	31.1	30.0	27.5	29.5	27.5	26.2	25.7
22	25.7	23.6	30.1	28.5	32.3	30.0	30.6	27.5	29.5	27.5	27.1	26.1
23	24.5	22.8	30.3	28.5	32.9	30.5	31.7	28.0	29.5	27.0	27.6	26.5
24	24.1	22.1	30.1	28.5	32.9	31.1	32.3	29.5	30.0	27.5	28.0	27.0
25	24.1	22.0	30.2	28.5	31.7	30.5	32.9	30.0	31.2	28.5	27.5	26.6
26	24.1	22.5	30.0	29.0	31.1	30.0	32.3	30.5	32.3	29.5	26.6	26.1
27	25.8	22.5	29.5	29.0	31.7	29.5	33.5	30.5	32.9	29.5	27.1	26.1
28	25.7	23.5	29.5	28.1	31.7	29.5	33.5	31.1	32.2	30.5	27.5	26.2
29	25.7	24.0	29.5	27.5	32.2	30.1	32.9	31.1	31.1	30.1	27.6	26.6
30	24.9	24.0	29.5	27.6	31.6	29.0	32.9	31.6	31.1	30.4	27.5	27.0
31	---	---	29.5	28.0	---	---	32.3	31.6	31.6	30.0	---	---
MONTH	26.6	21.0	30.6	24.0	33.5	28.5	33.5	26.3	34.1	27.0	31.7	25.7

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD NOVEMBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	---	---	---	---	20.7	20.0	15.4	14.0	16.1	15.2	21.1	20.3
2	---	---	---	---	20.0	19.0	14.7	13.9	16.9	15.8	20.7	19.7
3	---	---	---	---	19.8	19.0	15.3	14.2	17.5	16.9	19.7	18.7
4	---	---	---	---	19.7	19.7	16.9	15.2	17.8	17.2	18.7	18.0
5	---	---	---	---	20.0	19.3	18.4	16.9	17.2	16.6	18.4	17.2
6	---	---	---	---	19.3	18.0	19.7	18.4	17.2	15.5	19.1	17.8
7	---	---	21.4	20.9	18.0	16.3	20.7	19.7	15.5	14.7	19.7	18.6
8	---	---	21.0	20.0	16.3	15.2	21.2	20.7	14.7	13.9	20.7	19.3
9	---	---	20.0	19.3	16.6	15.2	21.4	20.7	14.5	13.5	21.4	20.7
10	---	---	20.0	18.7	18.4	16.6	21.0	20.0	14.9	13.5	20.7	19.3
11	---	---	20.0	19.0	20.4	18.4	20.0	18.7	15.8	14.4	19.3	18.1
12	---	---	20.7	19.3	20.9	20.4	19.0	18.1	17.2	15.8	18.1	16.4
13	---	---	21.0	20.0	20.9	20.3	18.7	17.8	17.2	16.3	16.4	15.3
14	---	---	22.5	21.0	20.3	18.7	18.4	17.8	17.2	16.3	16.4	15.2
15	---	---	22.5	21.7	18.7	17.2	18.5	18.1	17.2	16.1	16.6	15.2
16	---	---	22.1	20.7	17.2	16.3	19.0	18.5	18.1	16.9	17.3	16.0
17	---	---	20.7	19.3	16.3	15.8	18.7	17.8	19.7	18.1	18.1	16.6
18	---	---	19.3	18.7	15.8	15.2	18.1	17.2	20.7	19.3	19.0	18.1
19	---	---	19.1	18.7	15.3	14.7	17.6	17.2	20.7	20.0	19.4	18.7
20	---	---	19.4	18.7	15.8	15.0	17.5	17.2	21.4	20.7	20.0	19.0
21	---	---	19.7	19.0	16.1	15.5	18.1	17.2	20.7	20.0	19.7	19.0
22	---	---	20.7	19.7	17.2	16.1	18.7	17.6	20.7	20.0	19.0	18.4
23	---	---	21.0	20.7	18.1	17.2	19.0	18.7	21.1	20.7	18.4	17.8
24	---	---	21.0	20.3	19.4	18.1	19.4	19.0	20.7	19.7	18.1	17.5
25	---	---	20.3	19.7	20.7	19.4	19.0	17.5	19.7	18.7	18.7	17.8
26	---	---	19.7	19.0	21.4	20.7	17.5	16.9	19.1	18.5	19.0	18.4
27	---	---	19.7	18.7	21.4	20.7	17.5	17.2	20.0	19.0	19.7	18.7
28	---	---	20.0	18.7	20.7	18.7	17.2	16.6	20.7	19.7	20.4	19.6
29	---	---	20.0	19.7	18.7	16.9	16.6	16.0	---	---	21.4	20.3
30	---	---	20.7	20.0	16.9	16.0	16.4	15.5	---	---	21.8	21.1
31	---	---	---	---	16.1	15.2	16.4	15.5	---	---	22.9	21.7
MONTH	---	---	---	---	21.4	14.7	21.4	13.9	21.4	13.5	22.9	15.2
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	23.7	22.5	25.3	24.0	30.0	28.5	31.7	29.5	31.6	30.0	31.7	30.4
2	24.1	23.3	25.8	24.0	30.6	29.0	32.3	30.6	31.1	29.5	31.1	30.0
3	24.9	23.6	26.6	24.4	31.2	29.5	32.9	31.1	31.6	29.5	30.3	29.5
4	25.3	24.0	26.2	24.8	31.7	30.0	32.9	31.7	31.7	30.0	30.1	28.7
5	24.9	23.6	26.2	24.4	32.3	31.1	32.3	31.6	31.7	30.0	30.6	29.0
6	24.2	22.8	27.6	24.8	32.3	31.1	31.7	31.1	30.8	29.5	30.9	29.0
7	24.1	22.8	27.6	26.1	32.3	31.1	32.3	30.5	31.1	29.5	30.0	28.5
8	24.1	22.9	27.8	26.6	32.3	31.1	31.1	30.0	31.1	28.5	29.5	28.5
9	24.1	23.6	28.5	27.0	31.7	30.5	31.7	30.0	31.1	29.5	29.5	28.4
10	24.1	22.9	28.5	27.5	32.3	30.0	31.1	30.3	31.2	28.5	29.5	28.0
11	23.6	22.1	29.2	27.5	32.4	30.5	31.1	29.7	31.1	29.5	28.5	27.5
12	22.9	21.4	29.5	27.0	32.3	30.5	31.1	29.1	31.5	29.5	28.0	27.0
13	22.9	21.4	29.5	27.5	32.3	30.5	29.1	27.1	32.3	30.0	27.5	27.0
14	22.9	21.0	30.2	27.5	32.3	31.0	27.5	27.0	32.3	30.5	27.7	27.0
15	23.7	21.0	30.0	28.0	32.3	31.1	27.2	26.9	32.3	31.1	28.5	27.5
16	24.1	21.7	29.5	27.5	32.3	31.1	28.5	26.6	32.3	31.1	27.5	27.0
17	24.5	22.5	29.5	27.5	32.3	31.1	29.5	27.5	32.9	30.4	27.5	27.0
18	25.2	23.2	29.5	27.5	32.9	31.6	30.1	28.5	32.3	30.0	27.5	26.6
19	25.7	24.0	29.0	27.5	33.0	31.7	30.1	29.5	32.3	30.0	27.5	27.0
20	26.4	24.8	29.5	27.5	32.9	31.7	30.0	28.5	31.1	28.5	27.0	26.1
21	25.7	24.8	30.1	28.1	32.3	31.1	29.5	27.9	29.5	27.5	26.6	25.7
22	25.3	23.6	30.1	28.5	32.3	30.0	30.0	27.5	29.5	27.5	27.1	26.1
23	24.1	22.8	30.1	28.5	32.9	30.5	30.1	28.0	29.0	27.1	27.6	26.6
24	23.7	22.1	30.1	28.5	32.9	31.1	31.7	29.5	29.5	27.5	28.0	27.0
25	24.1	22.1	30.3	28.5	31.7	30.5	32.3	30.0	31.1	28.5	27.5	26.6
26	24.1	22.5	30.0	29.0	31.1	30.0	32.3	31.0	31.7	29.5	26.6	26.1
27	25.3	22.7	29.5	29.0	31.7	29.5	33.5	30.8	32.9	29.5	27.1	26.1
28	25.9	23.6	29.5	28.3	31.7	29.5	33.5	31.1	32.3	30.5	27.5	26.5
29	25.7	24.0	29.5	27.5	32.3	30.1	32.9	31.2	31.1	30.4	27.6	27.0
30	24.9	24.0	29.5	27.8	31.7	29.0	32.9	31.6	31.1	30.5	27.6	27.0
31	---	---	29.5	28.1	---	---	32.3	31.6	31.7	30.0	---	---
MONTH	26.4	21.0	30.3	24.0	33.0	28.5	33.5	26.6	32.9	27.1	31.7	25.7

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL

LOCATION (corrected).--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 mi².

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, 1.91 ft below NGVD, Feb. 17, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.59 ft, Sept. 3; minimum, 1.89 ft below NGVD, Jan. 1.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	1.63	.01	2.54	.55	2.41	-.34	-.13	-1.89	1.59	-.39	2.16	.19
2	1.89	.09	2.85	.39	1.49	-.87	.55	-1.24	2.56	-.01	1.29	-.26
3	1.60	-.37	1.58	-.66	1.65	-.81	.93	-.96	3.41	1.01	1.85	-.54
4	1.75	-.36	1.50	-.91	1.93	-.53	1.13	-.71	2.74	1.94	1.48	-.43
5	1.73	-.63	1.36	-.99	1.46	-.99	1.37	-.33	1.96	.10	1.93	-.51
6	1.40	-.76	1.29	-.58	.56	-1.03	1.54	-.53	1.36	-.59	1.88	-.39
7	1.27	-.86	1.80	.04	.91	-.83	1.99	-.51	1.50	-.36	2.16	-.32
8	1.39	-.69	1.29	-.38	1.53	-.35	1.98	.38	1.54	-.60	2.54	.23
9	1.55	-.67	1.59	-.25	1.71	-.18	1.83	-.53	1.53	-.73	2.82	.57
10	1.38	-1.01	1.72	.08	1.80	-.10	1.21	-1.18	1.47	-.71	1.48	-.64
11	1.35	-.77	1.79	-.10	1.87	-.35	1.05	-1.39	1.99	-.26	.60	-1.22
12	1.68	-.32	2.08	-.31	2.03	-.38	1.25	-1.30	2.26	-.13	.47	-1.38
13	1.54	-.16	2.50	.50	2.07	-.65	1.78	-.82	1.65	-.40	.91	-.94
14	1.72	-.22	3.28	.63	2.06	-.50	1.61	-.88	1.17	-.78	.90	-1.02
15	1.80	-.31	1.92	-.63	1.59	-.68	1.74	-.37	1.40	-.68	.91	-.86
16	1.95	-.29	1.42	-.91	.97	-.69	2.20	.12	2.17	.15	1.38	-.69
17	2.16	-.24	.84	-1.06	1.08	-.57	1.07	-.66	2.72	.44	1.95	-.32
18	2.32	-.09	1.15	-.46	1.30	-.54	1.07	-.57	1.63	-.02	2.10	-.19
19	2.18	-.11	1.59	-.39	.95	-.68	1.77	.07	1.66	-.32	1.99	.02
20	1.58	-.65	1.23	-.33	1.10	-.42	1.35	-.14	1.34	.55	2.77	.09
21	1.63	-.40	1.54	-.20	1.58	.13	1.37	-.27	1.09	-.40	1.56	.81
22	1.87	.03	1.57	.04	1.66	.37	2.00	-.23	2.60	-.26	1.57	.11
23	1.72	-.13	1.55	-.11	1.41	.06	1.99	-.17	2.97	.88	1.41	.22
24	2.21	.75	1.05	-.73	1.96	.08	1.94	-.26	1.84	-.22	1.56	.17
25	2.25	.69	1.02	-1.19	1.95	.12	1.23	-1.10	1.29	-.54	1.57	.17
26	2.44	.97	1.50	-.59	2.03	-.37	2.14	-.94	1.92	-.27	1.64	-.01
27	2.62	.86	1.54	-.67	2.27	.59	2.43	.29	2.49	.46	1.55	.00
28	1.73	-.50	1.68	-.67	1.74	-1.11	2.10	-.39	2.38	.22	1.94	.09
29	1.38	-.34	1.95	-.49	1.99	.21	1.70	-.47	---	---	1.80	-.35
30	1.50	-.54	2.30	-.32	2.43	-.33	1.91	-.29	---	---	1.83	-.37
31	2.23	-.05	---	---	1.47	-.74	1.84	-.27	---	---	2.32	-.29
MONTH	2.62	-1.01	3.28	-1.19	2.43	-1.11	2.43	-1.89	3.41	-.78	2.82	-1.38

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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, 36,300 microsiemens, Apr. 23, 1997; 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, 21,200 microsiemens, July 11; bottom probe maximum, 23,400 microsiemens, July 11; top probe minimum, 78 microsiemens, Mar. 24, 25; bottom probe minimum, 81 microsiemens, Mar. 24, 25.

TEMPERATURE.--Top probe maximum, 35.4°C, July 29; bottom probe maximum, 35.7°C, July 29; top probe minimum, 11.7°C, Jan. 1; bottom probe minimum, 10.2°C, Jan. 1.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	621	220	15800	5050	781	215	399	198	227	169	221	185
2	559	232	17000	2320	381	214	230	202	366	182	243	195
3	587	241	5920	880	533	245	255	204	440	190	240	206
4	546	246	5520	654	2730	333	271	208	248	200	303	202
5	622	256	4700	636	612	252	270	210	237	201	256	206
6	687	256	7120	752	472	251	267	214	229	191	253	204
7	715	275	8660	2120	400	228	322	225	242	191	304	210
8	694	296	6670	1720	683	243	416	225	294	191	319	212
9	1260	315	7270	1320	671	251	333	229	327	207	294	212
10	753	333	7570	1440	376	256	313	238	288	212	278	215
11	1190	337	7970	790	411	267	344	253	301	221	241	180
12	2720	348	8940	607	469	272	333	254	344	221	296	175
13	2690	392	13400	2080	399	279	402	247	276	224	206	170
14	4720	415	17800	704	499	190	316	247	312	233	215	177
15	5340	454	2900	263	373	161	340	251	344	241	237	188
16	8160	798	1740	125	360	149	340	234	295	245	263	199
17	11600	740	963	90	273	146	327	236	427	247	272	202
18	12300	1110	313	85	222	145	322	236	307	224	247	210
19	11700	1430	305	87	253	143	295	223	266	159	250	190
20	6880	804	433	96	269	150	279	220	218	118	218	150
21	8080	1090	307	107	209	158	309	226	237	109	175	110
22	9460	981	264	120	310	173	288	225	217	109	163	90
23	8750	2960	275	134	292	173	297	231	168	114	128	79
24	14800	5480	517	160	248	191	308	204	171	121	120	78
25	15600	6410	512	151	295	200	422	154	190	136	115	78
26	15500	7170	213	152	291	211	303	147	216	149	125	83
27	16500	6020	211	93	288	221	194	143	216	163	126	96
28	9430	2250	255	173	306	225	287	140	256	174	144	114
29	6740	2550	733	191	249	223	226	137	---	---	179	130
30	8650	1430	2920	229	310	220	229	144	---	---	173	145
31	14200	2650	---	---	324	209	249	155	---	---	184	158
MONTH	16500	220	17800	85	2730	143	422	137	440	109	319	78

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN**

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	609	219	21900	5920	1230	230	357	193	233	173	227	190
2	545	226	23100	2840	419	229	273	199	549	187	255	200
3	572	235	9190	1030	610	264	280	202	528	195	273	209
4	534	241	7890	753	6340	363	273	206	256	205	335	208
5	608	252	6840	736	675	270	277	210	259	207	261	210
6	671	252	10100	903	513	269	280	214	268	196	249	210
7	700	269	14200	2620	433	242	325	226	250	197	313	216
8	684	291	8490	2140	1070	258	410	226	301	196	326	219
9	1650	313	10100	1530	815	265	311	231	337	212	279	218
10	1210	328	10400	1750	404	270	328	239	294	219	288	221
11	1300	333	11000	959	431	284	352	255	282	220	286	186
12	2970	349	12300	700	505	286	336	257	275	228	304	180
13	3280	393	18700	2570	428	292	463	250	285	231	214	175
14	5830	428	22800	909	529	195	320	250	308	241	248	182
15	6800	454	3600	305	390	164	347	254	352	248	237	193
16	10400	576	2010	136	362	151	319	237	302	253	262	203
17	14800	789	1120	91	283	142	331	238	440	255	273	207
18	15700	1180	350	89	222	136	336	240	297	231	256	217
19	13900	1490	350	91	254	134	298	225	275	162	251	195
20	7880	789	486	100	272	142	282	221	217	118	238	153
21	11900	1120	343	114	207	151	306	229	245	110	180	114
22	12700	3830	281	127	191	167	290	229	212	110	167	93
23	11500	3080	304	144	232	181	326	235	168	114	136	83
24	18600	6040	577	171	253	188	313	207	209	124	121	81
25	19500	7490	559	160	273	198	429	156	196	137	125	81
26	20200	8430	240	161	291	210	309	150	223	151	131	86
27	20600	7500	417	173	290	220	199	146	200	165	138	100
28	13400	2420	385	185	353	225	296	142	228	178	164	118
29	9880	2820	1590	204	252	222	230	141	---	---	170	135
30	12400	1610	6130	248	311	217	264	147	---	---	189	150
31	20200	3090	---	---	327	206	217	159	---	---	193	163
MONTH	20600	219	23100	89	6340	134	463	141	549	110	335	81

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	252	177	3550	450	11100	3300	13600	5930	9370	1070	10300	717
2	219	188	1070	344	10400	4160	13400	6750	8800	1470	14900	2410
3	234	199	1050	339	9640	3000	13700	6210	10800	910	21800	3460
4	242	207	1690	351	8490	3460	14600	6250	---	---	8530	997
5	266	218	1760	343	10300	3040	15600	7880	---	---	5440	804
6	277	224	1670	350	11900	2950	20200	7100	---	---	8000	893
7	302	228	2940	368	10900	2450	23100	8180	---	---	7260	686
8	287	231	7200	545	7540	2070	19500	6080	---	---	4960	644
9	309	237	3730	450	11500	2660	21100	6080	---	---	2760	547
10	310	233	7340	538	13000	2190	18600	5750	---	---	1210	478
11	302	235	3740	468	16000	2190	23400	5820	---	---	848	430
12	261	241	4000	482	14400	2350	17800	6770	---	---	2450	416
13	388	251	3350	463	13600	2920	9190	2760	---	---	3260	403
14	1770	257	3070	461	13800	2720	5250	870	---	---	6500	464
15	1460	265	3450	470	13100	3540	2590	563	---	---	6220	460
16	1320	267	9390	459	13500	3470	1630	529	---	---	10200	502
17	592	281	14000	655	10300	4060	1360	524	---	---	14500	618
18	452	276	11900	1430	10400	4190	1090	545	---	---	9910	659
19	574	278	9010	1780	14400	5490	1290	586	---	---	11800	661
20	368	285	7610	1670	14700	4470	5200	498	---	---	3010	465
21	382	280	9160	2410	16400	4390	3860	510	779	395	651	340
22	339	278	12100	3250	15000	4210	2400	506	5740	373	526	273
23	426	281	14400	3920	15600	4290	5250	504	4410	388	479	251
24	468	286	14100	3340	19300	4430	3390	551	887	394	489	253
25	407	289	16800	4060	16600	5740	5160	574	4720	377	589	254
26	1300	298	18100	4060	18000	4890	5460	621	4770	490	420	245
27	2600	329	16700	4430	16300	4330	9240	559	4610	490	361	244
28	1810	339	15400	4630	17500	5550	8050	700	902	534	355	218
29	1770	346	15600	3670	14600	6120	6750	649	3230	457	365	204
30	7010	336	12000	4420	13900	6290	7430	943	7940	581	338	199
31	---	---	11400	3740	---	---	10500	1900	11000	859	---	---
MONTH	7010	177	18100	339	19300	2070	23400	498	---	---	21800	199

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	28.5	26.7	25.2	23.6	21.3	19.9	15.7	11.7	17.4	15.1	22.8	21.0
2	29.0	27.0	25.2	23.9	21.3	18.7	18.4	13.4	19.0	16.0	21.9	19.9
3	28.9	26.1	24.0	22.3	22.1	19.6	18.1	14.4	18.7	17.4	19.9	18.1
4	28.4	26.1	24.0	21.7	21.3	20.6	21.0	15.7	18.4	17.1	21.0	16.0
5	29.5	26.1	23.2	21.3	22.3	18.6	21.3	17.1	18.4	15.7	21.3	18.0
6	29.5	26.1	24.1	21.2	19.6	16.8	21.7	18.7	17.1	15.4	21.4	18.4
7	29.7	26.1	23.9	21.4	18.6	16.2	21.8	20.0	16.0	13.4	21.7	19.6
8	29.5	26.1	22.3	21.3	18.7	15.7	22.4	21.0	15.2	13.9	22.7	20.3
9	28.5	26.5	21.7	19.9	20.0	16.3	22.1	21.0	16.0	13.9	22.4	21.3
10	27.5	26.1	22.1	19.7	21.3	18.0	21.3	19.0	17.2	13.9	21.3	19.0
11	27.5	25.2	22.1	20.3	22.8	19.5	20.6	18.0	17.5	15.2	19.6	16.0
12	27.5	24.8	22.4	20.6	22.4	21.0	20.0	17.7	19.0	16.0	18.3	14.9
13	27.5	24.8	22.8	21.4	21.3	20.6	20.3	18.6	18.3	17.1	18.4	14.1
14	27.5	25.2	24.0	22.6	20.6	18.6	20.6	18.6	18.7	16.3	19.6	14.9
15	27.5	24.8	24.0	22.0	19.0	16.8	20.0	19.0	18.0	15.7	19.2	15.7
16	27.5	24.0	23.2	21.0	17.5	14.4	20.0	19.0	20.0	17.4	20.0	16.8
17	28.4	25.1	21.0	18.0	17.4	15.4	19.6	17.8	21.1	19.0	21.0	17.4
18	27.5	25.6	20.0	18.3	16.6	15.2	19.6	17.4	22.4	19.6	21.3	18.9
19	26.1	24.0	21.4	18.3	17.8	14.6	19.0	17.4	21.3	19.9	21.3	19.6
20	26.1	22.8	22.1	18.6	18.3	14.9	19.0	17.1	22.9	20.6	21.4	19.6
21	26.5	23.2	22.4	19.0	18.3	15.5	19.3	17.4	22.7	19.5	21.3	19.3
22	25.7	23.6	23.6	20.0	19.1	16.3	20.0	18.0	21.7	19.9	19.8	18.3
23	26.1	23.6	22.7	20.6	20.0	17.4	20.3	19.1	22.1	20.6	19.6	17.4
24	26.1	24.0	21.3	19.9	20.6	18.3	20.3	19.0	21.3	18.6	19.8	17.4
25	27.0	24.0	20.7	17.1	22.4	19.6	19.0	16.5	21.3	18.3	20.7	18.0
26	27.5	25.2	21.4	18.6	22.8	21.0	17.7	15.7	21.3	18.6	20.9	18.6
27	26.6	25.2	21.3	17.7	22.1	20.6	18.4	17.4	22.1	19.6	22.0	18.6
28	25.8	23.3	21.4	18.6	20.6	18.0	18.0	16.6	22.8	20.3	23.6	19.3
29	24.4	21.7	21.4	19.9	19.2	17.1	18.0	15.8	---	---	24.4	20.6
30	24.0	21.7	21.7	20.6	17.1	15.7	17.7	15.7	---	---	24.4	21.0
31	24.0	22.9	---	---	17.2	14.9	18.4	16.0	---	---	25.2	21.7
MONTH	29.7	21.7	25.2	17.1	22.8	14.4	22.4	11.7	22.9	13.4	25.2	14.1

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	25.6	22.8	26.1	24.8	31.6	28.3	34.1	30.5	31.7	30.5	31.7	30.2
2	26.3	24.0	27.5	24.0	32.2	28.9	34.1	31.6	32.2	29.9	31.1	30.0
3	27.0	24.0	27.5	22.4	32.8	29.4	34.7	31.0	32.2	30.0	30.1	29.0
4	26.5	24.8	27.0	25.2	32.8	30.0	34.0	31.0	---	---	30.1	28.5
5	27.5	23.6	27.5	24.0	34.0	31.0	33.4	31.0	---	---	30.1	28.5
6	27.5	22.0	28.9	25.6	33.4	31.4	32.8	31.0	---	---	30.1	28.1
7	26.1	23.2	29.5	26.5	32.8	31.0	32.2	30.5	---	---	30.6	28.5
8	26.2	24.0	28.9	27.0	32.8	29.1	31.6	30.5	---	---	30.1	28.5
9	26.5	24.4	29.5	27.0	32.2	29.4	32.2	30.5	---	---	30.6	28.5
10	25.7	24.0	28.9	27.5	32.2	29.4	31.6	30.5	---	---	30.6	27.7
11	24.0	21.3	29.5	27.4	32.2	30.1	31.0	30.0	---	---	30.1	27.6
12	24.4	20.3	29.5	27.0	32.3	30.5	31.6	28.4	---	---	29.6	27.6
13	24.0	21.0	30.0	27.4	32.2	31.0	31.1	28.4	---	---	29.0	27.6
14	24.0	21.7	30.0	27.4	32.2	30.5	29.4	27.9	---	---	29.0	27.1
15	24.8	22.4	29.5	27.4	32.5	30.0	27.9	27.4	---	---	28.0	27.1
16	25.6	22.8	29.5	27.0	32.8	30.5	31.1	27.0	---	---	27.6	26.6
17	26.1	23.8	29.5	26.5	34.1	31.0	32.2	28.4	---	---	27.1	26.6
18	26.5	24.4	30.0	27.0	34.7	31.6	33.2	29.4	---	---	28.0	26.2
19	27.0	24.8	29.5	27.5	34.0	31.6	32.8	30.0	---	---	27.1	26.6
20	27.5	25.6	30.5	27.5	32.2	31.6	31.1	27.5	31.1	27.1	26.6	26.2
21	27.0	25.2	31.6	27.4	32.2	30.0	30.0	27.5	29.5	26.6	27.9	25.7
22	26.6	23.6	31.1	27.9	33.4	29.4	30.0	27.5	29.0	26.6	28.0	26.6
23	25.7	22.4	31.1	27.9	32.8	30.5	31.6	27.5	30.1	27.1	29.1	26.6
24	24.8	21.8	31.1	28.4	32.8	29.9	32.8	28.9	30.6	28.0	29.1	27.1
25	25.4	21.7	31.1	28.7	31.6	29.9	32.9	30.0	30.6	28.0	28.5	24.9
26	25.4	22.8	30.3	29.4	32.1	30.0	32.8	31.0	30.6	29.0	26.6	25.3
27	27.0	23.6	30.0	28.9	32.2	29.4	33.2	31.0	31.7	30.0	27.6	26.2
28	27.0	24.4	29.4	27.5	32.2	29.4	34.0	31.6	31.7	30.6	28.5	26.2
29	26.1	24.4	30.5	27.5	32.8	30.5	35.4	32.1	32.9	30.6	29.0	26.6
30	25.7	23.6	30.0	27.9	34.0	30.0	34.7	32.2	32.9	30.3	28.5	26.6
31	---	---	30.5	27.9	---	---	34.6	31.6	31.8	30.0	---	---
MONTH	27.5	20.3	31.6	22.4	34.7	28.3	35.4	27.0	---	---	31.7	24.9

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	28.0	26.5	24.8	23.2	20.9	19.5	15.0	10.2	17.0	14.8	22.4	20.6
2	28.1	26.6	24.8	23.6	20.9	18.3	16.5	13.0	18.6	15.6	21.6	19.5
3	28.4	25.7	24.0	22.0	21.8	19.2	17.6	14.0	18.3	17.0	19.5	18.2
4	28.1	25.7	23.6	21.6	21.0	20.2	20.6	15.3	18.0	16.7	19.7	15.9
5	29.1	25.9	23.2	20.9	21.9	18.2	20.9	16.7	17.7	15.3	19.9	17.6
6	29.1	25.7	23.8	20.9	19.2	16.4	21.3	18.3	16.7	15.0	19.9	18.0
7	29.6	25.7	23.5	21.3	18.2	15.8	21.5	19.6	15.6	13.2	21.3	19.2
8	29.1	25.7	22.0	20.9	18.3	15.3	22.0	20.6	14.8	13.5	22.3	19.9
9	28.2	26.1	21.3	19.5	19.3	15.9	21.7	20.6	15.6	13.5	22.0	20.9
10	27.1	25.7	21.7	19.5	20.9	17.5	20.9	18.6	16.8	13.5	20.9	18.9
11	27.1	24.8	21.7	19.9	22.0	19.1	20.2	17.6	17.1	14.8	19.2	15.8
12	27.1	24.4	22.0	19.9	22.0	20.6	19.6	17.3	18.6	15.6	17.9	14.5
13	27.1	24.5	22.4	21.3	20.9	20.2	19.9	18.2	17.9	16.7	18.0	13.7
14	27.1	24.8	23.6	22.4	20.2	18.2	20.2	18.2	18.3	15.9	19.2	14.8
15	26.6	24.4	23.6	21.7	18.6	16.4	19.6	18.6	17.6	15.3	19.2	15.3
16	27.1	24.4	22.8	20.6	17.1	14.0	19.6	18.6	19.6	17.0	19.6	16.4
17	28.0	25.2	20.6	17.6	17.2	15.0	19.2	17.5	20.6	18.6	20.5	17.0
18	27.1	25.7	19.6	17.9	16.2	14.8	19.6	17.0	21.3	19.2	20.9	18.6
19	25.7	23.6	21.1	18.6	17.4	14.1	18.6	17.0	20.9	19.5	20.9	19.2
20	25.7	22.4	21.6	18.2	17.9	14.5	18.6	16.7	22.4	20.2	20.9	19.2
21	26.0	22.8	22.0	18.6	17.7	15.1	18.9	17.0	22.0	19.5	20.7	18.9
22	25.7	23.5	22.4	19.6	18.3	15.9	19.6	17.6	21.3	19.5	19.3	17.9
23	25.7	23.2	22.4	20.2	19.2	17.0	19.9	18.7	21.7	20.2	19.2	17.0
24	25.7	23.6	20.9	19.5	19.9	17.9	19.9	18.6	21.0	18.6	19.4	17.0
25	26.6	24.0	20.3	16.7	21.6	19.2	18.6	16.1	20.9	17.9	20.0	17.6
26	26.6	24.8	21.0	18.2	22.1	20.6	17.3	15.3	20.9	18.2	20.2	18.2
27	26.2	25.2	20.9	18.6	21.7	20.2	18.0	17.0	21.7	19.2	21.4	18.2
28	25.7	22.9	21.0	18.9	20.2	17.0	17.6	16.3	22.4	19.9	22.4	18.9
29	23.8	21.3	20.9	19.5	18.9	16.7	17.1	15.4	---	---	24.0	20.2
30	23.6	21.3	21.2	20.2	16.7	15.3	17.5	15.3	---	---	24.0	20.6
31	23.6	22.8	---	---	16.8	14.5	17.6	15.6	---	---	24.9	21.3
MONTH	29.6	21.3	24.8	16.7	22.1	14.0	22.0	10.2	22.4	13.2	24.9	13.7

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	26.0	22.4	25.7	24.4	31.2	28.0	33.7	30.6	31.8	30.3	32.3	30.7
2	25.7	23.6	27.1	23.6	31.8	28.7	33.7	31.2	31.8	29.5	31.2	30.6
3	25.7	23.6	26.9	23.6	32.4	29.0	34.3	30.6	31.8	30.1	30.7	29.6
4	25.7	24.4	26.6	24.4	32.7	29.9	33.6	30.6	---	---	30.7	29.1
5	27.1	23.2	27.1	23.6	33.6	30.6	33.0	30.7	---	---	30.7	29.1
6	26.6	21.7	28.5	25.2	33.0	31.2	32.4	30.7	---	---	30.7	28.6
7	25.7	22.8	29.1	26.1	32.4	30.6	31.8	30.6	---	---	30.7	28.6
8	26.0	23.6	28.5	27.0	32.4	29.0	31.7	30.6	---	---	30.7	29.1
9	26.1	24.0	29.1	26.6	31.8	29.0	31.8	30.1	---	---	30.8	29.1
10	25.3	23.6	28.5	27.1	31.8	29.4	31.2	30.1	---	---	30.7	28.7
11	23.6	20.6	29.1	27.0	31.8	29.9	30.6	29.6	---	---	30.6	28.2
12	24.0	20.2	29.1	26.6	32.4	30.4	31.2	28.0	---	---	30.1	28.1
13	23.6	20.7	29.6	27.0	31.8	30.7	30.1	28.0	---	---	29.6	28.2
14	23.6	21.3	29.6	27.0	31.8	30.1	29.0	27.6	---	---	29.6	27.7
15	24.4	22.0	29.1	27.1	31.8	29.6	27.6	27.1	---	---	28.4	27.7
16	25.3	22.4	29.1	26.6	32.4	30.1	30.7	26.8	---	---	28.2	27.2
17	25.7	23.6	29.1	26.1	33.6	30.6	31.8	28.0	---	---	27.7	27.2
18	26.2	24.0	29.1	26.6	34.3	31.2	32.9	29.0	---	---	27.8	26.8
19	26.6	24.4	29.1	27.1	33.6	31.2	32.4	29.6	---	---	27.7	26.9
20	27.1	25.2	30.1	27.1	32.1	31.2	30.7	27.2	---	---	27.2	26.8
21	26.6	24.8	31.1	27.0	31.8	30.1	29.1	27.1	30.1	27.2	28.2	26.3
22	26.2	23.2	30.7	27.5	32.6	29.5	29.6	27.1	29.6	27.6	28.6	27.2
23	25.3	22.0	30.7	27.7	32.4	30.1	31.2	27.5	30.7	27.7	29.6	27.2
24	24.4	21.6	30.7	28.4	32.4	29.5	32.4	28.5	31.2	28.6	29.6	27.7
25	25.3	21.3	30.7	28.5	31.2	29.3	33.0	29.6	31.2	28.6	29.1	25.1
26	25.3	22.4	30.1	29.0	31.0	29.6	32.4	30.6	31.7	29.6	26.8	25.9
27	26.6	23.2	29.6	29.0	31.8	29.0	33.0	30.6	32.3	30.6	27.9	26.3
28	26.6	24.0	29.0	27.1	31.8	29.0	33.6	31.2	32.0	31.2	28.6	26.8
29	25.7	24.0	29.7	27.1	32.4	30.1	35.7	31.8	33.5	31.2	29.1	27.2
30	25.3	24.0	29.6	27.5	33.6	30.1	34.3	31.8	33.5	30.9	29.1	27.2
31	---	---	29.1	27.6	---	---	34.3	31.2	32.3	30.6	---	---
MONTH	27.1	20.2	31.1	23.6	34.3	28.0	35.7	26.8	---	---	32.3	25.1

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 1997 TO SEPTEMBER 1998

LABORATORY ANALYSES

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- PENDE (MG/L) (00530)	RESIDUE VOLA- TILE, SUS- PENDE (MG/L) (00535)
OCT 1997									
28...	1310	.30	3.45	160	3.7	1600	8.0	7	<1
28...	1350	3.2	3.45	140	4.4	2100	7.4	7	1
NOV									
19...	1320	.30	2.85	200	7.4	9.8	2.7	14	5
19...	1345	2.5	2.85	160	7.1	10	2.7	14	5
DEC									
16...	1350	.30	3.25	240	6.0	17	4.4	7	4
16...	1415	3.0	3.25	240	5.6	16	4.5	8	3
JAN 1998									
21...	1430	.30	2.85	240	2.8	24	4.3	1	1
21...	1455	2.5	2.85	240	2.9	22	4.2	2	2
FEB									
24...	1455	.30	3.15	200	2.6	12	2.5	6	4
24...	1505	2.8	3.15	200	2.4	12	2.6	5	2
MAR									
24...	1420	.30	3.15	160	8.9	7.7	1.7	14	5
24...	1440	2.8	3.15	200	8.9	7.7	1.7	10	4
APR									
21...	1300	.30	3.65	120	4.6	45	2.3	20	16
21...	1320	3.3	3.65	140	5.8	44	2.3	6	6
MAY									
19...	1310	.30	3.75	70	1.9	1700	2.1	12	5
19...	1335	3.5	3.75	70	2.0	3000	2.1	11	6
JUN									
24...	1240	.30	4.05	40	1.1	4000	.70	13	4
24...	1305	3.8	4.05	40	4.5	5400	.30	28	9
JUL									
21...	1245	.30	3.55	100	2.3	540	6.9	9	7
21...	1300	3.3	3.55	100	4.6	790	6.2	12	7
AUG									
19...	1300	.30	3.25	180	4.0	1100	5.0	15	5
19...	1305	3.0	3.25	180	7.7	2100	4.8	31	10
SEP									
29...	1300	.30	3.45	320	3.1	16	7.0	5	2
29...	1315	3.2	3.45	320	3.1	16	7.1	7	4

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)
OCT 1997									
28...	<.010	.270	.050	.91	.590	.490	16	16	17
28...	<.010	.250	.060	.98	.580	.440	15	15	17
NOV									
19...	<.010	.240	.030	1.0	.640	.480	14	13	4.0
19...	<.010	.240	.030	.96	.620	.490	14	14	3.7
DEC									
16...	<.010	.450	.060	1.0	.650	.510	21	21	5.5
16...	<.010	.450	.060	1.1	.640	.500	20	20	5.4
JAN 1998									
21...	.012	.380	.040	1.2	.560	.570	17	17	8.6
21...	.014	.380	.040	1.2	.560	.620	18	17	8.4
FEB									
24...	<.010	.200	.020	.87	.570	.520	13	13	4.2
24...	<.010	.200	.020	.66	.560	.520	13	13	4.3
MAR									
24...	.010	.300	.050	.89	.620	.400	12	12	1.9
24...	<.010	.310	.040	.95	.570	.400	12	12	2.1
APR									
21...	<.010	<.020	.020	1.3	.830	.680	16	15	12
21...	<.010	<.020	.030	1.3	.850	.680	15	15	12
MAY									
19...	.012	<.020	.030	.69	.650	.560	14	13	16
19...	.012	<.020	.040	.74	.600	.540	14	13	17
JUN									
24...	<.010	<.020	.010	.79	.560	.530	12	11	16
24...	<.010	<.020	.010	.85	.610	.490	12	10	17
JUL									
21...	.032	.720	.060	1.1	.470	.370	15	15	16
21...	.028	.770	.090	1.0	.560	.430	15	15	14
AUG									
19...	.014	.170	<.010	1.1	.630	.560	16	16	14
19...	.012	.180	.070	1.1	.720	.530	15	14	15
SEP									
29...	.018	.300	.050	1.5	.730	.680	16	14	8.4
29...	.018	.300	.050	1.4	.740	.690	16	16	8.7

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P, P' DDE DISSOLV (UG/L) (34653)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)		
		PESTICIDE DATA												
		MAR 1998 24...	1421	<.007	<.002	<.035	.384	<.018	E.0045	<.004	<.003	<.002	E.0016	<.035
DATE		LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)		
		MAR 1998 24...	<.018	<.17	<.14	<.026	<.035	<.014	<.24	<.035	<.018	<.004	<.004	
		DATE		DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER, DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4,5-T DIS- SOLVED (UG/L) (39742)	SILVEX, DIS- SOLVED (UG/L) (39762)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)
MAR 1998 24...	<.001			.0430	<.005	<.004	.0166	.0626	<.15	<.035	<.021	<.002	<.25	
DATE				PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	ACETO- CHLOR, WATER, FLTRD, GF 0.7U REC (UG/L) (49260)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	DNOC WAT, FLT REC (UG/L) (49299)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)
		MAR 1998 24...	<.035	<.002	<.05	<.31	.11	<.015	<.017	<.013	<.42	.29	<.035	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DICHLOR- BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DACTHAL MONO- ACID, WAT,FLT REC (UG/L) (49304)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CHLORO- THALO- NIL, WAT,FLT REC (UG/L) (49306)	CHLOR- AMBEN, WATER, FLTRD, GF 0.7U REC (UG/L) (49307)	3HYDRXY CARBO- FURAN WAT,FLT REC (UG/L) (49308)	CARBO- FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CAR- BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)
MAR 1998 24...	<.032	<1.2	<.017	<.23	<.48	<.42	<.014	<.12	<.008	<.035	<.55
DATE	ALDI- CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	SAM- PLING METHOD, CODES (82398)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
MAR 1998 24...	<.1	<.021	<.035	40.0	<.004	<.003	<.002	<.004	<.002	<.007	<.002
DATE	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
MAR 1998 24...	<.006	<.002	<.004	<.010	<.004	<.003	<.002	<.003	<.013	<.003	<.017
DATE	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)
MAR 1998 24...	<.001	<.004	E.0249	<.002	<.002	<.004	<.003	<.013	<.001	<.005	3.15

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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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 mi².

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	857	36	130	608	322	640	409	31	50	14	71	140
2	822	55	118	547	283	586	298	32	39	9.9	56	116
3	776	98	110	470	552	514	235	31	44	8.1	56	112
4	734	99	120	396	748	453	203	29	65	5.7	59	159
5	715	84	208	335	814	393	178	31	52	7.2	51	198
6	694	69	230	304	853	335	154	29	38	20	53	211
7	649	55	220	271	1050	266	142	27	28	19	52	445
8	598	49	203	327	1070	221	121	26	26	29	75	438
9	527	46	173	671	1030	258	108	25	24	38	54	308
10	430	54	155	733	975	313	99	24	21	55	56	233
11	309	41	153	746	906	275	87	23	17	74	59	285
12	229	44	161	780	853	226	80	22	10	127	49	274
13	196	40	216	785	793	195	71	20	6.4	182	47	258
14	170	68	491	801	732	184	65	17	5.9	244	39	244
15	153	98	750	776	677	163	60	13	11	344	35	233
16	138	115	906	847	748	142	60	12	5.1	360	34	220
17	128	132	912	871	864	130	56	10	4.4	338	41	208
18	122	113	859	859	1040	124	53	10	2.8	330	58	212
19	120	93	798	871	1110	413	48	9.6	3.6	322	72	221
20	120	81	757	806	1170	1550	46	9.3	4.2	327	111	350
21	104	77	725	735	1180	1870	47	9.8	12	276	134	665
22	96	79	676	674	1100	1810	56	7.6	18	313	151	820
23	91	129	608	618	1050	1670	56	7.1	8.2	299	185	925
24	87	182	570	614	1000	1480	58	8.3	6.1	224	215	1010
25	83	184	526	603	940	1380	54	10	11	188	211	e1200
26	81	201	483	586	883	1260	46	8.3	11	165	211	e1400
27	75	190	502	562	800	1160	41	7.2	9.2	149	217	e1600
28	59	180	612	528	717	1060	37	12	13	110	211	e1800
29	53	137	644	477	---	940	32	12	18	91	269	e1900
30	47	133	663	433	---	792	31	13	15	81	226	e1800
31	42	---	658	384	---	604	---	30	---	70	172	---
TOTAL	9305	2962	14337	19018	24260	21407	3031	556.2	578.9	4819.9	3330	17985
MEAN	300	98.7	462	613	866	691	101	17.9	19.3	155	107	600
MAX	857	201	912	871	1180	1870	409	32	65	360	269	1900
MIN	42	36	110	271	283	124	31	7.1	2.8	5.7	34	112
CFSM	1.29	.42	1.98	2.63	3.72	2.96	.43	.08	.08	.67	.46	2.57
IN.	1.49	.47	2.29	3.04	3.87	3.42	.48	.09	.09	.77	.53	2.87

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN FLOW FOR EACH YEAR 1964 = 1997, BY YEAR (WY)												
MEAN	281	74.8	60.5	92.6	140	183	70.4	39.9	247	318	397	480
MAX	1117	301	462	613	984	895	285	284	1608	1196	1193	1546
(WY)	1980	1988	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1964 - 1998
ANNUAL TOTAL	61037.4	121590.0	
ANNUAL MEAN	167	333	199
HIGHEST ANNUAL MEAN			457
LOWEST ANNUAL MEAN			84.3
HIGHEST DAILY MEAN	922	e1900	4870
LOWEST DAILY MEAN	7.6	2.8	.00
ANNUAL SEVEN-DAY MINIMUM	8.5	5.3	.04
INSTANTANEOUS PEAK FLOW		1960	5400
INSTANTANEOUS PEAK STAGE		11.52	14.19
ANNUAL RUNOFF (CFSM)	.72	1.43	.85
ANNUAL RUNOFF (INCHES)	9.75	19.41	11.59
10 PERCENT EXCEEDS	435	867	589
50 PERCENT EXCEEDS	104	165	62
90 PERCENT EXCEEDS	18	14	6.9

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 1997 TO SEPTEMBER 1998

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							
20...	1150	4.62	82	646	6.30	19.5	7.6
APR							
16...	1210	4.08	60	496	6.60	22.0	7.0
JUN							
02...	1153	3.59	38	747	7.20	27.0	5.8
25...	1020	2.83	9.5	923	8.00	27.0	5.0
SEP							
02...	1155	5.24	116	547	6.30	27.0	4.6
17...	1215	6.72	208	535	6.30	25.0	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						
20...	<.01	.12	.03	.91	.05	.02
APR						
16...	<.01	.15	.07	1.0	.05	.05
JUN						
02...	<.01	.05	.07	1.1	.31	.31
25...	.02	.38	.05	.82	.10	.07
SEP						
02...	.02	.15	.12	1.9	.14	.12
17...	.01	.15	.07	1.1	.10	.09

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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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 mi².

WATER DISCHARGE RECORDS

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

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.

REVISED RECORDS--WRD-FL 95-3A: Water year 1995 adjusted CFSM 28.68 and IN 2.11 are in error. Correct numbers are CFSM 2.11 and IN 28.68.

WDR-FL 96-3A: Water year 1996 October adjusted mean 17.11 and water year maximum 1707 are in error. Corrected numbers are October adjusted mean 17.11 and water year maximum 3720.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1760	77	139	737	435	834	622	70	77	41	188	308
2	1490	93	135	653	398	741	459	70	66	43	179	260
3	1320	117	124	574	621	652	377	64	54	32	158	239
4	1150	135	166	496	864	556	323	63	55	29	154	277
5	1010	137	214	438	959	485	296	61	67	25	143	356
6	922	120	259	398	1010	434	266	61	56	24	206	389
7	865	103	253	384	1350	385	238	59	46	37	198	762
8	784	89	234	486	1460	338	222	53	40	41	306	859
9	682	76	218	934	1380	359	191	55	31	62	533	708
10	582	71	189	1030	1270	424	174	53	29	74	395	571
11	477	77	167	996	1170	413	158	50	49	99	281	550
12	374	67	175	934	1060	364	149	49	48	173	226	522
13	309	75	298	911	983	318	137	46	26	249	210	460
14	277	101	757	892	899	286	121	45	16	324	174	414
15	252	124	1090	912	835	260	114	41	13	472	144	386
16	223	135	1070	1310	1180	228	110	32	11	511	133	371
17	202	143	1060	1310	1380	207	106	30	6.1	464	148	361
18	202	137	1030	1130	1430	201	100	29	7.0	423	238	371
19	180	117	959	1040	1420	1010	89	29	7.7	410	382	405
20	168	101	884	994	1680	3060	85	27	7.0	451	455	1090
21	163	96	814	922	1820	2970	93	26	6.7	504	622	2050
22	151	105	764	845	1620	2580	97	24	13	535	541	1750
23	145	125	713	800	1440	2300	96	21	25	642	522	1530
24	140	176	715	783	1330	2040	93	18	37	555	536	1480
25	131	203	653	738	1200	1770	93	24	55	414	493	1430
26	125	208	618	684	1100	1550	89	29	38	332	432	1660
27	138	200	667	653	1010	1390	77	27	32	287	387	1980
28	137	182	911	621	926	1250	75	39	27	254	376	2070
29	114	161	859	580	---	1120	68	43	27	215	449	1880
30	95	146	830	522	---	994	66	37	30	191	473	1640
31	91	---	794	495	---	838	---	80	---	183	391	---
TOTAL	14659	3697	17759	24202	32230	30357	5184	1355	1002.5	8096	10073	27129
MEAN	473	123	573	781	1151	979	173	43.7	33.4	261	325	904
MAX	1760	208	1090	1310	1820	3060	622	80	77	642	622	2070
MIN	91	67	124	384	398	201	66	18	6.1	24	133	239
(†)	5.2	4.7	3.9	4.1	4.0	4.7	6.3	6.4	5.3	4.5	4.1	3.9

e Estimated

ADJUSTED FOR DIVERSION BY CITY OF PUNTA GORDA

MEAN	478	1.28	577	785	1155	984	179	50	39.8	266	329	908
CFSM	1.28	.34	1.55	2.10	3.10	2.64	.48	.13	.11	.71	.88	2.43
IN	1.48	.38	1.78	2.43	3.22	3.04	.54	.15	.12	.82	1.02	2.72

OBSERVED

ADJUSTED

CAL YR 1997	TOTAL	123579	MEAN	339	MAX	e5000	MIN	.81	MEAN	340	CFSM	0.91	IN	12.50
WTR YR 1998	TOTAL	175744	MEAN	481	MAX	3060	MIN	6.1	MEAN	490	CFSM	1.31	IN	17.70

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

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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 1997 TO SEPTEMBER 1998

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							
20...	1240	5.16	101	714	7.30	21.0	6.6
APR							
16...	1300	5.13	110	539	7.50	23.0	7.5
JUN							
02...	1256	5.11	66	912	7.20	28.0	3.3
25...	0930	5.09	51	920	7.80	30.0	2.8
SEP							
02...	1245	5.28	247	595	7.20	28.0	2.9
17...	1315	5.38	372	564	7.20	24.5	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						
20...	<.01	.25	.04	.94	.10	.05
APR						
16...	<.01	<.02	.02	1.1	.11	.06
JUN						
02...	<.01	<.02	.02	.62	.14	.12
25...	<.01	<.02	.05	.82	.18	.16
SEP						
02...	.02	.24	.07	1.5	.17	.15
17...	.02	.17	.09	1.2	.13	.12

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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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 mi².

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, 6.88 ft, Jan. 1, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.11 ft, Feb. 3; minimum, 6.88 ft, Jan. 1.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	10.35	8.89	11.25	9.16	11.11	8.30	8.63	6.88	10.29	8.24	10.89	8.87
2	10.61	8.89	11.56	9.02	10.16	7.76	9.23	7.43	11.25	8.62	10.00	8.51
3	10.31	8.44	10.27	7.98	10.33	7.80	9.64	7.68	12.11	9.64	10.59	8.16
4	10.47	8.41	10.18	7.73	10.63	8.11	9.82	7.93	11.57	10.66	10.18	8.25
5	10.45	8.12	10.04	7.64	10.16	7.68	10.05	8.31	10.80	8.80	10.64	8.15
6	10.08	7.96	9.96	8.05	9.24	7.64	10.23	8.12	10.06	8.15	10.58	8.27
7	9.97	7.87	10.49	8.70	9.61	7.83	10.65	8.12	10.17	8.43	10.82	8.34
8	10.07	7.99	9.96	8.29	10.20	8.29	10.64	8.99	10.26	8.24	11.23	8.85
9	10.23	8.02	10.24	8.38	10.39	8.46	10.54	8.20	10.25	8.12	11.54	9.22
10	10.06	7.67	10.41	8.70	10.44	8.53	9.91	7.65	10.17	8.11	10.18	8.05
11	10.02	7.89	10.48	8.52	10.52	8.28	9.75	7.47	10.72	8.48	9.33	7.47
12	10.34	8.31	10.65	8.30	10.73	8.24	9.93	7.50	10.98	8.59	9.19	7.30
13	10.21	8.48	11.20	9.12	10.76	8.01	10.48	7.92	10.36	8.33	9.62	7.71
14	10.41	8.42	11.99	9.25	10.78	8.25	10.33	7.87	9.87	7.96	9.63	7.63
15	10.49	8.32	10.59	7.99	10.31	8.14	10.45	8.34	10.12	7.95	9.62	7.78
16	10.66	8.34	10.09	7.70	9.71	8.10	10.94	8.93	10.90	8.83	10.07	7.95
17	10.87	8.38	9.56	7.51	9.78	8.17	9.79	8.19	11.43	9.32	10.65	8.32
18	11.03	8.53	9.83	8.09	9.99	8.18	9.78	8.20	10.34	8.75	10.80	8.45
19	10.89	8.56	10.27	8.15	9.62	8.01	10.48	8.78	10.39	8.47	10.73	8.67
20	10.27	7.99	9.86	8.23	9.77	8.25	10.07	8.57	10.03	9.29	11.58	9.11
21	10.33	8.24	10.22	8.37	10.27	8.78	10.08	8.44	9.81	8.47	10.71	9.84
22	10.56	8.69	10.22	8.65	10.35	9.01	10.71	8.47	11.22	8.52	10.32	9.10
23	10.41	8.51	10.22	8.50	10.12	8.71	10.72	8.52	11.65	9.62	10.18	9.08
24	10.87	9.38	9.76	7.90	10.65	8.74	10.70	8.43	10.55	8.53	10.20	8.95
25	10.95	9.32	9.69	7.42	10.65	8.77	9.93	7.63	9.96	8.22	10.24	8.89
26	11.15	9.58	10.16	8.03	10.65	8.30	10.74	7.76	10.64	8.41	10.31	8.69
27	11.35	9.48	10.21	7.95	10.97	9.25	11.14	8.95	11.20	9.12	10.23	8.69
28	10.43	8.14	10.27	7.95	10.38	7.68	10.81	8.29	11.11	8.97	10.67	8.78
29	10.07	8.29	10.63	8.13	10.69	8.92	10.40	8.18	---	---	10.53	8.44
30	10.20	8.08	10.99	8.30	11.14	8.40	10.61	8.34	---	---	10.55	8.34
31	10.94	8.57	---	---	10.15	8.00	10.54	8.37	---	---	11.07	8.40
MONTH	11.35	7.67	11.99	7.42	11.14	7.64	11.14	6.88	12.11	7.95	11.58	7.30

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	10.97	8.54	10.67	8.62	10.20	8.31	10.07	8.68	10.42	8.32	---	---
2	10.67	8.43	10.05	8.20	10.31	8.76	10.09	8.45	10.39	8.47	---	---
3	10.49	8.25	9.82	7.92	10.18	8.65	9.94	8.34	10.48	8.31	---	---
4	10.61	8.76	10.31	8.25	10.30	8.78	9.85	8.24	10.52	7.94	---	---
5	9.89	8.25	10.39	8.37	10.44	8.53	10.11	8.15	10.68	8.04	---	---
6	9.72	7.78	10.30	8.44	10.67	8.53	10.53	8.18	10.81	8.09	---	---
7	10.49	8.29	10.57	8.73	10.49	8.22	10.79	8.26	10.88	8.15	---	---
8	10.76	8.58	11.11	9.32	10.12	7.97	10.57	7.94	10.89	8.16	---	---
9	11.07	8.92	10.71	8.54	10.48	8.26	10.77	8.07	10.70	8.15	---	---
10	10.07	8.29	11.28	9.14	10.68	7.92	10.69	8.07	10.62	8.13	---	---
11	9.54	7.34	10.66	8.27	10.85	7.92	11.29	8.13	10.55	8.35	---	---
12	9.64	7.41	10.61	8.10	10.76	7.96	11.17	8.43	---	---	---	---
13	10.19	7.87	10.48	8.05	10.53	8.07	10.67	8.36	---	---	---	---
14	10.87	8.06	10.42	7.96	10.66	8.22	10.64	8.41	---	---	---	---
15	10.91	8.30	10.31	7.96	10.52	8.36	10.39	8.65	---	---	---	---
16	11.00	8.39	10.48	7.86	10.60	8.45	10.22	8.57	---	---	---	---
17	10.79	8.52	10.73	7.94	10.20	8.54	10.34	8.61	---	---	---	---
18	10.67	8.22	10.48	8.12	10.16	8.44	10.45	8.40	---	---	---	---
19	10.66	8.16	10.22	8.29	10.45	8.44	10.48	8.08	---	---	---	---
20	10.31	8.46	10.02	8.12	10.51	8.20	10.76	8.20	---	---	---	---
21	10.16	8.05	10.18	8.15	10.69	7.99	10.74	8.16	---	---	---	---
22	10.07	8.15	10.38	8.41	10.48	7.93	10.69	8.17	---	---	---	---
23	10.01	8.27	10.65	8.34	10.58	7.94	10.88	8.23	---	---	---	---
24	10.03	8.09	10.73	8.15	10.87	8.01	10.64	8.23	---	---	---	---
25	10.21	7.86	10.96	8.22	10.59	8.01	10.64	8.25	---	---	---	---
26	10.66	8.12	11.08	8.28	10.65	7.92	10.39	8.24	---	---	---	---
27	10.77	8.14	10.98	8.32	10.45	7.99	10.55	8.29	---	---	---	---
28	10.68	8.04	10.78	8.19	10.49	8.05	10.39	8.38	---	---	10.57	9.32
29	10.51	7.76	10.72	8.01	10.04	8.11	10.13	8.50	---	---	10.71	9.49
30	11.11	7.96	10.45	8.09	10.07	8.57	10.27	8.72	---	---	11.31	9.86
31	---	---	10.33	8.10	---	---	10.39	8.68	---	---	---	---
MONTH	11.11	7.34	11.28	7.86	10.87	7.92	11.29	7.94	---	---	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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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, 27,000 microsiemens, Apr. 23, 1997; bottom probe maximum, 26,700 microsiemens, Apr. 23, 1997; top probe minimum, 155 microsiemens, Sept. 28, 1997; bottom probe minimum, 179 microsiemens, Sept. 28, 1997.

TEMPERATURE.--Top probe maximum, 33.9°C, July 4, 29, 30, 1998; 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, 16,700 microsiemens, July 11; bottom probe maximum, 16,700 microsiemens, July 11; top probe minimum, 199 microsiemens, Mar. 21; bottom probe minimum, 203 microsiemens, Mar. 21.

TEMPERATURE.--Top probe maximum, 33.9°C, July 4, 29, 30; bottom probe maximum, 33.8°C, July 3, 4, 29, 30; top probe minimum, 14.5°C, Jan. 1, 2; bottom probe minimum, 13.4°C, Feb. 9, 10.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	281	242	11800	1260	720	637	446	417	463	439	358	348
2	312	281	13100	1310	729	690	451	419	463	328	384	358
3	333	307	3580	863	743	647	449	429	453	375	404	384
4	353	325	3260	799	750	686	448	430	510	432	427	394
5	366	347	1970	789	735	680	452	439	---	---	436	413
6	382	360	1510	783	790	699	469	448	---	---	458	435
7	397	370	3690	804	814	732	477	455	---	---	463	405
8	414	384	1690	785	775	720	478	463	---	---	468	323
9	420	394	2670	794	761	673	556	472	---	---	470	359
10	437	403	3240	876	738	647	550	390	---	---	---	---
11	440	425	3630	876	703	646	390	353	---	---	---	---
12	466	440	3890	873	691	632	367	343	---	---	---	---
13	489	465	8980	1190	687	617	365	339	---	---	---	---
14	561	487	12200	1330	699	587	381	350	---	---	---	---
15	835	504	3420	895	693	504	369	346	---	---	---	---
16	2180	523	1810	832	505	390	382	346	---	---	---	---
17	3630	549	1030	815	393	379	381	354	---	---	---	---
18	5470	586	892	771	391	376	368	347	370	335	---	---
19	3740	584	866	462	406	387	355	347	341	322	---	---
20	882	586	834	780	417	400	362	352	331	314	475	209
21	1080	574	832	512	415	408	376	356	338	304	209	199
22	2940	617	818	567	413	400	382	366	306	297	213	200
23	1880	627	825	781	426	406	409	376	316	299	225	212
24	8330	752	825	779	430	416	404	375	323	307	233	224
25	9540	861	842	800	466	426	437	401	332	316	240	231
26	10600	1130	842	770	492	461	437	414	337	320	---	---
27	12200	1200	799	743	493	473	436	329	338	297	---	---
28	3820	771	776	697	493	469	436	408	350	306	281	254
29	2310	794	759	581	489	456	442	412	---	---	---	---
30	3230	772	736	600	481	407	455	428	---	---	---	---
31	9630	872	---	---	429	407	459	436	---	---	---	---
MONTH	12200	242	13100	462	814	376	556	329	---	---	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

[illegible]

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PWATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	297	261	12700	1280	761	659	470	437	491	466	387	375
2	327	297	13800	1310	770	726	473	440	493	348	416	386
3	345	321	3630	860	770	679	471	450	482	401	436	415
4	363	338	3340	797	796	710	470	452	543	459	449	424
5	376	357	1990	786	758	703	474	462	526	408	444	421
6	389	369	1530	781	1070	727	493	471	409	350	466	443
7	404	378	4180	804	1160	757	498	476	379	340	471	414
8	419	391	1690	785	807	748	502	486	392	352	477	333
9	425	399	2750	794	3770	717	585	496	364	334	479	367
10	442	408	3510	884	2430	695	579	411	362	334	506	474
11	444	428	3690	885	1970	799	412	373	372	343	526	495
12	464	444	3980	877	3020	810	390	362	373	348	545	519
13	493	463	9630	1200	2400	1020	386	358	378	355	564	518
14	568	492	12700	1350	1310	666	402	370	388	360	541	503
15	982	508	3510	918	946	588	389	366	383	369	540	518
16	2440	529	1850	850	588	426	403	355	446	363	542	504
17	3760	555	1040	818	450	384	403	388	465	394	554	365
18	5960	593	898	795	409	393	389	369	396	358	566	328
19	4040	591	873	471	425	405	377	369	365	346	561	458
20	898	592	842	791	435	418	384	373	355	338	484	213
21	1110	601	841	531	432	426	400	378	362	327	213	203
22	3260	624	831	599	432	417	406	390	330	318	217	204
23	3630	635	842	791	447	424	427	397	340	322	229	215
24	9210	774	843	791	452	437	429	395	347	329	237	228
25	9700	900	853	809	488	447	460	425	359	339	245	235
26	11600	1170	854	781	513	482	462	415	363	340	255	241
27	12100	1270	811	758	516	495	460	354	362	321	272	250
28	3820	783	791	715	515	492	461	435	378	329	287	259
29	2800	802	774	600	513	477	468	438	---	---	303	275
30	3590	720	759	616	505	426	483	454	---	---	311	298
31	9990	866	---	---	449	426	488	462	---	---	324	255
MONTH	12100	261	13800	471	3770	384	585	354	543	318	566	203
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	348	324	935	686	4250	2050	7650	3220	1770	711	---	---
2	376	347	769	695	2880	1840	7470	3070	1610	724	---	---
3	393	370	752	701	2230	1490	7430	2500	2260	739	---	---
4	407	393	778	716	2950	1470	7340	2800	2580	742	---	---
5	443	407	792	731	3440	1270	8720	2990	4080	720	---	---
6	476	442	785	740	4650	1270	12600	3400	2360	644	---	---
7	484	405	858	760	4420	1220	14700	3600	2540	630	---	---
8	481	378	1410	792	2890	1230	13000	3220	2360	620	---	---
9	486	370	944	790	4410	1240	13800	3250	647	497	---	---
10	502	482	1940	795	6350	1270	13000	3180	503	401	---	---
11	542	502	1040	807	7940	1250	16700	3020	450	398	---	---
12	563	489	1110	807	7160	1220	11800	1650	---	---	---	---
13	574	437	1010	838	6130	1290	5120	1170	---	---	---	---
14	577	374	1060	860	7490	1430	2830	967	---	---	---	---
15	572	414	1120	905	7070	1630	1070	887	---	---	---	---
16	571	431	1350	906	7650	1930	989	893	---	---	---	---
17	572	454	4300	945	5840	2230	987	906	---	---	---	---
18	580	429	2460	1010	6090	2270	954	855	---	---	---	---
19	593	455	2350	1140	7970	2620	914	802	---	---	---	---
20	597	535	1990	1150	8620	2540	885	751	---	---	---	---
21	613	562	2380	1300	10100	2580	803	714	---	---	---	---
22	628	586	3230	1630	8970	2690	835	734	---	---	---	---
23	645	618	5850	1790	9900	2720	853	773	---	---	---	---
24	656	616	6400	1910	12800	2720	817	715	---	---	---	---
25	667	581	8720	1960	9510	2480	769	631	---	---	---	---
26	674	463	10100	2160	10300	2230	730	666	---	---	---	---
27	684	506	8860	2530	9680	2180	843	680	---	---	---	---
28	683	577	7090	2920	9750	2620	811	688	---	---	348	322
29	694	616	6590	2700	7990	2630	764	695	---	---	324	317
30	1700	654	6450	2720	7710	3240	767	693	---	---	324	318
31	---	---	4560	2650	---	---	1590	702	---	---	---	---
MONTH	1700	324	10100	686	12800	1220	16700	666	---	---	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	28.8	26.8	24.8	23.4	21.9	20.8	16.1	14.5	18.5	16.4	23.1	21.9
2	29.3	26.8	25.1	23.8	21.2	20.1	15.9	14.5	18.7	17.3	22.3	21.2
3	29.6	26.8	23.8	23.0	21.6	20.5	16.7	15.3	19.2	18.2	21.9	20.1
4	29.3	26.8	23.4	22.3	21.2	20.8	18.5	16.1	18.8	17.6	21.2	19.1
5	28.3	26.8	23.0	21.9	21.0	20.5	20.2	17.9	---	---	21.2	18.5
6	27.8	26.7	24.2	21.5	20.5	19.1	20.9	19.5	---	---	22.3	19.5
7	27.8	26.8	23.2	22.3	19.1	17.6	21.9	20.8	---	---	22.7	20.5
8	27.3	26.8	22.3	21.2	18.2	16.7	21.9	21.5	---	---	22.7	21.2
9	26.8	26.6	21.4	20.1	19.2	17.3	21.9	21.2	---	---	23.4	21.9
10	26.8	25.9	21.5	20.1	20.8	18.8	21.9	20.1	---	---	---	---
11	26.8	25.5	21.6	20.5	22.3	20.8	20.8	19.1	---	---	---	---
12	26.8	25.5	21.9	20.5	22.3	21.9	20.5	18.2	---	---	---	---
13	26.8	25.5	22.3	21.5	21.9	21.2	19.5	18.2	---	---	---	---
14	26.8	25.5	23.4	22.3	21.2	19.2	19.9	18.2	---	---	---	---
15	26.4	25.5	23.8	22.4	19.2	17.6	19.5	19.2	---	---	---	---
16	26.8	25.3	23.4	22.3	17.6	16.1	19.8	19.5	---	---	---	---
17	27.3	25.5	22.7	20.8	16.9	15.9	19.5	18.5	---	---	---	---
18	26.8	25.5	21.3	20.3	16.1	15.3	19.4	18.2	21.9	20.0	---	---
19	25.5	24.2	21.6	19.8	16.1	14.8	18.8	18.2	21.9	20.8	21.9	20.5
20	25.5	23.4	21.9	20.5	16.7	15.3	18.3	17.6	22.7	21.2	21.6	20.1
21	25.5	23.4	22.3	21.2	17.6	16.4	19.2	18.2	22.3	20.8	21.2	20.1
22	25.1	23.4	23.4	21.5	18.6	17.0	20.2	18.7	21.9	20.8	20.5	19.5
23	24.7	23.4	23.0	23.0	19.5	18.5	20.2	19.5	22.3	21.2	20.2	18.1
24	25.1	23.4	23.0	21.5	20.8	19.5	20.5	19.8	21.3	20.1	20.2	17.3
25	25.5	23.8	21.5	20.1	22.3	20.8	19.8	18.2	21.8	19.5	20.8	18.2
26	26.4	24.2	21.2	19.5	23.8	21.9	18.2	17.6	21.2	19.1	20.8	18.8
27	26.4	25.1	20.8	19.5	23.0	21.5	19.2	17.7	21.2	19.5	22.3	19.8
28	25.1	23.8	21.6	20.1	21.5	19.8	18.4	17.0	22.7	20.8	24.0	20.8
29	24.2	23.0	21.8	20.8	20.1	18.2	18.2	16.7	---	---	25.1	22.1
30	23.4	23.0	21.9	21.2	18.2	16.7	18.2	16.7	---	---	25.5	23.0
31	23.4	23.0	---	---	17.3	16.1	18.5	16.7	---	---	25.9	22.3
MONTH	29.6	23.0	25.1	19.5	23.8	14.8	21.9	14.5	---	---	---	---
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	26.4	24.7	25.9	24.6	30.3	27.8	32.6	30.9	31.4	30.3	---	---
2	27.8	23.4	27.8	23.8	30.6	28.3	33.4	31.4	31.4	29.8	---	---
3	27.8	25.5	27.8	23.4	31.4	28.8	33.8	31.4	33.2	30.3	---	---
4	26.8	25.9	26.8	24.5	32.6	29.5	33.9	31.4	33.8	29.9	---	---
5	28.3	25.1	26.4	24.6	33.2	30.3	33.2	31.4	32.0	29.8	---	---
6	27.3	24.2	28.3	25.1	33.2	30.9	32.6	30.9	30.3	28.8	---	---
7	26.4	24.2	28.8	26.4	33.2	30.9	32.6	30.3	30.3	27.8	---	---
8	25.9	25.1	28.8	26.8	32.1	30.3	32.0	29.8	31.4	28.6	---	---
9	25.9	25.3	28.8	26.8	32.0	29.8	32.0	30.3	33.2	28.8	---	---
10	26.4	25.1	28.8	27.3	32.6	30.2	31.4	30.6	33.9	28.8	---	---
11	25.1	23.0	28.8	26.4	32.0	30.3	30.6	29.9	32.0	29.3	---	---
12	24.7	22.4	29.3	26.1	32.0	30.3	31.2	28.8	---	---	---	---
13	24.2	22.6	29.6	26.0	32.0	30.5	30.3	28.8	---	---	---	---
14	23.4	22.3	29.8	27.2	32.0	30.6	29.2	28.8	---	---	---	---
15	24.6	22.3	29.8	27.2	32.0	30.3	28.8	27.8	---	---	---	---
16	25.1	23.0	29.8	26.8	33.2	30.3	29.3	27.3	---	---	---	---
17	26.4	23.5	29.8	26.8	32.6	30.9	30.3	28.8	---	---	---	---
18	26.8	24.2	29.8	26.8	33.8	31.4	31.9	29.3	---	---	---	---
19	26.8	24.6	30.0	26.4	33.7	31.4	32.0	29.6	---	---	---	---
20	26.9	25.5	29.8	27.2	33.2	31.4	31.3	28.8	---	---	---	---
21	26.4	25.5	30.9	28.3	32.0	30.3	30.9	28.3	---	---	---	---
22	26.4	24.6	30.9	28.2	33.2	29.8	30.3	27.8	---	---	---	---
23	25.5	23.8	30.7	28.3	33.2	30.3	32.0	27.8	---	---	---	---
24	24.7	23.4	30.3	28.5	32.6	30.9	33.2	28.8	---	---	---	---
25	25.1	23.0	30.4	28.8	31.4	30.3	33.8	29.3	---	---	---	---
26	25.1	23.4	30.3	28.8	30.9	29.8	32.0	29.8	---	---	---	---
27	26.5	23.4	29.8	28.8	32.0	29.3	32.6	30.3	---	---	---	---
28	26.4	24.6	28.8	27.8	32.0	29.8	33.8	30.9	---	---	28.3	26.8
29	26.1	24.4	28.8	27.5	32.0	30.3	33.9	30.9	---	---	28.8	27.3
30	25.6	24.6	29.3	28.0	33.2	30.3	33.9	31.4	---	---	28.8	27.8
31	---	---	29.3	28.3	---	---	32.7	31.4	---	---	---	---
MONTH	28.3	22.3	30.9	23.4	33.8	27.8	33.9	27.3	---	---	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
PEACE RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	28.2	26.7	24.6	23.3	21.8	20.7	16.0	14.4	18.2	16.3	22.9	21.8
2	28.7	26.7	25.0	23.7	21.1	20.0	15.8	14.4	18.4	17.2	22.2	21.1
3	28.7	26.7	23.7	22.9	21.1	20.0	16.6	15.2	19.0	18.1	21.4	20.0
4	28.7	26.4	23.3	22.2	21.1	20.7	18.4	16.0	18.7	17.5	21.1	18.5
5	28.2	26.7	22.9	21.8	20.7	20.0	19.9	17.8	17.5	16.6	20.7	18.4
6	27.7	26.4	23.7	21.4	20.0	19.0	20.7	19.4	17.5	15.8	21.6	19.4
7	27.7	26.7	23.3	22.2	19.0	17.0	21.8	20.4	15.8	14.7	22.2	20.4
8	27.2	26.7	22.2	21.1	17.8	16.6	21.8	21.4	15.2	13.9	22.6	21.1
9	26.7	26.3	21.1	20.0	17.8	16.6	21.8	20.9	15.2	13.4	23.3	21.8
10	26.7	25.8	21.2	20.0	---	---	21.4	20.0	16.1	13.4	22.2	20.4
11	26.7	25.4	21.3	20.1	---	---	20.7	19.0	16.3	14.7	21.1	19.3
12	26.7	25.0	21.8	20.4	---	---	20.1	18.1	18.7	16.0	19.7	18.1
13	26.7	25.4	22.2	21.1	---	---	19.4	18.1	18.1	17.4	19.7	16.9
14	26.7	25.4	23.3	22.2	---	---	19.4	18.1	18.9	17.2	19.4	16.9
15	26.3	25.4	23.7	22.2	---	---	19.4	19.1	18.1	17.1	20.1	17.5
16	26.7	25.0	23.3	22.2	---	---	19.7	19.1	19.4	17.8	21.1	19.0
17	27.2	25.4	22.5	20.7	---	---	19.4	18.4	20.4	19.4	21.8	19.4
18	26.7	25.4	21.1	20.0	16.0	15.2	19.1	18.1	21.8	19.7	21.8	20.7
19	25.4	24.1	21.5	19.7	16.0	14.7	18.7	18.1	21.8	20.7	21.5	20.7
20	25.4	23.3	21.8	20.4	16.6	15.2	18.1	17.5	22.4	21.1	21.5	19.7
21	25.4	23.3	22.2	21.1	17.0	16.3	18.9	18.1	22.2	20.7	21.1	20.0
22	25.0	23.3	23.3	21.4	18.4	16.9	19.7	18.4	21.8	20.7	20.4	19.4
23	24.5	23.3	22.9	22.6	19.4	18.4	20.1	19.4	22.2	21.1	20.1	18.3
24	25.0	23.3	22.7	21.2	20.7	19.4	20.4	19.7	21.1	20.0	20.1	17.8
25	25.0	23.3	21.2	20.0	21.8	20.7	19.7	18.1	21.5	19.4	20.7	18.1
26	25.9	24.1	21.1	19.4	23.7	21.8	18.1	17.5	20.7	19.0	20.8	19.4
27	26.3	25.0	20.7	19.4	22.9	21.4	18.7	17.5	21.1	19.4	22.2	20.0
28	25.0	23.7	21.4	19.7	21.4	19.5	18.1	16.9	22.6	20.7	23.3	20.7
29	24.1	22.9	21.5	20.7	19.8	18.1	18.1	16.6	---	---	24.6	21.9
30	23.3	22.9	21.8	21.0	18.1	16.6	18.1	16.6	---	---	24.7	22.9
31	23.3	22.9	---	---	16.9	15.9	18.4	16.6	---	---	25.9	23.7
MONTH	28.7	22.9	25.0	19.4	---	---	21.8	14.4	22.6	13.4	25.9	16.9
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	26.4	24.7	25.7	24.5	30.2	27.7	32.5	30.8	31.3	30.6	---	---
2	27.8	23.4	26.3	23.7	30.2	28.6	33.5	31.3	31.3	29.7	---	---
3	27.8	25.5	26.7	24.1	31.3	28.7	33.8	31.3	32.5	30.2	---	---
4	26.8	25.9	26.7	24.5	31.4	29.7	33.8	31.3	32.5	30.2	---	---
5	28.3	25.1	26.3	24.5	32.5	30.2	33.1	31.3	31.9	29.7	---	---
6	27.3	24.2	28.2	25.4	33.1	31.3	32.5	31.3	30.2	28.8	---	---
7	26.4	24.2	28.7	26.3	33.1	31.3	32.5	30.8	30.2	28.7	---	---
8	25.9	25.1	28.7	26.7	32.5	30.2	31.9	30.2	30.8	28.7	---	---
9	25.9	25.3	28.7	26.7	31.9	29.9	32.5	30.2	31.3	28.7	---	---
10	26.4	25.1	28.7	27.2	32.5	30.2	31.3	30.8	31.3	28.7	---	---
11	25.1	23.0	28.7	26.9	31.9	30.7	30.8	30.2	31.9	29.2	---	---
12	24.7	22.4	28.7	26.7	31.9	30.8	30.8	29.0	---	---	---	---
13	24.2	22.6	29.2	26.7	31.9	30.8	30.2	28.7	---	---	---	---
14	23.4	22.3	29.3	27.2	31.9	30.8	29.2	28.7	---	---	---	---
15	24.6	22.3	29.3	27.7	31.9	30.2	28.7	27.7	---	---	---	---
16	25.1	23.0	29.7	26.7	32.5	30.2	29.6	27.2	---	---	---	---
17	26.4	23.5	28.7	26.7	32.5	30.8	30.2	28.7	---	---	---	---
18	26.8	24.2	28.7	26.7	33.1	31.3	31.3	29.2	---	---	---	---
19	26.8	24.6	28.7	27.2	33.7	31.3	31.9	29.6	---	---	---	---
20	26.9	25.5	29.7	27.2	33.1	31.3	30.5	28.7	---	---	---	---
21	26.4	25.5	30.8	28.2	31.9	30.3	29.2	28.2	---	---	---	---
22	26.4	24.6	30.8	28.7	33.1	30.2	30.2	27.7	---	---	---	---
23	25.5	23.8	30.8	28.7	33.1	30.6	31.3	27.7	---	---	---	---
24	24.7	23.4	30.2	28.7	32.5	30.8	32.5	28.7	---	---	---	---
25	25.1	23.0	30.6	28.7	31.3	30.2	32.6	29.2	---	---	---	---
26	25.1	23.4	30.2	28.7	30.8	29.9	31.9	29.7	---	---	---	---
27	26.3	23.4	29.7	28.7	31.3	29.7	31.9	30.2	---	---	---	---
28	26.3	24.5	28.7	28.2	31.4	29.7	32.5	30.8	---	---	28.6	26.7
29	25.8	24.2	29.2	27.7	31.9	30.2	33.8	30.5	---	---	28.7	27.2
30	25.4	24.5	29.2	28.0	32.0	30.2	33.8	31.3	---	---	28.7	27.7
31	---	---	28.7	28.2	---	---	32.5	31.3	---	---	---	---
MONTH	28.3	22.3	30.8	23.7	33.7	27.7	33.8	27.2	---	---	---	---

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN**

02298608 MYAKKA RIVER AT MYAKKA CITY, FL

LOCATION.--Lat 27°20'36", long 82°09'25", in SE¹/₄ 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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	55	178	542	316	269	154	12	13	6.7	90	54
2	840	79	162	455	276	255	126	12	8.6	7.6	107	52
3	667	158	143	382	449	220	105	12	5.6	3.6	109	52
4	542	158	208	319	518	193	93	10	3.9	2.3	94	59
5	464	193	434	266	548	174	83	9.4	2.8	2.7	85	58
6	391	206	380	224	524	157	75	9.4	2.4	3.8	95	55
7	314	182	328	196	485	138	68	8.8	2.1	4.7	103	52
8	236	147	287	247	431	121	63	8.0	1.8	8.1	105	54
9	174	116	243	359	374	384	60	7.0	1.7	10	204	98
10	128	92	208	391	319	490	57	6.1	1.5	15	327	354
11	96	77	179	387	272	331	52	5.2	1.4	20	353	387
12	75	67	164	340	232	264	47	4.5	1.2	37	290	367
13	60	316	1000	284	198	219	43	4.1	1.1	172	215	309
14	51	5700	2820	237	173	190	40	3.6	1.0	264	159	228
15	44	5780	2720	259	155	168	36	3.3	.88	548	118	162
16	39	3550	1900	783	387	149	33	3.0	.68	611	97	134
17	34	2150	1280	735	3940	132	30	2.8	.59	629	81	110
18	30	1350	890	602	4580	117	28	2.5	.50	550	70	102
19	31	900	621	507	2760	737	25	2.4	.44	463	66	188
20	26	610	496	422	1750	5210	23	2.3	.39	447	76	680
21	22	476	416	345	1210	5620	24	2.1	.33	406	83	1970
22	20	394	351	286	857	3460	23	2.0	.28	406	87	2140
23	18	393	300	393	676	2040	21	1.9	.23	410	88	1740
24	16	455	257	1180	563	1260	19	1.8	.26	368	85	1420
25	14	384	226	1530	475	848	17	1.7	3.7	299	76	1490
26	13	320	263	1220	402	623	16	1.6	5.3	241	67	1810
27	16	272	427	905	339	491	15	1.5	2.9	192	62	1760
28	40	232	892	659	290	392	14	1.4	2.4	150	69	1520
29	34	198	1020	527	---	312	13	3.8	2.5	117	72	1180
30	29	177	915	449	---	249	13	16	2.6	96	68	886
31	29	---	697	380	---	195	---	20	---	81	60	---
TOTAL	5633	25187	20405	15811	23499	25408	1416	182.2	72.08	6571.5	3661	19471
MEAN	182	840	658	510	839	820	47.2	5.88	2.40	212	118	649
MAX	1140	5780	2820	1530	4580	5620	154	20	13	629	353	2140
MIN	13	55	143	196	155	117	13	1.4	.23	2.3	60	52
CFSM	1.45	6.72	5.27	4.08	6.71	6.56	.38	.05	.02	1.70	.94	5.19
IN.	1.68	7.50	6.07	4.71	6.99	7.56	.42	.05	.02	1.96	1.09	5.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN RAIN FOR YEARS 1964 - 1998, BY MONTH YEAR (WY)																			
MEAN	137	74.8	66.4	93.2	112	139	67.2	28.7	178	231	335	345							
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1964 - 1998
ANNUAL TOTAL	81409.5	147316.78	
ANNUAL MEAN	223	404	151
HIGHEST ANNUAL MEAN			404
LOWEST ANNUAL MEAN			49.1
HIGHEST DAILY MEAN	5780	Nov 15	9250
LOWEST DAILY MEAN	3.3	Jun 22	.00
ANNUAL SEVEN-DAY MINIMUM	4.0	Jun 17	.00
INSTANTANEOUS PEAK FLOW			6910
INSTANTANEOUS PEAK STAGE			15.47
ANNUAL RUNOFF (CFSM)	1.78	3.23	1.21
ANNUAL RUNOFF (INCHES)	24.23	43.84	16.39
10 PERCENT EXCEEDS	504	902	388
50 PERCENT EXCEEDS	29	158	43
90 PERCENT EXCEEDS	7.9	2.8	5.2

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

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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 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- PER ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC 17...	1020	11.66	1320	130	4.70	14.0	7.1
MAY 06...	0845	3.71	9.5	279	5.80	22.0	4.7
JUN 04...	0915	3.38	4.1	481	6.20	27.0	4.0
AUG 06...	0901	6.32	95	277	6.20	25.0	4.9
SEP 30...	0931	10.91	912	151	5.00	24.5	2.1

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)
DEC 17...	<.01	.05	.06	.78	--	.32
MAY 06...	.01	.06	.04	.80	.21	.22
JUN 04...	.05	.40	.11	.87	.59	.62
AUG 06...	.03	.14	.44	1.5	.43	.43
SEP 30...	.02	.02	.04	1.0	.48	.47

LOCATION.--Lat 27°14'25", long 82°18'50", in SW¹/₄ 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 mi².

REMARKS.--Records good. Records include flow from Vanderipe Slough at extreme high stages.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1510	141	562	1020	823	795	668	36	7.2	6.9	276	110
2	1470	143	531	955	743	711	584	33	6.7	5.6	265	103
3	1340	145	504	873	733	646	516	31	6.5	5.0	248	97
4	1180	152	555	793	748	599	461	29	6.5	4.5	236	93
5	1030	162	648	717	761	552	419	30	6.3	4.4	225	88
6	915	173	682	660	763	514	376	29	6.1	5.0	212	85
7	810	185	678	615	772	477	337	27	5.9	6.2	207	85
8	719	195	651	605	763	443	302	26	5.7	8.6	203	100
9	650	202	618	614	732	482	273	24	6.1	8.2	194	108
10	591	206	583	618	688	533	250	23	5.9	7.5	190	113
11	538	208	550	615	644	573	224	21	5.4	7.9	182	110
12	491	207	523	604	603	577	200	20	5.0	8.9	182	110
13	e437	248	760	592	563	550	178	19	4.6	16	186	119
14	406	966	1590	574	524	515	159	19	4.2	31	189	132
15	377	2700	2420	575	491	479	147	18	3.8	50	189	141
16	347	3760	2790	668	539	445	137	17	3.4	74	190	160
17	321	3750	2720	786	1360	411	128	16	3.2	93	200	181
18	297	3360	2390	877	3220	380	119	14	2.8	119	206	189
19	278	2860	1980	900	4060	576	108	13	2.5	154	203	217
20	255	2330	1620	872	3900	1730	99	11	2.3	212	209	337
21	234	1870	1340	812	3440	3700	92	10	2.3	269	210	487
22	221	1580	1110	743	2890	4900	83	9.5	2.7	328	206	681
23	209	1330	936	715	2370	4870	75	8.9	2.9	364	200	1010
24	196	1110	804	768	1900	4140	68	8.5	2.8	390	191	1330
25	185	949	707	893	1550	3300	61	7.7	2.8	398	178	1510
26	174	835	665	1070	1280	2550	56	7.0	2.8	394	162	1610
27	168	745	667	1220	1060	1950	51	6.3	2.7	382	151	1680
28	167	674	773	1240	891	1520	46	6.2	3.0	364	143	1740
29	158	625	891	1160	---	1210	42	7.0	3.2	341	135	1740
30	150	588	994	1050	---	965	38	9.5	4.4	316	126	1650
31	145	---	1040	933	---	790	---	8.8	---	293	118	---
TOTAL	15969	32399	33282	25137	38811	41883	6297	545.4	129.7	4666.7	6012	16116
MEAN	515	1080	1074	811	1386	1351	210	17.6	4.32	151	194	537
MAX	1510	3760	2790	1240	4060	4900	668	36	7.2	398	276	1740
MIN	145	141	504	574	491	380	38	6.2	2.3	4.4	118	85
CFSM	2.25	4.72	4.69	3.54	6.05	5.90	.92	.08	.02	.66	.85	2.35
IN.	2.59	5.26	5.41	4.08	6.30	6.80	1.02	.09	.02	.76	.98	2.62

	1967, BY MONTH				1967, BY YEAR				1967, BY MONTH			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MEAN	383	106	79.0	115	132	170	99.0	40.1	178	424	621	687
MAX	1325	1080	1074	811	1386	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

FOR 1997 CALENDAR YEAR			FOR 1998 WATER YEAR			FOR 1999 WATER YEAR		
ANNUAL TOTAL	124551.4		221247.8					
ANNUAL MEAN	341		606			254		
HIGHEST ANNUAL MEAN						606		1998
LOWEST ANNUAL MEAN						73.1		1956
HIGHEST DAILY MEAN	3760	Nov 16	4900	Mar 22		8680	Jun 29	1992
LOWEST DAILY MEAN	5.8	Jun 23	2.3	Jun 20		.00	Many	Days
ANNUAL SEVEN-DAY MINIMUM	7.3	Jun 20	2.6	Jun 18		.00	Mar 28	1938
INSTANTANEOUS PEAK FLOW			5050	Mar 22		8680	Jun 29	1992
INSTANTANEOUS PEAK STAGE			10.57	Mar 22		17.85	Sep 7	1988
INSTANTANEOUS LOW FLOW			2.0	Jun 21		2.0	Jun 21	1998
ANNUAL RUNOFF (CFSM)	1.49		2.65			1.11		
ANNUAL RUNOFF (INCHES)	20.23		35.94			15.05		
10 PERCENT EXCEEDS	842		1530			682		
50 PERCENT EXCEEDS	124		302			79		
90 PERCENT EXCEEDS	17		6.6			.70		

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

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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 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (000065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (000095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (000400)	TEMPER- ATURE WATER (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (000080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)
NOV 20...	0945	9.12	2370	101	4.60	18.9	--	3.5	--	--	--	--
APR 16...	0850	5.04	139	134	4.80	22.0	160	5.1	11	5.0	5.9	2.2
JUN 02...	0930	1.96	6.7	242	6.70	28.0	--	4.2	--	--	--	--
SEP 02...	0900	4.45	104	260	5.70	27.0	200	1.1	24	10	7.9	3.6
17...	0840	5.42	179	262	5.40	25.0	160	2.5	23	11	7.8	3.6

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)
NOV 20...	--	--	--	--	--	<.01	.06	.03	.62	.30	.29
APR 16...	22	7.4	.16	.7	112	<.01	<.02	.06	.99	.42	.39
JUN 02...	--	--	--	--	--	.04	.07	.57	2.0	.69	.63
SEP 02...	63	14	.21	7.2	216	.01	<.02	.12	1.5	.49	.44
17...	69	13	.20	7.1	222	.01	.02	.09	1.2	.27	.24

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 20...	--	--	--	--	--	--	--	--	--	--	--
APR 16...	71	<1.0	<1.0	<1.0	1.3	270	<1	<.1	<1.0	440	2.8
JUN 02...	--	--	--	--	--	--	--	--	--	--	--
SEP 02...	50	1.2	<1.0	<1.0	<1.0	311	<1	<.1	<1.0	1000	1.9
17...	58	<1.0	<1.0	<1.0	<1.0	207	<1	.2	<1.0	1200	1.3

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN**

02298928 TRIBUTARY TO MYAKKA RIVER NEAR VENICE, FL

LOCATION.--Lat 27°27'07", long 82°20'37", in SE¹/₄ 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 mi², 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	3.1	15	23	16	15	10	.64	.00	.00	.33	1.6
2	93	3.4	14	21	16	15	9.4	.50	.00	.00	2.3	1.4
3	62	3.6	12	18	27	13	8.4	.24	.00	.00	1.2	1.3
4	42	3.2	17	17	24	12	7.9	.06	.00	.00	.76	1.6
5	30	2.9	21	15	20	10	7.2	.05	.00	.00	.64	1.3
6	23	2.6	18	14	20	9.7	6.5	.01	.00	.00	.58	1.0
7	18	2.5	16	13	29	9.1	6.0	.00	.00	.00	.50	1.4
8	13	2.5	15	16	25	8.5	5.5	.00	.00	.00	.47	1.2
9	9.8	2.6	13	17	21	24	5.2	.00	.00	.00	.37	3.4
10	8.2	2.6	13	15	18	22	4.8	.00	.00	.00	.32	7.5
11	6.8	2.5	12	14	17	17	4.5	.00	.00	.00	.26	4.2
12	5.7	2.3	12	12	16	14	4.0	.00	.00	.00	.20	3.1
13	5.0	4.8	35	11	15	12	3.7	.00	.00	.00	.10	2.4
14	4.3	39	49	11	13	11	3.4	.00	.00	.00	.01	2.0
15	3.9	30	51	13	13	10	3.2	.00	.00	.00	.00	1.8
16	3.4	113	58	35	34	9.3	3.1	.00	.00	.00	.00	1.7
17	3.1	318	67	28	53	8.6	2.9	.00	.00	.00	.52	1.8
18	3.3	423	68	23	71	8.0	2.6	.00	.00	.00	1.3	3.3
19	3.9	429	59	20	222	118	2.4	.00	.00	.00	2.3	18
20	3.6	358	43	19	416	254	2.3	.00	.00	.00	6.2	86
21	3.1	233	29	17	503	270	2.1	.00	.00	.00	11	114
22	2.7	134	22	16	470	427	2.0	.00	.00	.00	8.8	90
23	2.4	74	21	36	370	610	1.8	.00	.00	.00	7.5	78
24	2.2	30	19	55	223	696	1.6	.00	.00	.00	9.8	87
25	1.9	21	17	46	95	651	1.5	.00	.00	.00	7.7	79
26	1.8	19	18	39	29	521	1.3	.00	.00	.00	5.6	64
27	2.3	17	33	34	16	347	1.1	.00	.00	.00	4.2	52
28	4.5	16	47	29	14	160	.93	.00	.00	.00	3.4	40
29	4.1	14	36	24	---	45	.75	.00	.00	.00	2.8	32
30	3.7	14	29	21	---	15	.67	.00	.00	.00	2.3	26
31	3.4	---	25	18	---	12	---	.00	---	.00	1.9	---
TOTAL	501.1	2320.6	904	690	2806	4354.2	116.75	1.50	0.00	0.00	83.36	808.0
MEAN	16.2	77.4	29.2	22.3	100	140	3.89	.048	.000	.000	2.69	26.9
MAX	127	429	68	55	503	696	10	.64	.00	.00	11	114
MIN	1.8	2.3	12	11	13	8.0	.67	.00	.00	.00	.00	1.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1998, BY WATER YEAR (WY)

MEAN	19.3	18.0	6.09	5.36	20.2	28.3	.82	.036	1.04	9.58	21.2	33.1
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 1997 CALENDAR YEAR			FOR 1998 WATER YEAR			WATER YEARS 1994 - 1998		
ANNUAL TOTAL	4959.35			12585.51			13.5		
ANNUAL MEAN	13.6			34.5			34.5		
HIGHEST ANNUAL MEAN							4.35		
LOWEST ANNUAL MEAN									
HIGHEST DAILY MEAN	429			Nov 19			696		
LOWEST DAILY MEAN	.00			Many Days			.00		
ANNUAL SEVEN-DAY MINIMUM	.00			Jan 1			.00		
INSTANTANEOUS PEAK FLOW							704		
INSTANTANEOUS PEAK STAGE							7.25		
10 PERCENT EXCEEDS	29						65		
50 PERCENT EXCEEDS	.00						4.5		
90 PERCENT EXCEEDS	.00						.00		

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

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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 down-stream 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	4.1	27	30	26	30	25	1.7	.00	.00	.66	7.2
2	37	4.9	24	28	25	28	23	1.5	.00	.00	.67	6.4
3	34	5.7	23	26	29	25	21	1.3	.00	.00	.70	5.7
4	31	5.6	26	25	28	23	20	1.1	.00	.00	.61	5.4
5	29	5.5	29	24	26	21	20	1.2	.00	.00	.51	4.7
6	26	5.1	28	23	26	19	18	1.1	.00	.00	.49	4.2
7	23	4.8	28	21	28	17	17	.91	.00	.00	.53	4.3
8	21	4.4	27	21	27	15	16	.79	.00	.00	.54	4.1
9	19	4.0	26	20	26	24	15	.67	.00	.00	.58	4.9
10	17	3.6	26	18	25	24	15	.55	.00	.00	.67	5.0
11	15	3.3	25	17	23	24	13	.43	.00	.00	.73	4.3
12	13	3.0	26	15	22	24	12	.34	.00	.00	.67	3.7
13	12	4.8	52	14	21	24	11	.26	.00	.00	.64	3.1
14	11	29	91	13	19	23	11	.20	.00	.04	.59	2.7
15	11	49	108	15	18	23	10	.15	.00	.12	.58	2.4
16	10	59	107	20	24	22	9.1	.11	.00	.11	.69	2.3
17	9.0	65	98	21	30	21	8.2	.08	.00	.08	1.1	2.1
18	8.4	70	86	22	35	20	7.4	.06	.00	.06	2.1	2.2
19	8.5	70	72	23	38	80	6.8	.04	.00	.05	4.4	4.9
20	7.6	67	60	23	44	165	6.2	.03	.00	.09	8.1	17
21	6.6	61	49	23	51	175	5.7	.01	.00	.22	11	27
22	5.8	59	40	23	55	162	5.2	.01	.00	.43	14	36
23	5.0	58	35	39	55	144	4.5	.00	.00	.61	17	40
24	4.3	52	31	56	49	124	3.9	.00	.00	.75	18	42
25	3.8	46	28	55	43	104	3.4	.00	.00	.78	17	45
26	3.4	41	27	48	38	80	3.0	.00	.00	.73	16	49
27	3.7	36	31	42	34	62	2.7	.00	.00	.76	14	50
28	5.2	33	34	37	31	48	2.4	.00	.00	.72	13	49
29	5.0	30	34	33	---	38	2.1	.00	.00	.73	11	47
30	4.7	28	33	31	---	32	1.8	.00	.00	.71	9.9	44
31	4.4	---	31	28	---	28	---	.00	---	.65	8.4	---
TOTAL	436.4	911.8	1362	834	896	1649	319.4	12.54	0.00	7.64	174.86	525.6
MEAN	14.1	30.4	43.9	26.9	32.0	53.2	10.6	.40	.000	.25	5.64	17.5
MAX	42	70	108	56	55	175	25	1.7	.00	.78	18	50
MIN	3.4	3.0	23	13	18	15	1.8	.00	.00	.00	.49	2.1
AC-FT	866	1810	2700	1650	1780	3270	634	25	.00	15	347	1040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1998, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998
MEAN	19.0	10.2	9.06	5.91	6.65
MAX	45.6	30.4	43.9	26.9	32.0
(WY)	1996	1998	1998	1998	1998
MIN	.010	.000	.000	.000	.000
(WY)	1997	1997	1997	1997	1997

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1994 - 1998
ANNUAL TOTAL	3888.06	7129.24	
ANNUAL MEAN	10.7	19.5	10.4
HIGHEST ANNUAL MEAN			19.5
LOWEST ANNUAL MEAN			3.23
HIGHEST DAILY MEAN	108 Dec 15	175 Mar 21	175 Mar 21 1998
LOWEST DAILY MEAN	.00 Many Days	.00 Many Days	.00 Many Days
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 May 23	.00 Feb 13 1994
INSTANTANEOUS PEAK FLOW		177 Mar 21	177 Mar 21 1998
INSTANTANEOUS PEAK STAGE		29.76 Mar 21	29.76 Mar 21 1998
ANNUAL RUNOFF (AC-FT)	7710	14140	7500
10 PERCENT EXCEEDS	34	49	35
50 PERCENT EXCEEDS	.04	11	.32
90 PERCENT EXCEEDS	.00	.00	.00

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	4.7	101	153	120	128	131	1.0	.11	.01	4.0	14
2	275	5.6	91	140	114	121	113	.86	.09	.01	3.7	11
3	243	5.6	82	129	130	109	96	.72	.07	.02	3.4	9.4
4	209	5.1	86	118	124	99	81	.70	.06	.01	3.0	8.3
5	177	4.7	92	109	116	89	67	.78	.05	.00	2.6	7.1
6	150	4.3	90	100	110	79	54	.69	.03	.01	2.3	6.2
7	127	3.9	86	92	120	70	43	.63	.02	.02	2.4	6.1
8	108	3.6	83	88	117	61	35	.58	.00	.03	3.0	5.8
9	93	3.2	79	87	112	80	29	.49	.01	.02	3.2	6.2
10	80	2.9	75	80	105	85	24	.44	.01	.01	4.2	8.3
11	69	2.8	71	74	99	82	20	.37	.00	.01	4.2	8.1
12	58	2.7	70	68	94	78	17	.32	.00	.06	3.9	7.0
13	49	9.3	157	63	87	74	14	.28	.00	.27	3.4	5.9
14	42	59	292	57	80	69	12	.22	.00	.39	3.0	5.2
15	35	88	342	60	76	64	11	.17	.00	.48	2.8	5.1
16	30	125	351	86	108	59	9.2	.15	.00	.49	5.5	4.6
17	25	157	347	89	136	55	8.1	.14	.00	.46	14	4.7
18	22	174	332	91	152	50	7.0	.12	.00	.42	19	6.5
19	21	179	312	91	151	196	6.1	.12	.00	.40	24	33
20	18	177	286	90	157	341	5.2	.12	.00	.52	33	133
21	15	170	261	88	161	354	4.5	.10	.00	.78	56	190
22	12	168	235	86	162	349	3.9	.08	.01	1.4	46	185
23	10	170	209	148	163	336	3.3	.09	.01	3.1	44	180
24	8.2	167	184	216	161	317	2.9	.07	.01	4.7	80	176
25	6.5	157	163	212	157	298	2.5	.08	.02	5.4	79	174
26	5.1	145	152	201	150	275	2.2	.06	.01	5.6	65	177
27	5.9	133	166	189	142	249	1.9	.06	.01	5.7	50	174
28	7.7	121	188	175	133	223	1.6	.11	.01	5.8	39	167
29	6.8	110	184	159	---	197	1.4	.12	.00	5.5	32	157
30	6.0	103	178	145	---	171	1.2	.15	.02	4.9	23	146
31	5.4	---	167	133	---	150	---	.15	---	4.4	17	---
TOTAL	2220.6	2461.4	5512	3617	3537	4908	808.0	9.97	0.55	50.92	675.6	2021.5
MEAN	71.6	82.0	178	117	126	158	26.9	.32	.018	1.64	21.8	67.4
MAX	301	179	351	216	163	354	131	1.0	.11	5.8	80	190
MIN	5.1	2.7	70	57	76	50	1.2	.06	.00	.00	2.3	4.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1998, BY WATER YEAR (WY)

	MEAN	86.2	31.5	37.9	27.2	26.6	32.6	6.78	1.07	12.8	52.7	92.9	112
	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	.26	.000	.018	1.27	19.4	3.43
	(WY)	1994	1997	1997	1997	1997	1994	1995	1995	1998	1996	1996	1996

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1994 - 1998
ANNUAL TOTAL	15369.41	25822.54	
ANNUAL MEAN	42.1	70.7	43.5
HIGHEST ANNUAL MEAN			73.9
LOWEST ANNUAL MEAN			16.5
HIGHEST DAILY MEAN	351	Dec 16	368
LOWEST DAILY MEAN	.00	Many Days	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 3	.00
INSTANTANEOUS PEAK FLOW			393
INSTANTANEOUS PEAK STAGE			24.58
10 PERCENT EXCEEDS	151	178	157
50 PERCENT EXCEEDS	4.3	32	3.6
90 PERCENT EXCEEDS	.05	.04	.00

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EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.83 ft, Aug. 23; minimum, 16.49 ft, Sept. 26.

[illegible]

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

02299410 BIG SLOUGH CANAL NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°11'35", long 82°08'40", in SW¹/₄ 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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	501	9.0	45	129	67	44	27	e.23	.29	.00	3.4	3.5
2	427	11	38	96	56	44	24	e.20	.22	.00	3.5	3.7
3	342	15	31	71	143	38	20	e.17	.19	.00	2.8	2.9
4	250	15	107	57	152	33	19	e.15	.15	.00	1.8	2.5
5	183	13	163	48	146	29	e15	e.13	.12	.00	1.7	2.4
6	128	12	165	42	124	27	e12	e.11	.07	.00	3.3	2.5
7	80	10	147	40	137	25	e10	e.10	.03	.00	5.7	4.6
8	48	9.5	114	40	127	23	e8.5	e.09	.02	.00	7.3	4.5
9	32	8.8	79	42	109	151	e7.0	e.08	.16	.00	7.1	4.3
10	24	8.1	57	41	82	197	e6.0	e.07	.15	.00	8.6	9.2
11	20	7.6	46	36	63	210	e5.2	e.06	.07	.00	21	8.4
12	17	7.1	50	31	51	183	e4.4	e.05	.01	3.1	8.5	4.8
13	15	19	299	28	43	141	e3.7	e.04	.00	13	4.7	3.6
14	13	267	496	26	38	93	e3.1	e.04	.00	6.8	3.4	2.8
15	11	406	634	34	36	57	e2.6	e.03	.00	9.4	2.5	2.8
16	10	458	633	121	136	41	e2.3	e.03	.00	12	2.6	9.3
17	9.1	413	532	144	220	33	e2.9	e.02	.00	14	5.0	5.5
18	8.6	338	413	135	319	28	e1.6	e.02	.00	13	4.9	4.6
19	8.9	253	309	98	370	379	e1.4	e.01	.00	13	4.3	55
20	8.4	190	225	66	350	834	e1.2	e.01	.00	14	4.1	186
21	7.8	139	173	50	301	1360	e1.0	e.00	.00	17	7.7	204
22	7.4	121	132	41	251	1080	e.80	e.00	.00	18	10	217
23	7.0	152	97	255	204	716	e.70	e.00	.00	18	17	198
24	6.3	156	73	389	163	507	e.60	e.00	.00	13	24	184
25	5.8	148	58	442	122	365	e.55	e.00	.00	11	19	182
26	5.3	124	60	407	82	253	e.45	e.00	.00	9.6	14	214
27	6.2	93	117	326	57	171	e.40	e.00	.00	14	11	217
28	9.9	68	184	237	46	109	e.35	.22	.00	9.1	8.7	231
29	9.8	52	201	180	---	63	e.30	.49	.00	6.6	6.1	229
30	9.5	47	190	135	---	41	e.25	.85	.00	5.1	4.5	204
31	9.1	---	162	95	---	31	---	.50	---	4.1	3.8	---
TOTAL	2220.1	3570.1	6030	3882	3995	7306	182.30	3.70	1.48	223.80	232.0	2402.9
MEAN	71.6	119	195	125	143	236	6.08	.12	.049	7.22	7.48	80.1
MAX	501	458	634	442	370	1360	27	.85	.29	18	24	231
MIN	5.3	7.1	31	26	36	23	.25	.00	.00	.00	1.7	2.4
AC-FT	4400	7080	11960	7700	7920	14490	362	7.3	2.9	444	460	4770

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1998, BY WATER YEAR (WY)

	MEAN	37.4	15.5	18.6	18.7	22.0	40.2	16.4	5.60	65.5	44.2	68.1	81.0
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1981 - 1998
ANNUAL TOTAL	21234.61	30049.38	
ANNUAL MEAN	58.2	82.3	36.1
HIGHEST ANNUAL MEAN			87.6
LOWEST ANNUAL MEAN			5.26
HIGHEST DAILY MEAN	634 Dec 15	1360 Mar 21	7300 Jun 27 1992
LOWEST DAILY MEAN	.06 Apr 11	.00 Many Days	.00 Many Days
ANNUAL SEVEN-DAY MINIMUM	.24 Apr 5	.00 May 21	.00 Dec 26 1980
INSTANTANEOUS PEAK FLOW		1430 Mar 21	8600 Jun 27 1992
INSTANTANEOUS PEAK STAGE		31.30 Mar 21	33.73 Sep 21 1962
ANNUAL RUNOFF (AC-FT)	42120	59600	26170
10 PERCENT EXCEEDS	183	233	85
50 PERCENT EXCEEDS	9.0	13	6.7
90 PERCENT EXCEEDS	2.1	.01	.45

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

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02299455 BIG SLOUGH CANAL NEAR NORTH PORT CHARLOTTE, FL

LOCATION.--Lat 27°06'30", long 82°12'200", in SW¹/₄ 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 mi².

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).

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 ft³/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, 21.64 ft, Dec. 16 (may have been exceeded during period of missing record in March); minimum, 10.15 ft, Aug. 7.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.30	15.87	17.10	16.50	16.21	15.92	13.66	13.60	13.33	10.56	14.34
2	19.46	14.54	15.72	16.73	16.44	16.16	15.71	13.65	13.57	13.21	10.43	14.33
3	19.27	14.70	15.57	16.46	17.27	15.97	15.50	13.62	13.54	13.21	10.34	14.32
4	18.76	14.63	16.04	16.26	17.28	15.78	15.33	13.60	13.50	13.19	10.26	14.28
5	18.32	14.61	17.18	16.10	17.22	15.57	---	13.71	13.46	13.18	10.19	14.23
6	17.59	14.52	17.25	15.98	17.13	15.40	---	13.71	13.42	13.20	10.16	14.23
7	16.82	14.39	17.21	15.92	17.38	15.25	---	13.64	13.40	13.22	---	14.44
8	16.30	14.30	16.88	15.90	17.16	15.12	---	13.60	13.39	13.27	---	14.68
9	15.89	14.20	16.50	15.98	16.93	16.50	---	13.58	13.40	13.22	---	14.95
10	15.57	14.14	16.18	15.98	16.70	17.32	---	13.56	13.41	13.19	---	15.17
11	15.33	14.09	15.95	15.93	16.47	17.52	---	13.56	13.41	13.17	---	14.98
12	15.14	14.05	15.90	15.76	16.31	17.49	---	13.58	13.40	13.16	14.71	14.77
13	14.97	14.32	18.19	15.57	16.14	17.11	---	13.54	13.39	13.11	14.46	14.59
14	14.81	17.47	19.52	15.40	15.99	16.61	---	13.53	13.39	12.82	14.25	14.45
15	14.66	18.10	20.83	15.49	15.94	16.21	---	13.53	13.38	12.83	14.15	14.35
16	14.55	18.68	21.58	16.75	17.30	15.89	---	13.52	13.39	12.79	14.16	14.32
17	14.44	19.26	21.35	17.06	18.36	15.60	---	13.49	13.39	12.60	15.00	14.36
18	14.39	19.10	20.44	17.18	18.36	15.36	---	13.45	13.38	12.40	15.68	14.37
19	14.40	18.65	19.32	16.88	18.64	---	---	13.43	13.39	12.21	15.06	15.99
20	14.33	18.19	18.59	16.48	19.06	---	13.95	13.42	---	12.33	15.34	18.69
21	14.26	17.57	18.08	16.18	18.83	---	13.90	13.40	---	12.46	16.11	18.58
22	14.20	16.93	17.45	15.99	18.42	---	13.88	13.40	---	12.60	15.62	18.25
23	14.15	17.05	16.91	18.34	18.11	---	13.82	13.40	---	12.60	16.98	18.03
24	14.10	17.14	16.58	19.19	17.65	---	13.78	13.43	---	12.18	17.66	17.76
25	14.06	17.07	16.35	19.36	17.09	---	13.78	13.44	13.40	11.81	16.30	17.42
26	14.02	16.88	16.32	19.33	16.69	18.91	13.74	13.42	13.39	11.50	15.60	17.46
27	14.09	16.59	16.95	19.09	16.41	18.14	13.74	13.41	13.38	11.32	15.16	17.45
28	14.34	16.30	17.67	18.63	16.22	17.38	13.73	13.43	13.38	11.07	14.88	17.40
29	14.29	16.04	17.67	18.08	---	16.75	13.71	13.44	13.37	10.83	14.76	17.37
30	14.26	15.90	17.73	17.41	---	16.36	13.69	13.59	13.50	10.68	14.60	17.26
31	14.31	---	17.53	16.86	---	16.12	---	13.65	---	10.60	14.45	---
MEAN	---	16.12	17.59	16.88	17.21	---	---	13.53	---	12.49	---	15.76
MAX	---	19.26	21.58	19.36	19.06	---	---	13.71	---	13.33	---	18.69
MIN	---	14.05	15.57	15.40	15.94	---	---	13.40	---	10.60	---	14.23

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

02299484 BIG SLOUGH AT WCS-101 AT NORTH PORT, FL

LOCATION.--Lat 27°02'48", long 82°14'17", in NE¹/₄ 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 mi², approximately.

PERIOD OF RECORD.--June 1993 to current year (gage heights only).

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, 22.06 ft, Mar. 20; minimum, 18.34 ft, Apr. 17.

GAGE HEIGHT, FEET, PERIOD JUNE TO SEPTEMBER 1993
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	19.83	19.99	20.24
2	---	---	---	---	---	---	---	---	---	19.91	19.85	20.16
3	---	---	---	---	---	---	---	---	---	19.95	19.79	20.10
4	---	---	---	---	---	---	---	---	---	20.03	19.87	20.06
5	---	---	---	---	---	---	---	---	---	19.89	19.79	20.10
6	---	---	---	---	---	---	---	---	---	19.87	19.74	20.19
7	---	---	---	---	---	---	---	---	19.14	19.87	19.73	20.22
8	---	---	---	---	---	---	---	---	19.04	19.95	19.72	20.30
9	---	---	---	---	---	---	---	---	18.91	20.08	19.73	20.37
10	---	---	---	---	---	---	---	---	18.86	19.94	19.73	20.27
11	---	---	---	---	---	---	---	---	18.78	19.88	19.79	20.24
12	---	---	---	---	---	---	---	---	18.65	20.06	19.78	20.24
13	---	---	---	---	---	---	---	---	18.50	19.97	19.78	20.26
14	---	---	---	---	---	---	---	---	18.78	19.94	19.76	20.30
15	---	---	---	---	---	---	---	---	19.14	19.88	19.77	20.19
16	---	---	---	---	---	---	---	---	19.15	19.83	19.82	20.20
17	---	---	---	---	---	---	---	---	19.11	19.80	19.91	20.21
18	---	---	---	---	---	---	---	---	19.02	19.77	19.85	20.17
19	---	---	---	---	---	---	---	---	18.88	19.75	19.75	20.13
20	---	---	---	---	---	---	---	---	18.77	19.72	19.70	20.09
21	---	---	---	---	---	---	---	---	18.99	19.71	19.68	20.08
22	---	---	---	---	---	---	---	---	19.20	19.69	19.66	20.14
23	---	---	---	---	---	---	---	---	19.58	19.68	19.64	20.09
24	---	---	---	---	---	---	---	---	19.72	19.68	19.63	20.05
25	---	---	---	---	---	---	---	---	20.05	19.81	19.62	20.04
26	---	---	---	---	---	---	---	---	20.01	19.76	19.73	20.08
27	---	---	---	---	---	---	---	---	19.90	19.66	19.74	20.02
28	---	---	---	---	---	---	---	---	19.83	19.82	19.74	20.03
29	---	---	---	---	---	---	---	---	19.75	20.01	19.92	20.00
30	---	---	---	---	---	---	---	---	19.71	19.89	20.15	19.95
31	---	---	---	---	---	---	---	---	---	19.93	20.23	---
MEAN	---	---	---	---	---	---	---	---	---	19.86	19.79	20.15
MAX	---	---	---	---	---	---	---	---	---	20.08	20.23	20.37
MIN	---	---	---	---	---	---	---	---	---	19.66	19.62	19.95

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

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02299484 BIG SLOUGH AT WCS-101 AT NORTH PORT, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.91	20.41	19.79	19.66	19.80	19.78	19.74	19.82	19.63	20.03	20.67	20.28
2	19.89	20.31	19.82	19.89	19.79	19.83	19.76	19.86	19.75	20.10	20.48	20.11
3	19.87	20.26	19.82	19.88	19.79	19.81	19.77	19.84	19.99	20.09	20.16	20.08
4	19.85	20.23	19.81	19.81	19.81	19.83	19.77	19.81	19.96	20.06	20.04	20.27
5	19.85	20.19	19.79	19.81	19.82	19.91	19.78	19.82	19.89	20.02	20.05	20.40
6	19.86	20.16	19.78	19.78	19.82	19.92	19.77	19.86	19.92	20.00	20.01	20.30
7	19.92	20.14	19.78	19.79	19.88	19.91	19.77	19.88	19.94	20.06	20.03	20.26
8	19.90	20.12	19.74	19.83	19.92	19.90	19.77	19.87	19.93	20.07	20.16	20.26
9	19.92	20.10	19.72	19.83	19.76	19.88	19.75	19.86	19.94	20.06	20.28	20.36
10	20.01	20.09	19.75	19.80	19.75	19.87	19.74	19.86	19.89	20.05	20.49	20.38
11	19.99	20.07	19.75	19.79	19.78	19.86	19.73	19.86	19.85	20.05	20.54	20.62
12	19.93	20.05	19.73	19.79	19.82	19.85	19.71	19.87	19.85	20.06	20.36	21.08
13	19.89	20.03	19.72	19.79	19.83	19.84	19.71	19.87	19.88	20.08	20.27	21.05
14	19.88	20.01	19.73	19.80	19.82	19.81	19.71	19.88	19.85	20.05	20.55	20.91
15	19.88	19.99	19.72	19.78	19.79	19.75	19.71	19.87	19.85	20.02	20.61	20.87
16	20.20	19.96	19.72	19.79	19.82	19.75	19.71	19.87	19.95	20.00	20.73	20.97
17	20.44	19.97	19.71	19.79	19.85	19.75	19.73	19.87	19.98	19.98	20.64	20.84
18	20.33	19.99	19.70	19.90	19.84	19.75	19.77	19.84	20.00	19.97	20.53	20.90
19	20.24	19.94	19.70	19.88	19.89	19.76	19.82	19.79	20.02	19.97	20.40	20.93
20	20.19	19.92	19.69	19.87	19.92	19.78	19.88	19.74	20.02	20.06	20.28	21.14
21	20.14	19.89	19.71	19.86	19.92	19.78	19.83	19.72	20.00	20.07	20.22	21.20
22	20.11	19.88	19.69	19.91	19.85	19.74	19.84	19.73	19.99	20.11	20.19	21.16
23	20.15	19.87	19.72	19.90	19.81	19.75	19.87	19.72	19.96	20.11	20.19	21.06
24	20.19	19.85	19.75	19.88	19.85	19.78	19.96	19.67	19.93	20.06	20.29	20.91
25	20.12	19.84	19.80	19.83	19.85	19.90	19.94	19.64	19.90	20.10	20.38	20.78
26	20.16	19.84	19.80	19.79	19.84	19.77	20.01	19.63	19.91	20.23	20.78	20.67
27	20.23	19.83	19.76	19.80	19.84	19.74	20.18	19.63	19.90	20.18	20.76	20.73
28	20.17	19.83	19.69	19.84	19.82	19.76	19.94	19.63	19.96	20.15	20.70	20.71
29	20.14	19.80	19.66	19.82	---	19.80	19.85	19.63	19.84	20.15	20.68	20.59
30	20.12	19.77	19.66	19.87	---	19.76	19.82	19.64	19.84	20.13	20.54	20.51
31	20.43	---	19.65	19.87	---	19.75	---	19.63	---	20.12	20.42	---
MEAN	20.06	20.01	19.74	19.83	19.83	19.81	19.81	19.78	19.91	20.07	20.40	20.68
MAX	20.44	20.41	19.82	19.91	19.92	19.92	20.18	19.88	20.02	20.23	20.78	21.20
MIN	19.85	19.77	19.65	19.66	19.75	19.74	19.71	19.63	19.63	19.97	20.01	20.08

WTR YR 1994 MEAN 19.99 MAX 21.20 MIN 19.63

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

02299484 BIG SLOUGH AT WCS-101 AT NORTH PORT, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.45	20.34	19.93	20.03	19.99	19.96	19.86	19.89	19.63	20.51	20.74	21.18
2	20.62	20.40	---	20.01	19.96	19.95	19.91	19.93	19.73	20.43	20.74	21.48
3	20.58	20.36	---	20.00	19.96	19.95	19.91	19.90	19.75	20.38	20.91	21.08
4	20.49	20.29	---	20.01	19.96	19.95	19.86	19.87	19.69	20.29	21.00	20.94
5	20.42	20.23	---	20.00	19.95	19.94	19.85	19.83	19.63	20.27	20.80	20.91
6	20.35	20.18	---	20.02	---	19.93	19.91	19.81	20.04	20.18	20.61	20.90
7	20.26	20.14	---	20.03	---	19.94	19.91	19.79	20.11	20.16	20.52	21.03
8	20.17	20.11	---	20.09	---	20.01	19.95	19.82	20.15	20.15	20.46	20.94
9	20.21	20.09	---	20.10	---	20.05	19.94	19.74	20.13	20.13	20.49	20.71
10	20.29	20.08	19.98	20.08	---	20.06	19.90	19.77	20.06	20.08	20.66	20.59
11	20.33	20.06	20.00	20.07	19.95	20.06	19.88	19.75	20.03	20.03	20.60	20.59
12	20.44	20.05	20.02	20.05	20.00	20.02	19.87	19.74	20.00	20.11	20.27	20.54
13	20.52	20.02	20.00	20.03	20.03	19.98	19.85	19.73	19.94	20.25	20.27	20.53
14	20.37	20.02	19.98	20.11	20.27	19.95	19.81	19.74	19.39	20.24	20.36	20.50
15	20.40	20.03	19.96	20.16	20.20	19.93	19.79	19.75	19.47	20.15	20.33	20.30
16	20.34	20.08	19.95	20.19	20.13	19.93	19.82	19.76	20.00	20.21	20.30	20.04
17	20.31	20.13	19.93	20.19	20.10	19.89	19.83	19.74	19.97	20.29	20.05	19.93
18	20.29	20.14	19.91	20.18	20.06	19.90	19.81	19.67	19.93	20.92	19.97	19.88
19	20.25	20.16	19.90	20.15	20.04	19.92	19.78	19.61	19.91	21.49	19.98	19.82
20	20.21	20.14	19.89	20.12	20.07	19.95	19.74	19.59	19.88	21.03	19.91	19.72
21	20.19	20.12	20.05	20.09	20.15	19.96	19.77	19.60	19.95	20.83	19.87	19.78
22	20.16	20.09	20.15	20.06	20.12	19.92	19.79	19.61	20.01	20.78	19.87	19.81
23	20.14	20.07	20.25	20.04	20.09	19.89	19.79	19.59	21.62	20.73	20.08	19.75
24	20.14	20.04	20.23	20.03	20.07	19.88	19.77	19.61	21.52	20.59	20.18	19.77
25	20.19	20.02	20.22	20.01	20.05	19.86	19.74	19.63	21.22	20.42	20.79	20.08
26	20.13	20.00	20.19	19.99	20.02	19.88	19.74	19.60	20.91	20.34	20.83	20.16
27	20.14	19.98	20.14	19.98	20.00	19.83	19.71	19.63	20.54	20.20	20.77	20.23
28	20.17	19.97	20.11	19.98	19.97	19.80	19.76	19.65	20.53	20.49	20.71	20.23
29	20.18	19.96	20.12	19.97	---	19.79	19.81	19.65	20.48	20.49	20.78	20.16
30	20.19	19.94	20.06	19.99	---	19.79	19.85	19.62	20.48	20.73	20.85	20.23
31	20.22	---	20.04	20.00	---	19.79	---	19.61	---	20.72	20.92	---
MEAN	20.30	20.11	---	20.06	---	19.92	19.83	19.72	20.16	20.44	20.47	20.39
MAX	20.62	20.40	---	20.19	---	20.06	19.95	19.93	21.62	21.49	21.00	21.48
MIN	20.13	19.94	---	19.97	---	19.79	19.71	19.59	19.39	20.03	19.87	19.72

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

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02299484 BIG SLOUGH AT WCS-101 AT NORTH PORT, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.98	20.06	19.96	20.14	19.96	19.88	19.45	19.86	19.83	19.49	20.01	19.22
2	19.78	20.14	19.98	20.12	19.93	19.95	19.47	19.90	19.80	19.47	19.91	19.21
3	19.69	20.17	19.95	20.16	20.04	20.04	19.48	20.22	19.78	19.42	20.00	19.33
4	19.91	20.14	19.93	19.96	20.10	20.03	19.48	19.99	19.77	19.37	20.02	19.75
5	20.33	20.10	19.90	20.19	20.09	19.99	19.50	19.93	19.76	19.48	20.06	19.79
6	21.01	20.15	19.89	20.31	20.08	19.99	19.33	19.91	19.75	19.56	20.02	19.79
7	21.13	20.21	19.89	20.29	20.09	19.94	19.30	19.87	19.89	19.52	19.64	19.87
8	21.07	20.20	19.88	20.26	20.07	19.93	19.43	19.84	19.73	19.49	19.46	20.08
9	21.09	20.19	19.90	20.21	20.05	19.91	19.51	19.81	19.70	19.60	19.39	19.92
10	21.05	20.17	19.98	20.19	20.03	19.90	19.33	19.91	19.70	19.42	19.55	19.46
11	20.97	20.15	19.95	20.18	20.01	19.90	19.50	19.81	19.97	19.45	19.47	19.39
12	21.01	20.16	19.94	20.22	19.99	19.89	19.91	19.83	19.91	19.54	19.53	19.78
13	20.98	20.14	19.90	20.26	19.96	19.90	19.90	19.80	19.86	19.53	19.42	19.99
14	20.87	20.12	19.89	20.23	19.95	19.92	19.87	19.78	19.77	19.54	19.38	19.98
15	20.84	20.11	19.88	20.21	19.97	19.92	19.85	19.76	19.79	19.66	19.35	19.96
16	20.71	20.09	19.88	20.19	20.10	19.90	19.82	19.76	20.03	19.71	19.33	19.94
17	20.61	20.06	19.89	20.18	20.01	19.90	19.80	19.75	20.01	19.68	19.31	19.92
18	20.53	20.05	19.89	20.16	19.96	19.91	19.80	19.75	19.73	19.56	19.31	19.90
19	20.31	20.04	19.91	20.15	19.95	19.90	19.79	19.76	19.44	19.41	19.35	19.88
20	20.41	20.03	19.91	20.13	19.95	19.87	19.79	19.86	19.65	19.36	19.41	19.93
21	20.08	20.02	19.89	20.11	19.93	19.84	19.79	19.72	19.70	19.35	19.36	19.97
22	19.92	20.02	19.88	20.10	19.93	19.82	19.79	20.05	19.63	19.34	19.33	19.96
23	19.89	19.99	19.89	20.08	19.92	19.83	19.80	20.03	19.54	19.26	19.35	19.97
24	19.95	19.98	19.88	20.07	19.92	19.83	19.79	19.96	19.51	19.24	19.33	19.94
25	19.79	19.97	19.91	20.06	19.90	19.82	19.76	20.03	19.67	19.23	19.31	19.90
26	19.88	19.96	19.91	20.03	19.91	19.80	19.75	20.03	19.59	19.30	19.30	19.89
27	20.05	19.96	19.91	20.03	19.89	19.82	19.75	20.03	19.65	19.74	19.32	19.87
28	20.11	19.96	19.92	20.02	19.88	19.96	19.79	19.88	19.70	19.79	19.49	19.87
29	20.08	19.98	19.92	20.01	19.89	19.81	19.80	19.26	19.53	19.78	19.26	19.87
30	20.02	19.99	19.92	20.01	---	19.79	19.87	19.23	19.48	19.78	19.25	19.92
31	19.98	---	19.95	19.97	---	19.43	---	19.48	---	19.88	19.23	---
MEAN	20.39	20.08	19.91	20.14	19.98	19.88	19.67	19.83	19.73	19.51	19.50	19.81
MAX	21.13	20.21	19.98	20.31	20.10	20.04	19.91	20.22	20.03	19.88	20.06	20.08
MIN	19.69	19.96	19.88	19.96	19.88	19.43	19.30	19.23	19.44	19.23	19.23	19.21

WTR YR 1996 MEAN 19.87 MAX 21.13 MIN 19.21

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MYAKKA RIVER BASIN

02299484 BIG SLOUGH AT WCS-101 AT NORTH PORT, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.93	19.78	19.71	19.77	19.79	19.83	19.72	19.73	19.85	20.05	20.11	19.56
2	19.82	19.76	19.75	19.77	19.78	19.82	19.71	19.94	19.90	20.10	19.95	19.94
3	19.84	19.74	19.80	19.77	19.79	19.82	19.70	20.26	19.88	20.19	19.85	19.43
4	19.97	19.75	19.78	19.75	19.79	19.81	19.70	20.19	19.87	20.10	19.90	19.38
5	19.81	19.76	19.77	19.75	19.91	19.81	19.70	20.14	19.85	20.06	19.98	19.35
6	19.82	19.75	19.77	19.75	20.04	19.81	19.70	20.08	19.83	20.11	19.88	19.32
7	19.78	19.76	19.77	19.75	20.05	19.80	19.70	20.09	19.80	20.02	19.88	19.30
8	20.09	19.75	19.86	19.75	20.04	19.80	19.70	20.00	19.80	19.80	20.18	19.28
9	19.95	19.77	19.80	19.78	20.00	19.80	19.72	19.96	19.88	19.75	20.24	19.27
10	19.72	19.77	19.79	19.85	19.94	19.79	19.71	19.92	19.79	19.63	20.27	19.27
11	19.77	19.77	19.78	19.86	19.90	19.77	19.69	19.91	19.77	19.74	20.33	19.62
12	19.59	19.76	19.78	19.87	19.87	19.75	19.82	19.82	19.82	19.72	20.19	19.28
13	19.49	19.73	19.78	19.85	19.85	19.74	19.78	19.41	20.01	19.68	20.23	19.26
14	19.41	19.74	19.79	19.85	19.84	19.88	19.78	19.57	20.00	19.55	20.05	19.24
15	19.45	19.73	19.79	19.85	19.84	19.84	19.84	19.97	19.96	19.57	20.10	19.24
16	19.44	19.71	19.79	19.86	19.85	19.87	19.87	19.94	19.92	19.80	20.03	19.55
17	19.32	19.68	19.78	19.85	19.85	19.91	19.89	19.91	19.88	19.58	19.83	19.26
18	19.34	19.67	19.78	19.83	19.83	19.91	19.88	19.90	19.84	19.68	19.80	19.25
19	19.30	19.68	19.78	19.81	19.81	19.88	19.85	19.89	19.81	19.78	19.58	19.24
20	19.28	19.71	19.78	19.80	19.79	19.85	19.83	20.09	19.80	19.75	19.79	19.23
21	19.52	19.72	19.79	19.81	19.78	19.82	19.81	20.07	19.77	19.70	19.66	19.22
22	19.93	19.70	19.78	19.82	19.77	19.81	19.80	20.03	19.75	19.88	19.84	19.44
23	19.92	19.70	19.78	19.81	19.77	19.79	19.80	19.99	19.75	20.23	19.87	19.85
24	19.89	19.71	19.79	19.80	19.78	19.79	19.86	20.05	19.86	20.19	19.68	19.65
25	19.96	19.74	19.78	19.81	19.80	19.78	19.85	20.04	20.02	20.33	19.63	19.35
26	19.87	19.74	19.78	19.82	19.81	19.85	20.18	20.00	20.10	20.48	19.54	19.43
27	19.84	19.76	19.79	19.85	19.82	19.80	19.92	19.95	20.12	20.21	19.51	20.59
28	19.81	19.71	19.79	19.83	19.83	19.76	19.79	19.95	20.00	20.24	19.54	21.41
29	19.80	19.73	19.79	19.81	---	19.74	19.79	20.06	19.96	20.23	19.41	21.12
30	19.79	19.74	19.78	19.80	---	19.74	19.70	19.90	20.02	20.18	19.37	20.99
31	19.79	---	19.78	19.80	---	19.73	---	19.87	---	20.26	19.34	---
MEAN	19.72	19.73	19.78	19.81	19.85	19.81	19.79	19.96	19.89	19.95	19.86	19.61
MAX	20.09	19.78	19.86	19.87	20.05	19.91	20.18	20.26	20.12	20.48	20.33	21.41
MIN	19.28	19.67	19.71	19.75	19.77	19.73	19.69	19.41	19.75	19.55	19.34	19.22
CAL YR 1996	MEAN 19.77		MAX 20.31	MIN 19.21								
WTR YR 1997	MEAN 19.81		MAX 21.41	MIN 19.22								

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.97	19.60	19.99	20.17	20.11	19.74	19.96	19.73	19.75	19.92	20.09	20.13
2	20.91	19.64	19.92	20.08	20.07	19.71	19.40	19.72	19.73	19.80	20.19	20.13
3	20.74	19.37	19.70	19.90	20.30	19.65	19.19	19.69	19.71	19.79	20.19	19.99
4	20.55	19.35	19.70	19.81	20.32	19.53	19.08	19.73	19.69	19.77	19.93	20.10
5	20.45	19.35	20.06	19.73	20.24	19.49	18.97	19.80	19.68	19.77	19.89	19.99
6	20.28	19.33	20.11	19.74	20.25	19.47	18.87	19.84	19.66	19.80	19.91	19.97
7	20.05	19.31	20.11	19.68	20.33	19.42	18.81	19.81	19.64	19.79	19.94	20.09
8	19.84	19.62	20.01	19.63	20.21	19.41	18.74	19.79	19.64	19.82	20.14	20.27
9	19.68	19.99	19.86	19.61	20.17	19.91	18.67	19.77	19.66	19.87	20.28	20.24
10	19.55	19.97	19.74	19.63	20.03	20.14	18.61	19.76	19.70	19.87	20.44	20.22
11	19.48	19.94	19.74	19.61	20.01	20.23	18.57	19.76	19.67	19.87	20.20	20.01
12	19.44	19.93	19.58	19.56	19.78	20.25	18.52	19.76	19.65	19.92	20.32	20.18
13	19.41	19.67	20.58	19.56	19.73	20.11	18.51	19.76	19.65	20.36	20.18	20.14
14	19.38	20.24	20.96	19.45	19.66	19.85	18.44	19.76	19.64	20.24	20.15	20.11
15	19.36	20.34	21.09	19.51	19.63	19.72	18.44	19.76	19.63	20.11	20.14	20.09
16	19.34	20.45	21.22	20.05	20.29	19.65	18.38	19.75	19.63	20.07	20.15	20.19
17	19.32	20.62	21.20	20.08	20.67	19.49	18.57	19.75	19.63	20.29	20.29	20.00
18	19.31	20.63	21.06	20.13	20.66	19.44	19.53	19.94	19.63	20.19	20.13	20.16
19	19.32	20.55	20.81	20.05	20.73	20.88	19.85	19.82	19.64	20.21	19.77	20.45
20	19.54	20.42	20.60	20.03	20.78	21.86	19.87	19.74	19.65	20.28	20.26	20.87
21	20.01	20.25	20.47	19.68	20.63	21.82	19.90	19.70	19.64	20.31	20.15	20.72
22	20.02	20.06	20.34	19.65	20.61	21.94	19.86	19.68	19.64	20.07	19.96	20.65
23	19.98	20.05	20.17	20.73	20.58	21.84	19.82	19.67	19.64	19.75	20.35	20.57
24	19.95	20.14	19.95	21.08	20.40	21.59	19.81	19.66	19.75	20.02	20.54	20.71
25	19.93	20.06	19.87	20.98	20.28	21.28	19.82	19.67	19.86	20.38	20.15	20.63
26	19.91	20.06	19.97	20.99	20.07	20.99	19.82	19.67	19.80	20.35	19.98	20.34
27	19.66	19.99	20.21	20.89	19.93	20.67	19.76	19.67	19.71	20.32	19.73	20.12
28	19.33	20.15	20.53	20.75	19.66	20.28	19.80	19.71	19.70	20.25	19.54	20.18
29	19.60	20.06	20.48	20.58	---	20.09	19.77	19.71	19.71	20.16	20.18	20.18
30	20.02	20.00	20.52	20.39	---	19.97	19.68	19.73	19.93	20.10	20.16	20.17
31	19.73	---	20.41	20.14	---	19.95	---	19.77	---	20.12	20.13	---
MEAN	19.84	19.97	20.29	20.06	20.22	20.27	19.23	19.74	19.69	20.05	20.11	20.25
MAX	20.97	20.63	21.22	21.08	20.78	21.94	19.96	19.94	19.93	20.38	20.54	20.87
MIN	19.31	19.31	19.58	19.45	19.63	19.41	18.38	19.66	19.63	19.75	19.54	19.97
CAL YR 1997	MEAN 19.89		MAX 21.41		MIN 19.22							
WTR YR 1998	MEAN 19.98		MAX 21.94		MIN 18.38							

WATER RESOURCES DATA FOR FLORIDA, 1998
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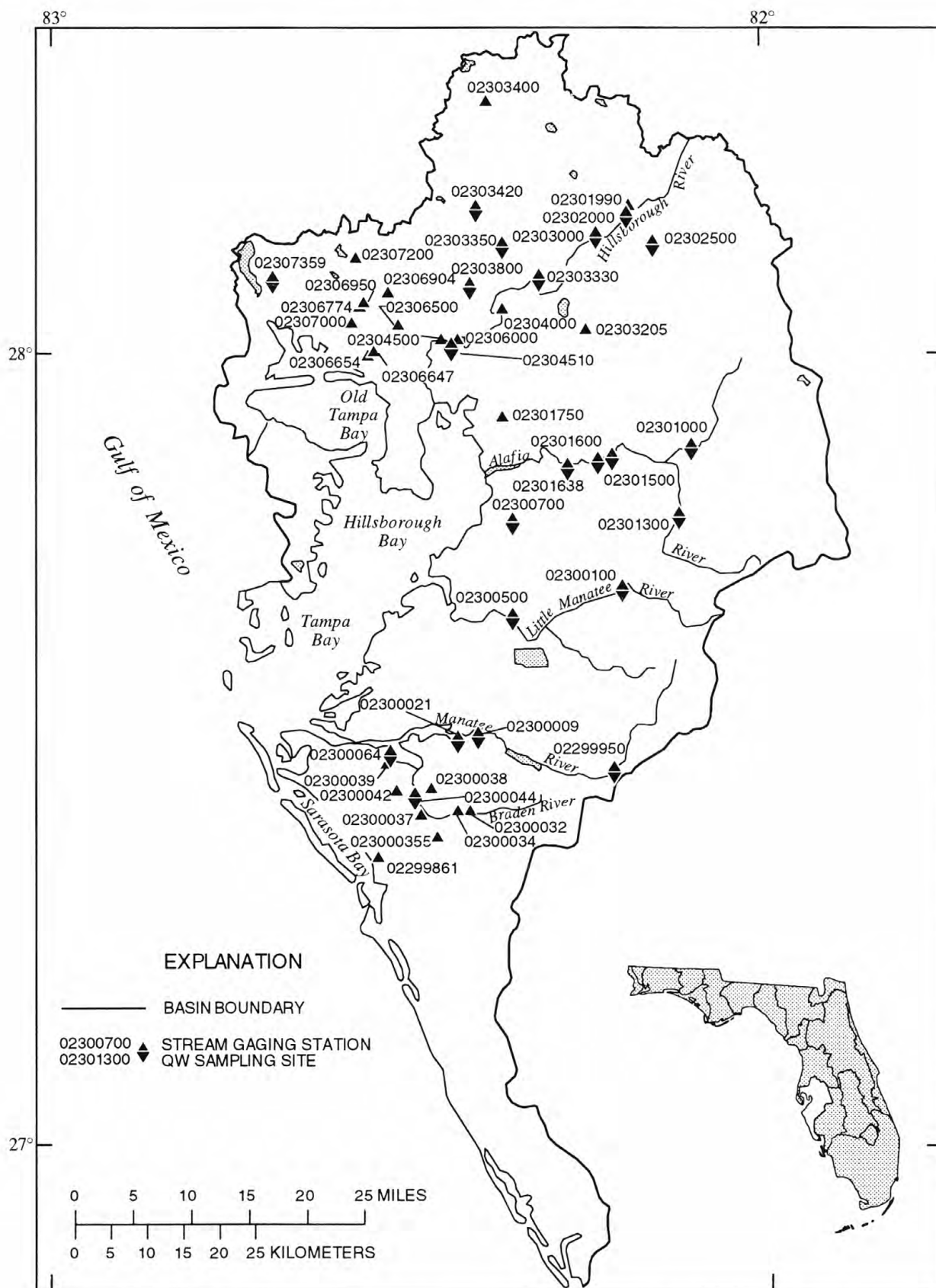


Figure 15.--Location of stream gaging stations in the Coastal area between Myakka and Manatee Rivers, Manatee, Little Manatee, Alafia, Hillsborough River Basins, Tampa Bay and Coastal area.

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA BETWEEN MYAKKA AND MANATEE RIVERS

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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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	16	5.9	9.6	4.6	19	5.5	2.0	1.7	2.0	1.1	1.5
2	4.7	28	4.4	8.9	20	14	4.9	1.9	1.3	1.8	1.1	2.9
3	4.0	11	4.0	8.4	22	12	4.5	1.7	1.1	1.6	1.0	13
4	3.7	7.8	24	7.5	9.7	11	4.4	5.1	1.3	1.4	.99	5.5
5	3.1	5.7	12	7.2	6.6	10	4.3	4.8	1.6	1.8	1.1	2.5
6	3.0	4.9	8.9	6.8	10	10	4.6	2.6	1.7	1.8	1.1	2.7
7	3.1	4.7	7.4	6.6	12	10	3.4	2.0	1.8	1.6	1.2	2.4
8	2.7	4.1	6.7	55	9.0	10	3.2	1.6	1.7	1.3	3.8	2.2
9	2.4	3.7	6.1	17	8.0	33	3.7	1.4	1.7	e1.1	8.8	2.0
10	2.5	3.7	5.8	11	7.4	14	4.5	1.4	2.3	1.8	5.1	1.7
11	2.3	3.3	5.8	8.9	6.9	12	3.7	1.1	1.7	1.7	2.1	1.5
12	1.9	4.1	14	7.8	6.5	10	2.7	1.1	1.6	5.0	1.5	1.4
13	1.9	200	196	7.2	6.4	9.6	2.6	1.1	1.2	13	1.3	1.4
14	1.8	113	65	7.0	6.2	9.2	2.4	.95	1.2	5.8	1.1	1.4
15	e1.7	24	28	11	14	9.0	2.3	.90	1.1	2.9	.96	1.4
16	1.8	13	16	12	87	8.0	2.4	.86	1.0	2.4	4.8	2.2
17	1.9	9.7	12	8.5	76	7.6	2.4	.84	.82	1.8	4.7	5.1
18	17	7.8	10	7.4	20	7.7	2.1	.90	.66	1.5	2.0	5.5
19	6.6	6.8	9.5	7.0	13	222	2.1	.97	.38	1.3	20	38
20	3.9	6.3	8.8	6.5	18	149	2.1	1.0	.46	1.5	8.3	45
21	2.8	5.7	8.4	6.1	9.4	42	2.1	.97	.45	5.9	4.3	93
22	2.3	5.9	8.1	5.9	10	21	2.0	.95	.41	6.5	4.7	15
23	2.1	7.6	7.9	156	13	15	1.8	.98	5.2	4.5	3.8	10
24	e2.1	5.6	7.8	60	12	12	2.1	.91	19	e2.2	3.0	19
25	2.1	4.8	8.2	22	11	10	1.8	.84	9.0	e1.7	2.4	18
26	e2.0	4.4	17	13	10	8.7	1.9	.97	3.8	1.5	2.1	22
27	12	4.1	148	11	10	7.4	1.9	.98	2.9	1.3	2.1	11
28	7.5	4.0	35	8.6	10	6.4	1.8	1.6	2.4	1.2	2.0	8.6
29	4.3	4.1	18	6.5	---	5.8	1.7	1.6	2.7	1.1	1.8	7.5
30	3.5	6.4	14	5.7	---	5.7	1.8	21	2.2	1.1	1.6	8.1
31	44	---	11	5.1	---	6.0	---	4.4	---	1.1	1.6	---
TOTAL	160.5	530.2	733.7	521.2	448.7	727.1	86.7	69.42	74.38	81.2	101.45	351.5
MEAN	5.18	17.7	23.7	16.8	16.0	23.5	2.89	2.24	2.48	2.62	3.27	11.7
MAX	44	200	196	156	87	222	5.5	21	19	13	20	93
MIN	1.7	3.3	4.0	5.1	4.6	5.7	1.7	.84	.38	1.1	.96	1.4
CFSM	1.05	3.60	4.82	3.42	3.26	4.78	.59	.46	.50	.53	.67	2.39
IN.	1.22	4.02	5.56	3.95	3.40	5.51	.66	.93	.56	.62	.77	2.66

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1998, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	9.89	6.34	5.75	7.38	6.12	7.45	5.75	2.57	9.61	7.90	12.0
MAX	28.8	17.7	23.7	16.8	16.0	23.5	14.6	4.24	33.5	13.9	31.5
(WY)	1996	1998	1998	1998	1998	1998	1993	1996	1992	1995	1995
MIN	2.50	1.41	1.08	1.42	1.22	1.25	2.89	1.21	1.79	2.62	3.14
(WY)	1992	1992	1992	1992	1997	1997	1998	1994	1994	1998	1997

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1992 - 1998
ANNUAL TOTAL	2303.00	3886.05	
ANNUAL MEAN	6.31	10.6	7.78
HIGHEST ANNUAL MEAN			10.6
LOWEST ANNUAL MEAN			3.49
HIGHEST DAILY MEAN	200	222	348
LOWEST DAILY MEAN	.12	.38	.12
ANNUAL SEVEN-DAY MINIMUM	.24	.60	.24
INSTANTANEOUS PEAK FLOW		636	971
INSTANTANEOUS PEAK STAGE		10.70	13.01
ANNUAL RUNOFF (CFSM)	1.29	2.17	1.59
ANNUAL RUNOFF (INCHES)	17.45	29.44	21.54
10 PERCENT EXCEEDS	10	18	15
50 PERCENT EXCEEDS	2.1	4.6	3.5
90 PERCENT EXCEEDS	.88	1.1	1.2

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN**

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 mi².

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 fair. 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	43	61	143	64	74	37	12	6.1	6.3	10	15
2	122	163	61	109	68	121	33	15	5.1	9.2	14	14
3	101	177	51	88	361	100	30	11	4.3	5.7	24	15
4	160	115	123	75	417	69	27	8.3	3.3	4.8	17	21
5	114	69	266	67	254	55	25	8.5	2.7	3.5	12	33
6	73	51	204	60	155	47	24	8.4	2.8	5.7	19	25
7	52	41	119	56	137	42	22	7.9	2.5	8.2	58	21
8	41	35	84	92	114	39	22	7.0	2.2	7.8	515	93
9	34	30	68	192	88	211	20	7.2	1.7	5.9	196	82
10	29	27	59	154	70	280	19	7.4	1.5	5.9	103	67
11	25	26	53	100	59	136	18	7.6	1.5	11	79	76
12	22	23	53	75	53	79	15	7.4	1.5	14	60	105
13	20	783	1270	62	49	62	14	6.5	1.6	22	41	63
14	19	5000	2000	55	49	55	13	5.8	1.4	99	29	40
15	17	1340	891	68	53	48	12	5.3	.88	240	23	30
16	15	571	460	172	817	42	13	5.4	.66	227	37	27
17	14	358	288	162	1220	36	12	4.9	.57	107	55	29
18	15	237	190	103	765	32	13	5.2	.45	55	60	33
19	20	168	139	76	391	1310	13	5.3	.49	38	44	615
20	21	146	110	63	302	4830	12	4.5	2.9	45	35	2740
21	16	104	91	55	268	1640	16	4.3	10	74	45	1320
22	12	89	78	49	181	656	22	4.5	6.0	119	161	684
23	12	82	71	432	125	372	18	4.4	7.4	78	131	464
24	13	73	66	1910	96	233	12	4.1	4.2	55	71	366
25	12	62	62	755	77	149	9.4	4.0	3.3	37	46	512
26	11	54	96	400	64	101	8.6	4.1	3.6	29	33	1540
27	14	48	524	258	56	77	8.9	4.5	3.1	24	26	841
28	35	45	1050	182	54	64	9.7	5.5	2.5	18	22	471
29	40	43	469	124	---	55	9.3	12	2.1	14	19	311
30	34	47	280	92	---	47	8.5	14	1.7	16	17	249
31	30	---	195	75	---	43	---	8.5	---	12	15	---
TOTAL	1335	10050	9532	6304	6407	11105	516.4	220.5	88.05	1397.0	2017	10902
MEAN	43.1	335	307	203	229	358	17.2	7.11	2.94	45.1	65.1	363
MAX	192	5000	2000	1910	1220	4830	37	15	10	240	515	2740
MIN	11	23	51	49	49	32	8.5	4.0	.45	3.5	10	14
CFSM	.66	5.13	4.71	3.11	3.50	5.49	.26	.11	.04	.69	1.00	5.57
IN.	.76	5.73	5.43	3.59	3.65	6.33	.29	.13	.05	.80	1.15	6.21
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1998, BY WATER YEAR (WY)												
MEAN	50.7	33.3	34.0	42.1	44.6	64.6	25.4	23.9	83.5	117	164	173
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 1997 CALENDAR YEAR				FOR 1998 WATER YEAR				WATER YEARS 1967 - 1998			
ANNUAL TOTAL	36826.6				59873.95				71.5			
ANNUAL MEAN	101				164				164			
HIGHEST ANNUAL MEAN									23.0			
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	5000				5000				5000			
LOWEST DAILY MEAN	1.8				.45				.12			
ANNUAL SEVEN-DAY MINIMUM	2.1				.86				.18			
INSTANTANEOUS PEAK FLOW					7190				7190			
INSTANTANEOUS PEAK STAGE					18.08				18.08			
INSTANTANEOUS LOW FLOW					.37				.37			
ANNUAL RUNOFF (CFSM)	1.55				2.51				1.09			
ANNUAL RUNOFF (INCHES)	20.98				34.11				14.87			
10 PERCENT EXCEEDS	220				363				168			
50 PERCENT EXCEEDS	20				45				17			
90 PERCENT EXCEEDS	5.9				5.0				3.9			

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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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 1997 TO SEPTEMBER 1998

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)
DEC 17...	0930	7.56	301	93	5.25	12.5	--	9.2	--	--	--	--
MAY 06...	1410	1.56	8.6	266	6.50	22.0	--	9.9	.8	--	--	--
SEP 21...	1140	13.35	1320	68	5.10	23.0	280	7.0	1.5	5.1	2.4	2.8
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)
DEC 17...	--	--	--	--	--	--	<.01	.25	.04	.86	--	.23
MAY 06...	--	--	--	--	--	--	<.01	.08	.02	.36	.37	.36
SEP 21...	2.9	11	5.4	.14	3.3	94	.01	.20	.04	.98	.26	.25
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)
DEC 17...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--	--	--	--	6.4
SEP 21...	348	<1.0	<1.0	<1.0	2.5	307	<1	<.1	<1.0	100	4.7	22

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300009 MANATEE RIVER AT DEVIL'S ELBOW NEAR FT. HAMER, FL

LOCATION.--Lat 27°31'14", long 82°24'07", in NE¹/₄ sec.16, T.34 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on left bank, on wooden "A" frame structure on Upper Manatee River Road, 3.0 mi upstream from Ft. Hamer, and 17.5 mi upstream from mouth.

DRAINAGE AREA.--139 mi²

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--March 1997 to March 1998 (gage heights only), discontinued.

GAGE.--Water-stage recorder. Datum of gage is 18.40 ft (corrected) 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, 25.05 ft, Nov. 14, 1997; minimum, 17.28 ft, Apr. 1, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.05 ft, Nov. 14; minimum, 17.45 ft, Feb. 25.

GAGE HEIGHT, FEET, PERIOD OCTOBER 1997 TO MARCH 1998

DAY	MAX OCTOBER	MIN OCTOBER	MAX NOVEMBER	MIN NOVEMBER	MAX DECEMBER	MIN DECEMBER	MAX JANUARY	MIN JANUARY	MAX FEBRUARY	MIN FEBRUARY	MAX MARCH	MIN MARCH
1	20.16	18.33	21.33	18.78	---	---	18.81	18.32	19.98	18.04	20.57	18.49
2	20.41	18.63	21.60	19.17	---	---	---	---	20.90	18.40	20.27	18.30
3	19.95	17.91	20.36	18.20	---	---	---	---	21.44	19.94	20.11	18.05
4	20.06	18.00	20.15	17.87	---	---	---	---	21.20	20.41	19.83	18.16
5	20.08	18.05	19.99	17.66	---	---	---	---	20.84	19.28	20.17	17.77
6	19.85	17.62	19.81	17.78	---	---	---	---	20.31	18.07	---	---
7	19.80	17.60	20.10	18.77	---	---	---	---	20.31	18.64	---	---
8	19.88	17.73	19.78	18.13	---	---	---	---	20.31	17.99	---	---
9	20.18	17.70	20.05	18.10	---	---	---	---	20.07	17.98	---	---
10	20.04	17.57	20.17	18.40	---	---	---	---	20.01	17.57	---	---
11	19.95	17.67	20.32	18.15	20.34	18.33	---	---	20.42	18.29	---	---
12	20.32	18.02	20.64	18.16	20.23	18.22	---	---	20.56	18.08	---	---
13	20.15	18.19	24.51	18.49	23.57	20.10	---	---	20.15	17.99	---	---
14	20.31	18.24	---	---	24.30	23.57	---	---	19.85	17.74	---	---
15	20.42	18.12	---	---	24.16	21.25	---	---	20.28	17.87	---	---
16	20.41	17.96	---	---	21.30	18.89	---	---	22.72	20.28	---	---
17	20.44	17.96	---	---	19.75	18.54	---	---	22.64	21.66	---	---
18	20.78	18.07	---	---	19.79	17.97	---	---	22.49	20.14	---	---
19	20.91	18.45	---	---	19.53	18.38	20.01	18.34	20.14	19.28	---	---
20	20.09	17.65	---	---	19.46	18.36	19.86	18.32	19.95	19.21	---	---
21	20.25	17.94	---	---	19.71	18.33	19.66	18.33	19.67	18.55	---	---
22	20.33	18.37	---	---	19.86	18.57	20.26	18.32	20.71	17.88	---	---
23	20.13	18.17	---	---	19.50	18.32	23.81	18.31	20.88	18.71	---	---
24	20.65	18.96	---	---	20.13	18.43	24.30	23.81	20.54	17.90	---	---
25	20.65	18.86	---	---	20.19	18.35	24.20	20.52	19.75	17.45	---	---
26	20.63	19.25	---	---	20.32	18.48	21.02	18.51	20.16	17.64	---	---
27	21.30	19.17	---	---	22.87	20.05	21.20	19.11	20.92	18.46	---	---
28	20.41	18.10	---	---	22.87	21.13	20.97	18.47	20.74	18.45	---	---
29	19.86	17.99	---	---	21.36	19.38	20.30	17.94	---	---	---	---
30	20.11	17.79	---	---	21.20	18.77	20.31	18.20	---	---	---	---
31	20.92	18.27	---	---	20.13	18.32	20.36	18.21	---	---	---	---
MONTH	21.30	17.57	---	---	---	---	---	---	22.72	17.45	---	---

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WATER-QUALITY RECORDS

[illegible]

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300009 MANATEE RIVER AT DEVIL'S ELBOW NEAR FT. HAMER, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD OCTOBER 1997 TO MARCH 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	455	279	433	171	---	---	175	123	126	103	126	96
2	507	202	438	169	---	---	126	115	109	87	131	101
3	409	198	200	180	---	---	131	114	101	91	176	121
4	529	241	198	178	---	---	248	127	102	96	124	101
5	244	191	294	174	---	---	232	141	105	93	251	108
6	418	226	417	244	99	82	183	116	113	94	---	---
7	499	190	424	229	100	92	177	105	136	94	---	---
8	345	177	367	218	276	98	134	105	142	108	---	---
9	574	288	500	249	218	96	212	131	123	104	---	---
10	728	303	563	303	195	104	236	162	171	115	---	---
11	849	347	584	249	121	94	162	114	128	104	---	---
12	1330	431	521	193	106	92	227	111	192	114	---	---
13	1610	476	778	164	106	81	262	150	290	140	---	---
14	2980	529	---	---	107	88	344	126	194	132	---	---
15	4410	532	---	---	105	98	161	114	221	99	---	---
16	5390	566	---	---	103	94	128	118	106	92	---	---
17	6040	611	---	---	111	100	124	118	104	96	---	---
18	7690	804	---	---	117	108	125	119	107	99	---	---
19	8260	968	---	---	116	106	200	123	113	98	---	---
20	5640	484	---	---	115	104	147	119	114	99	---	---
21	6520	683	---	---	150	105	152	119	108	101	---	---
22	7060	1030	---	---	148	102	320	137	124	102	---	---
23	6420	765	---	---	169	105	287	76	142	105	---	---
24	11200	2790	---	---	168	101	114	97	196	119	---	---
25	11200	2740	---	---	245	101	101	90	252	164	---	---
26	10100	4190	---	---	239	101	110	92	273	135	---	---
27	12900	256	---	---	108	90	99	90	194	104	---	---
28	1550	225	---	---	99	92	106	95	275	118	---	---
29	2820	435	---	---	105	98	152	91	---	---	---	---
30	3250	477	---	---	119	103	226	108	---	---	---	---
31	4990	167	---	---	139	113	127	101	---	---	---	---
MONTH	12900	167	---	---	---	---	344	76	290	87	---	---

[illegible]

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300009 MANATEE RIVER AT DEVIL'S ELBOW NEAR FT. HAMER, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD OCTOBER 1997 TO MARCH 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	28.7	26.6	24.5	22.8	---	---	16.6	14.4	17.5	15.5	22.1	20.3
2	28.7	26.1	24.5	22.9	---	---	16.9	14.7	18.0	16.9	20.9	19.3
3	28.2	25.7	23.7	21.8	---	---	18.1	15.8	18.4	17.5	20.1	18.7
4	28.7	26.3	23.5	21.8	---	---	20.0	17.5	18.1	17.2	20.3	17.8
5	29.5	26.2	23.6	21.5	---	---	21.1	19.4	17.5	16.3	20.0	18.4
6	29.2	27.1	23.7	21.4	19.6	18.4	21.0	18.7	16.6	15.5	---	---
7	29.2	26.7	23.3	21.8	18.7	17.4	21.4	20.0	16.3	15.2	---	---
8	28.7	26.7	22.1	21.0	17.8	16.0	21.0	20.0	16.6	15.0	---	---
9	28.7	26.6	21.1	19.8	19.7	16.6	20.9	20.0	17.2	14.7	---	---
10	28.7	26.6	21.0	19.7	20.8	19.4	20.3	18.7	17.5	14.7	---	---
11	28.2	26.6	21.4	20.0	20.7	19.7	20.0	17.8	18.1	15.8	---	---
12	28.2	26.2	21.9	20.0	20.4	20.0	20.0	17.8	20.0	17.5	---	---
13	27.7	26.2	22.1	21.6	20.0	19.8	20.0	18.1	19.0	17.5	---	---
14	27.7	26.2	---	---	20.0	18.7	20.0	18.4	18.4	16.6	---	---
15	27.2	25.8	---	---	18.7	17.8	20.0	19.0	17.8	16.3	---	---
16	26.9	25.7	---	---	17.8	16.9	20.0	18.7	17.8	16.7	---	---
17	26.9	25.7	---	---	17.8	16.3	20.0	18.1	18.7	17.8	---	---
18	26.7	24.9	---	---	17.5	15.6	19.4	17.5	19.9	18.4	---	---
19	25.4	24.1	---	---	17.5	15.5	19.0	18.1	21.4	18.7	---	---
20	25.0	22.9	---	---	17.8	15.8	19.0	17.5	21.4	20.0	---	---
21	25.0	22.9	---	---	18.4	16.9	19.1	18.1	21.4	19.3	---	---
22	25.0	22.9	---	---	19.7	18.0	20.3	18.7	22.1	20.0	---	---
23	25.0	23.3	---	---	20.0	18.7	20.0	19.0	22.1	21.0	---	---
24	25.0	23.6	---	---	20.4	19.7	19.4	18.7	21.0	19.3	---	---
25	26.3	24.4	---	---	21.4	20.0	18.7	17.8	21.0	18.7	---	---
26	26.7	24.9	---	---	21.2	19.7	17.8	17.3	21.6	19.0	---	---
27	26.7	23.7	---	---	21.0	19.3	18.7	17.6	21.1	19.7	---	---
28	24.5	22.8	---	---	19.3	18.4	18.4	16.9	22.2	20.3	---	---
29	23.3	21.8	---	---	18.6	17.2	17.5	15.6	---	---	---	---
30	22.9	21.8	---	---	17.5	16.6	18.1	16.1	---	---	---	---
31	23.3	22.1	---	---	17.8	16.3	17.8	15.8	---	---	---	---
MONTH	29.5	21.8	---	---	---	---	21.4	14.4	22.2	14.7	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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02300021 MANATEE RIVER AT FORT HAMER, FL

LOCATION.--Lat 27°31'05", long 82°25'42", in SW 1/4 sec.17, T.34 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on left bank, on private dock on Upper Manatee River Road, 0.5 mi upstream from Fort Hamer, and 15 mi upstream from mouth.

DRAINAGE AREA.--216 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--March 1997 to September 1998 (gage heights only), discontinued.

GAGE.--Water-stage recorder. Datum of gage is 7.25 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, 10.93 ft, Mar. 20, 1998; minimum 5.88 ft, Mar. 12, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.93 ft, Mar. 20; minimum 5.88 ft, Mar. 12.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	8.99	7.14	10.08	7.62	9.83	6.89	7.71	6.59	8.80	6.67	9.35	7.21
2	9.22	7.25	10.26	7.92	8.81	6.28	8.03	6.59	9.26	6.93	9.08	7.01
3	8.80	6.74	9.11	6.81	8.79	6.17	8.17	6.60	10.22	8.11	8.92	6.89
4	8.90	6.88	8.90	6.44	9.13	7.04	8.24	6.60	9.97	9.18	8.67	6.81
5	8.91	6.73	8.75	6.45	8.96	6.58	8.47	6.82	9.31	7.35	9.01	6.61
6	8.63	6.53	8.59	6.65	8.10	6.34	8.66	6.76	8.88	6.53	8.97	6.77
7	8.58	6.49	8.85	7.55	7.98	6.43	9.11	6.58	9.15	7.11	9.40	6.68
8	8.67	6.64	8.54	6.98	8.69	6.94	9.10	7.34	9.14	6.48	9.22	7.01
9	8.93	6.61	8.79	6.96	8.78	7.11	8.83	6.73	8.90	6.36	9.42	8.00
10	8.81	6.49	8.92	7.26	9.06	6.86	8.64	6.61	8.86	6.32	9.03	6.59
11	8.71	6.58	9.05	6.99	9.08	6.75	8.62	6.59	9.24	6.77	8.21	6.07
12	9.08	6.91	9.43	6.84	9.09	6.67	8.81	6.64	9.39	6.86	7.97	5.88
13	8.93	7.08	10.27	7.28	9.73	7.93	---	---	9.00	6.77	8.05	6.25
14	9.07	7.12	10.51	9.88	9.75	8.83	---	---	8.65	6.52	8.09	6.09
15	9.17	7.00	10.41	8.27	9.56	7.94	---	---	8.50	6.59	8.06	6.28
16	9.15	6.83	9.10	7.11	8.84	6.99	---	---	9.71	7.21	8.45	6.56
17	9.18	6.83	8.66	6.16	8.51	6.64	---	---	9.91	8.38	9.17	6.79
18	9.50	6.93	8.60	6.44	8.64	6.58	8.35	6.68	8.94	7.79	9.22	6.86
19	9.61	7.31	8.80	6.44	8.39	6.57	8.83	7.26	8.77	7.25	9.37	7.11
20	8.84	6.56	8.28	6.49	8.30	6.62	8.65	6.89	8.63	7.65	10.93	9.00
21	8.99	6.85	8.59	6.77	8.60	7.27	8.51	6.94	8.39	6.66	10.59	9.11
22	9.07	7.26	8.57	7.01	8.73	7.54	9.08	6.90	9.58	6.36	9.11	8.14
23	8.88	7.08	8.27	6.91	8.39	7.23	9.95	6.91	9.62	7.34	8.61	6.96
24	9.37	7.84	8.23	6.52	8.97	7.20	9.89	8.94	9.35	6.67	8.62	6.42
25	9.37	7.75	8.36	6.19	9.04	7.06	9.43	7.69	8.59	6.23	8.60	6.31
26	9.38	8.12	8.77	6.62	9.13	6.86	9.53	6.84	9.01	6.40	8.61	6.30
27	9.98	8.04	8.77	6.52	9.70	7.83	9.57	7.35	9.72	7.22	8.70	6.48
28	9.12	6.97	9.11	6.58	9.45	7.62	9.69	6.89	9.58	7.08	9.06	6.63
29	8.62	6.90	9.18	6.57	9.39	7.50	9.07	6.59	---	---	8.92	6.43
30	9.01	6.70	9.55	6.76	9.91	7.14	9.17	6.67	---	---	8.93	6.47
31	9.60	7.05	---	---	8.90	6.54	9.18	6.79	---	---	9.40	6.43
MONTH	9.98	6.49	10.51	6.16	9.91	6.17	---	---	10.22	6.23	10.93	5.88

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300021 MANATEE RIVER AT FORT HAMER, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	9.21	6.70	9.24	7.04	8.72	6.87	8.67	7.24	8.87	7.18	9.17	7.19
2	8.98	6.64	8.83	6.65	8.85	7.34	8.59	7.22	8.87	7.04	9.57	7.69
3	8.91	6.53	8.37	6.49	8.71	7.27	8.48	6.90	9.02	6.96	10.73	8.05
4	8.96	6.93	8.61	6.76	8.90	7.30	8.64	6.99	9.04	6.69	9.51	6.87
5	8.51	6.78	8.69	7.18	8.96	7.03	8.80	6.70	9.31	6.77	9.40	6.74
6	8.24	6.40	8.63	7.06	9.26	7.15	9.06	6.68	9.40	6.67	9.57	6.94
7	8.83	6.60	8.93	7.16	9.15	6.88	9.38	6.68	9.47	6.66	9.67	7.17
8	8.84	6.89	9.45	7.60	8.77	6.48	9.25	6.48	9.60	6.85	9.69	7.39
9	9.22	7.45	9.33	7.06	9.19	6.63	9.38	6.60	9.31	6.66	9.57	7.42
10	8.78	7.19	9.61	7.39	9.31	6.56	9.69	6.53	9.29	6.66	9.30	7.10
11	8.42	6.32	9.32	6.82	9.43	6.53	9.60	6.77	9.23	6.94	9.22	6.95
12	8.25	6.45	9.23	6.66	9.32	6.60	9.34	6.77	8.91	7.16	9.18	7.01
13	8.70	6.62	9.16	6.61	9.17	6.61	9.29	6.64	8.72	7.05	9.20	7.06
14	9.13	6.78	9.22	6.69	9.32	6.76	9.11	6.88	8.82	6.89	9.20	7.06
15	9.23	6.82	9.21	6.67	9.19	6.75	8.83	6.92	8.85	6.81	9.13	6.97
16	9.18	6.82	9.35	6.59	9.12	6.87	8.72	7.10	8.79	6.73	---	---
17	9.08	6.92	9.41	6.70	8.81	7.05	8.82	7.12	8.97	6.74	---	---
18	9.06	6.75	9.14	6.92	8.70	7.14	8.95	6.87	9.03	6.83	9.86	8.32
19	9.11	6.71	8.88	7.02	8.92	7.02	8.93	6.49	9.13	6.72	10.33	8.55
20	8.66	6.88	8.68	6.63	9.04	6.74	9.16	6.56	9.33	6.54	10.01	8.81
21	8.81	6.59	8.75	6.74	9.13	6.51	9.22	6.59	9.07	6.66	9.99	8.75
22	8.68	6.88	8.91	6.93	9.13	6.43	9.38	6.59	9.35	7.01	9.53	8.06
23	8.72	7.06	9.32	6.93	9.30	6.56	9.59	6.75	9.26	7.09	9.48	7.77
24	8.60	6.64	9.35	6.72	9.42	6.52	9.41	6.69	9.30	7.12	9.28	7.39
25	8.73	6.47	9.49	6.71	9.31	6.44	9.34	6.76	9.32	7.30	8.69	6.62
26	9.15	6.60	9.65	6.78	9.31	6.53	9.33	6.76	9.06	7.52	10.40	6.98
27	9.33	6.62	9.50	6.61	9.17	6.62	9.09	6.82	9.17	7.53	9.52	7.62
28	9.44	6.44	9.59	6.62	9.05	6.63	8.98	7.03	8.98	7.44	9.15	7.47
29	9.19	6.39	9.39	6.59	8.74	6.76	8.70	7.17	9.05	7.34	9.23	7.53
30	9.51	6.46	9.12	6.66	8.60	6.91	8.82	7.38	9.04	7.28	9.55	8.05
31	---	---	8.86	6.52	---	---	8.93	7.57	9.34	7.19	---	---
MONTH	9.51	6.32	9.65	6.49	9.43	6.43	9.69	6.48	9.60	6.54	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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02300021 MANATEE RIVER AT FORT HAMER, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1997 to September 1998 (discontinued).

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, 35,500 microsiemens, Apr. 11, 1997, bottom probe maximum, 36,100 microsiemens, Apr. 11, 1997; top probe minimum, 87 microsiemens, Jan. 23, 1998; bottom probe minimum, 87 microsiemens, Jan. 23, 1998.

TEMPERATURE.--Top probe maximum, 35.0°C, June 18, 1998; bottom probe maximum, 34.9°C, July 2, 1998; top probe minimum, 13.0°C, Jan. 1, 1998; bottom probe minimum, 12.4°C, Jan. 1, 1998.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 34,100 microsiemens, July 10, 11, bottom probe maximum, 35,200 microsiemens, July 10; top probe minimum, 87 microsiemens, Jan. 23; bottom probe minimum, 87 microsiemens, Jan. 23.

TEMPERATURE.--Top probe maximum, 35.0°C, June 18; bottom probe maximum, 34.9°C, July 2; top probe minimum, 13.0°C, Jan. 1; bottom probe minimum, 12.4°C, Jan. 1.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX OCTOBER	MIN OCTOBER	MAX NOVEMBER	MIN NOVEMBER	MAX DECEMBER	MIN DECEMBER	MAX JANUARY	MIN JANUARY	MAX FEBRUARY	MIN FEBRUARY	MAX MARCH	MIN MARCH
1	368	242	1400	361	14100	888	312	233	316	216	426	248
2	435	314	1440	222	3960	501	397	245	301	174	289	238
3	574	345	377	252	5030	817	363	234	206	172	343	277
4	778	462	388	273	9540	212	412	279	215	173	327	234
5	775	416	466	300	267	212	494	356	206	135	460	263
6	870	428	619	367	273	182	525	287	256	181	432	326
7	1160	601	729	468	272	207	512	324	233	169	1580	285
8	1190	504	760	474	401	258	431	196	290	223	1310	364
9	2780	664	1010	529	449	267	288	242	292	232	1040	189
10	3740	786	1880	622	719	296	319	271	359	266	260	183
11	4650	1010	2400	679	707	265	318	251	460	257	247	159
12	7700	1570	5000	494	477	244	418	245	611	295	250	165
13	10400	2340	6400	176	288	118	847	327	635	354	312	243
14	11700	3270	205	152	143	119	954	377	536	345	372	282
15	13900	3870	152	122	151	129	834	279	459	227	479	347
16	15500	4490	169	120	190	129	651	267	233	129	1210	398
17	16500	5340	261	148	233	173	303	256	152	124	3850	297
18	19300	6350	331	223	267	199	304	243	170	135	5620	419
19	19600	7390	312	241	297	220	379	238	185	158	935	109
20	14200	4380	356	202	295	207	384	297	208	158	125	106
21	16700	5050	365	231	288	208	333	257	194	151	122	96
22	17100	7530	389	172	315	275	2920	299	201	164	118	94
23	16600	6290	361	275	320	253	890	87	210	166	146	112
24	19400	10900	454	243	390	304	128	88	251	186	216	141
25	19200	10600	1990	344	718	272	133	118	355	233	235	173
26	20600	12800	3490	1130	721	239	155	123	466	300	208	175
27	23300	9640	3470	390	314	127	176	118	669	289	233	175
28	14500	2860	8330	372	141	128	230	144	790	297	432	208
29	11100	3760	9990	663	181	128	236	190	---	---	506	280
30	14200	2970	12400	1150	219	171	276	208	---	---	479	252
31	16400	686	---	---	254	181	305	231	---	---	2150	229
MONTH	23300	242	12400	120	14100	118	2920	87	790	124	5620	94

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300021 MANATEE RIVER AT FORT HAMER, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	2000	322	20000	16700	19900	7410	27200	20100	14700	6960	11500	3560
2	2000	386	18600	8850	20900	11200	27200	20200	15900	7100	14900	5690
3	2100	429	14800	7330	20100	10500	27000	20200	17600	6890	21100	8870
4	2470	506	16600	7280	21800	12700	28100	21700	18700	6630	---	---
5	1730	524	16300	10300	21600	11100	28600	16900	22800	8940	---	---
6	1400	490	16300	8570	24900	13400	29500	17500	24000	8620	---	---
7	3970	531	17700	10300	24000	12900	31800	18100	18900	2490	---	---
8	4550	702	21600	11800	21100	11100	31800	18500	16300	886	13400	1290
9	7080	1220	20700	10800	24000	9060	32800	19200	1450	438	3850	401
10	5150	1110	22800	12000	23300	9640	34100	18600	3780	341	916	234
11	3590	646	21600	10400	25700	10000	34100	19800	6480	604	1170	440
12	3700	749	21800	10400	25400	10500	32400	19000	4670	708	1290	478
13	6680	1070	21900	10500	24400	11100	31700	17600	4670	692	---	---
14	9740	1430	---	---	26200	12100	29800	11000	6420	1100	2490	500
15	11300	1900	---	---	25900	12700	25300	6430	8220	1450	---	---
16	12100	2180	---	---	25500	13600	18500	4110	9060	1820	8250	1280
17	11200	2670	---	---	24100	14700	12000	3430	9930	1860	12700	1780
18	11100	2590	24800	13900	24000	15600	13700	2870	7210	984	12700	2540
19	12500	3060	22800	14000	25000	16600	13300	2610	3090	459	4850	193
20	9540	3840	---	---	26700	16900	13400	2750	1910	371	199	182
21	10600	2930	---	---	27500	17100	---	---	3350	394	195	164
22	10000	3490	---	---	28700	15400	17100	2220	5080	477	206	162
23	10300	3550	26800	16200	29300	16500	15100	1080	2290	400	199	142
24	9920	3090	27500	15500	29600	16300	7960	742	4230	406	250	159
25	---	---	28200	16300	29600	15800	13000	799	7760	562	288	149
26	---	---	29800	16700	30400	15900	14800	1300	5960	694	223	150
27	16400	5100	29100	15900	29600	17800	15000	1260	6240	743	217	156
28	18500	5740	29800	15900	29100	17600	14400	2500	6550	1230	263	189
29	17700	6430	28000	14600	27300	18100	14000	4030	8470	1450	257	203
30	20900	6940	22500	6350	27200	18600	14800	5450	8480	1930	263	210
31	---	---	20300	4970	---	---	15600	7920	12600	2860	---	---
MONTH	---	---	---	---	30400	7410	---	---	24000	341	---	---

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN**

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02300021 MANATEE RIVER AT FORT HAMER, FL--Continued

**SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)**

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	368	241	1630	366	14100	875	314	233	315	228	432	253
2	436	313	1450	224	3940	486	421	247	300	184	290	238
3	568	341	376	252	5010	648	370	234	208	175	344	276
4	772	455	384	273	9510	204	412	283	216	176	329	239
5	768	414	462	300	267	207	492	356	207	147	458	262
6	862	423	614	365	274	177	527	288	258	181	423	337
7	1150	597	723	460	268	205	508	324	236	172	1590	375
8	1180	499	751	471	409	254	430	196	292	224	1590	448
9	2770	656	1000	523	433	262	292	244	290	233	1090	194
10	3710	778	1890	619	730	295	320	273	363	267	296	191
11	4960	972	2350	673	716	264	319	254	461	257	258	161
12	8850	1550	4960	491	475	243	414	246	612	293	259	169
13	10300	2320	6420	175	288	118	851	329	637	354	317	257
14	11600	3260	203	150	146	119	960	380	536	346	378	317
15	14200	3850	150	120	151	132	833	280	460	227	450	378
16	15500	4450	167	118	190	129	711	268	233	129	1210	440
17	16500	5290	259	146	233	173	304	256	153	123	3720	455
18	19300	6300	334	221	267	199	306	244	170	134	5470	731
19	19900	7350	334	245	296	220	376	240	185	157	2590	502
20	14400	4390	353	202	297	206	383	300	208	158	502	141
21	16700	5030	359	230	287	211	334	258	195	152	150	137
22	17900	7490	380	170	314	275	2900	300	204	165	163	146
23	16800	6480	356	275	321	253	896	87	214	170	177	163
24	20000	11200	455	243	391	303	159	88	251	187	178	164
25	19200	10500	1990	341	730	273	133	118	352	232	191	168
26	20700	12700	3540	503	730	231	157	124	464	300	219	190
27	23500	10900	3430	376	315	128	177	119	674	289	231	215
28	14600	2840	8280	365	143	127	229	145	796	293	247	231
29	11000	3730	9960	654	183	128	275	193	---	---	272	245
30	14500	3090	12400	1130	219	171	275	210	---	---	293	272
31	17100	679	---	---	254	183	303	232	---	---	2220	271
MONTH	23500	241	12400	118	14100	118	2900	87	796	123	5470	137

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	2320	324	19100	8540	20200	7490	28100	20000	18700	6800	14300	3420
2	2070	388	16200	7150	21000	11200	27900	20800	19600	6610	16400	4720
3	2220	429	14700	6560	20300	10300	27600	20700	20600	6920	22700	7420
4	2530	506	16900	7270	21700	12100	28700	22300	21600	7060	16900	4650
5	1760	527	16900	10300	22000	11700	29600	17700	24000	8760	16800	4390
6	1390	493	16500	8630	24700	12100	31100	18200	25300	7750	19300	5260
7	4170	531	18100	10400	23800	11900	33100	18100	22100	2140	20000	4600
8	4820	704	21800	11900	21600	9720	32500	19000	18500	897	14100	1300
9	7220	1220	21000	10800	24600	8500	33800	20000	1720	441	4320	411
10	5180	1100	23100	12200	24000	8880	35200	19000	4330	579	925	409
11	3590	600	22000	10600	25400	9720	34900	20300	7660	612	1210	444
12	4050	733	22100	10200	25200	9740	33000	19200	5250	722	1290	478
13	6620	1070	22500	10100	24900	11000	33000	18500	4790	704	924	418
14	9990	1400	23300	10700	26200	12100	30600	11500	7510	1060	3720	505
15	11400	1890	23700	11100	26200	12800	27000	7310	9210	1470	5520	628
16	12000	2150	25400	11800	25600	13600	22000	4410	11100	1850	9680	1270
17	11300	2560	26100	12700	24400	14900	18900	3640	11500	1890	13500	1780
18	11700	2590	24600	14100	24300	15800	19700	3040	9620	1010	13500	2510
19	12600	3050	22900	13700	25500	16900	18700	2780	3970	473	4470	198
20	9900	3840	22500	12700	26900	16900	21000	2850	4230	392	203	186
21	10800	2580	23400	13500	27700	16900	21100	3680	4910	401	202	169
22	10200	3500	24400	14500	28500	16100	20800	2460	6470	495	217	167
23	10600	3590	27100	15000	29600	17300	19300	1180	3870	410	204	144
24	9970	2960	28100	16400	30700	16600	14100	858	6230	417	253	160
25	11200	3170	29000	16800	30200	16200	16300	915	8620	575	292	149
26	15300	3850	30100	17200	30700	16200	16300	1410	6640	711	226	151
27	17100	4970	29800	16500	29900	17900	16700	1410	6900	770	224	159
28	18400	5510	30400	16500	29500	17700	15900	2740	7170	1290	270	189
29	17600	5280	28600	14700	28000	18800	15200	4590	9630	1490	262	203
30	21000	6160	24700	6600	27500	19100	16300	6240	10800	1860	266	207
31	---	---	20700	5150	---	---	17300	6670	13200	2850	---	---
MONTH	21000	324	30400	5150	30700	7490	35200	858	25300	392	22700	144

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300021 MANATEE RIVER AT FORT HAMER, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	29.8	26.4	24.3	22.7	21.7	20.2	15.7	13.0	18.0	16.0	22.8	21.6
2	28.8	26.4	25.1	23.8	20.9	19.2	16.9	14.1	18.5	17.1	21.6	19.7
3	28.7	25.9	23.8	22.0	21.3	19.6	18.3	15.5	19.3	18.0	20.1	19.2
4	28.7	26.3	22.7	21.2	21.6	20.2	20.2	17.4	18.9	17.4	20.6	18.3
5	28.7	26.8	22.4	20.9	20.6	18.9	21.3	19.6	17.7	16.2	20.6	18.3
6	29.2	26.8	23.9	20.9	18.9	17.4	22.4	20.9	17.1	15.4	23.9	18.9
7	29.2	26.8	23.1	21.6	18.0	16.0	22.7	21.6	16.0	14.7	22.7	20.5
8	29.2	27.3	21.6	20.9	16.9	15.7	22.3	20.6	15.7	14.1	23.5	21.3
9	28.9	27.3	20.9	19.9	19.0	15.5	22.0	20.9	16.8	14.7	23.1	22.0
10	28.7	27.3	21.8	19.9	20.6	18.3	20.9	18.6	17.5	14.9	22.0	19.6
11	28.0	26.8	23.1	20.2	21.6	20.2	19.9	17.1	18.3	16.4	20.2	17.4
12	27.8	25.9	22.4	20.2	21.6	20.9	19.3	17.1	19.9	18.0	19.2	16.0
13	28.0	25.9	22.3	22.0	20.9	19.9	19.9	17.7	19.2	17.4	18.0	15.7
14	28.3	25.8	22.4	22.0	19.9	18.6	19.9	18.3	18.6	16.8	18.6	16.0
15	27.8	25.9	22.4	22.0	18.6	17.4	19.9	18.9	18.6	16.8	19.9	16.8
16	27.8	25.5	22.4	20.6	17.7	16.3	19.9	19.2	19.0	17.4	20.3	18.3
17	27.3	25.5	20.6	18.6	17.2	15.4	19.3	18.3	20.6	18.6	21.3	19.6
18	27.3	25.5	19.6	17.4	16.9	15.2	19.3	18.0	21.0	19.6	22.0	20.6
19	25.5	23.8	20.3	18.6	17.4	15.0	19.6	18.3	21.6	19.9	22.0	19.9
20	25.5	22.3	21.3	19.6	17.4	16.0	19.3	17.5	22.4	20.9	20.0	19.6
21	25.5	22.3	22.4	20.2	18.3	17.1	19.6	18.3	22.0	19.2	19.9	18.9
22	25.5	21.6	24.7	22.0	20.2	17.7	20.6	18.6	20.9	19.6	19.6	18.3
23	25.5	22.8	23.5	22.7	21.2	19.6	19.9	19.6	21.6	20.6	19.9	17.4
24	25.5	23.8	22.7	20.6	22.0	20.6	19.9	18.9	20.9	18.9	21.0	17.3
25	27.1	24.6	20.6	18.6	22.3	20.9	18.9	17.7	20.9	17.9	21.7	18.0
26	27.3	25.1	20.9	18.9	22.7	21.6	17.7	16.6	20.9	18.3	22.7	19.3
27	26.8	25.5	20.9	18.6	22.0	19.6	18.4	17.4	21.3	19.9	23.5	20.6
28	25.5	22.5	21.3	19.6	19.6	18.0	18.3	16.8	22.3	20.9	24.3	21.6
29	23.9	21.9	22.0	20.8	18.3	16.3	17.7	15.9	---	---	26.0	23.1
30	23.5	21.3	22.0	21.3	16.9	15.4	17.6	15.7	---	---	26.4	23.8
31	23.1	22.3	---	---	16.9	14.9	18.3	16.3	---	---	26.4	24.3
MONTH	29.8	21.3	25.1	17.4	22.7	14.9	22.7	13.0	22.4	14.1	26.4	15.7
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	26.8	25.5	25.5	24.7	32.0	28.7	34.4	31.9	33.7	30.8	33.7	31.3
2	27.3	25.5	26.0	24.2	32.5	29.7	35.0	32.5	33.7	30.2	31.9	30.8
3	28.6	25.9	27.3	24.6	33.1	30.2	34.3	32.5	33.7	31.3	31.2	29.7
4	27.8	26.4	26.4	25.1	34.3	30.8	34.3	31.9	32.5	30.3	---	---
5	26.9	24.6	26.9	24.2	34.4	31.3	33.7	32.5	32.6	29.7	---	---
6	27.8	23.8	29.3	25.1	34.4	32.0	33.1	31.9	32.5	29.7	---	---
7	26.4	24.2	29.3	25.9	34.4	32.0	33.1	31.3	33.1	28.8	30.3	27.3
8	26.5	25.1	29.3	27.3	33.7	31.3	33.1	30.8	31.9	28.7	30.3	27.7
9	26.0	25.5	29.8	27.3	31.9	29.7	32.1	30.8	31.9	29.2	28.8	27.3
10	25.5	24.2	29.3	28.2	33.3	29.7	31.9	29.7	32.2	29.2	29.6	26.8
11	24.6	22.3	29.2	27.3	33.1	30.3	31.4	29.7	33.1	30.3	29.2	27.3
12	25.1	22.3	29.3	26.8	33.7	30.8	31.7	30.2	33.7	31.3	29.2	27.3
13	24.7	22.3	29.8	27.3	33.1	30.8	31.9	29.7	34.4	31.9	---	---
14	24.3	22.3	---	---	32.5	31.3	31.6	29.7	35.0	32.1	29.8	28.2
15	24.7	22.7	---	---	33.1	31.3	30.2	28.0	33.7	32.5	---	---
16	25.5	23.3	---	---	33.4	31.3	30.6	27.3	34.3	31.9	29.2	27.7
17	26.9	24.2	---	---	34.4	31.3	32.0	28.2	34.4	31.9	28.7	27.7
18	27.3	25.5	30.3	27.7	35.0	31.9	33.1	29.7	35.0	31.3	29.2	27.3
19	27.3	25.5	30.8	28.2	34.4	32.5	33.7	30.2	32.8	29.2	27.8	26.0
20	27.3	25.9	---	---	34.4	31.9	33.7	29.2	30.8	28.7	27.4	26.4
21	26.9	25.5	---	---	34.4	32.5	---	---	30.3	27.3	28.4	27.3
22	26.4	24.6	---	---	34.4	31.3	31.4	28.7	30.3	27.7	28.7	27.3
23	25.5	23.8	31.4	29.2	34.4	31.3	32.5	28.5	31.4	28.7	28.7	26.4
24	25.1	22.7	31.4	29.1	33.5	31.3	34.4	29.2	32.5	29.7	31.4	27.3
25	---	---	31.4	28.7	31.9	30.8	34.4	30.2	31.9	29.7	29.2	25.9
26	---	---	30.3	28.2	31.9	30.2	33.1	30.8	32.5	30.2	27.3	25.9
27	26.0	23.5	29.7	28.7	31.4	29.7	33.7	31.0	33.1	30.8	28.3	26.4
28	26.4	24.2	28.7	27.7	32.0	29.7	33.8	31.3	34.3	31.3	29.8	26.6
29	26.4	24.7	29.2	26.8	33.1	30.8	34.4	30.8	33.7	30.8	29.2	27.3
30	25.5	25.1	29.7	26.8	34.4	31.3	34.4	32.5	34.3	31.7	29.2	27.7
31	---	---	30.3	26.4	---	---	33.9	31.9	33.7	31.9	---	---
MONTH	---	---	---	---	35.0	28.7	---	---	35.0	27.3	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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02300021 MANATEE RIVER AT FORT HAMER, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	28.9	26.1	24.0	22.4	21.7	19.9	15.4	12.4	17.7	15.7	22.8	21.3
2	28.4	26.1	24.8	23.5	20.6	18.9	16.6	14.1	18.3	16.8	21.5	19.6
3	28.4	25.8	23.5	22.0	21.0	19.3	18.0	15.2	19.0	17.7	20.0	18.9
4	28.6	26.1	22.6	20.9	21.3	19.9	20.0	17.4	18.6	17.1	20.3	18.3
5	28.4	26.5	22.1	20.6	20.6	18.6	21.1	19.6	17.7	16.0	20.3	18.1
6	28.9	26.9	24.0	20.6	18.6	17.1	22.1	20.6	16.8	15.1	22.9	18.6
7	28.9	26.5	22.8	21.3	17.7	15.7	22.4	21.3	15.7	14.6	22.4	20.3
8	28.9	27.0	21.4	20.6	16.8	15.7	22.1	20.3	15.4	13.8	23.0	21.0
9	28.8	27.0	20.6	19.6	18.7	15.4	21.7	20.6	16.5	14.4	22.8	21.7
10	28.4	27.0	21.6	19.6	20.3	18.0	20.6	18.6	17.4	14.6	21.7	19.3
11	28.0	27.0	22.8	19.9	21.5	19.9	19.6	17.1	18.0	16.2	19.9	17.1
12	27.5	25.6	22.1	19.9	21.5	20.6	19.0	16.8	19.6	17.7	18.9	15.7
13	27.9	25.6	22.1	21.7	20.6	19.6	19.6	17.4	19.0	17.3	17.9	15.7
14	28.0	25.6	22.4	21.7	19.6	18.3	19.6	18.3	18.3	16.8	18.3	15.7
15	27.5	25.6	22.1	21.7	18.4	17.1	19.6	18.9	18.3	16.5	19.6	16.8
16	27.5	25.2	22.1	20.6	17.4	16.0	19.6	18.9	18.7	17.1	20.3	18.0
17	27.0	25.2	20.6	18.3	16.9	15.4	19.3	18.0	20.3	18.6	21.3	19.3
18	27.0	25.2	19.3	17.1	16.6	14.9	19.0	17.7	20.9	19.4	21.7	20.6
19	25.2	23.9	20.2	18.3	17.1	14.9	19.3	18.0	21.3	19.6	21.7	19.6
20	25.2	22.0	21.0	19.3	17.2	15.7	19.0	17.4	22.1	20.6	20.0	19.3
21	25.2	22.3	22.4	19.9	18.0	16.8	19.3	18.0	21.7	18.9	19.6	18.6
22	25.2	22.0	24.4	22.0	19.7	17.6	20.3	18.3	21.0	19.4	19.3	18.0
23	25.6	22.8	23.2	22.4	21.0	19.6	19.6	19.3	21.3	20.3	19.6	17.1
24	25.6	23.9	22.5	20.4	21.7	20.5	19.6	18.6	20.6	18.6	20.6	17.1
25	26.6	24.4	20.4	18.3	22.0	21.0	18.6	17.4	20.6	17.7	21.7	17.7
26	27.0	25.2	20.6	18.6	22.4	21.3	17.4	16.5	20.6	18.2	22.4	19.3
27	26.5	25.2	20.6	18.6	21.7	19.6	18.3	17.1	21.1	19.7	23.2	20.3
28	25.2	22.4	21.1	19.3	19.6	17.9	18.0	16.6	22.1	20.6	24.0	21.3
29	23.7	21.6	21.7	20.6	18.3	16.0	17.4	15.7	---	---	25.7	22.8
30	23.2	21.3	21.7	21.0	16.8	15.1	17.4	15.4	---	---	26.1	23.6
31	22.8	22.0	---	---	16.6	14.9	18.0	16.0	---	---	26.9	24.0
MONTH	28.9	21.3	24.8	17.1	22.4	14.9	22.4	12.4	22.1	13.8	26.9	15.7

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	26.6	25.2	25.2	24.4	31.7	28.4	34.1	31.6	33.4	31.0	33.4	31.0
2	27.0	25.2	25.7	23.9	32.2	29.6	34.9	32.5	33.4	30.5	32.2	31.0
3	27.5	25.7	27.0	24.3	32.8	29.9	34.1	32.7	33.4	31.0	31.0	29.4
4	27.0	26.1	26.1	24.8	34.1	31.0	34.2	31.7	32.3	30.5	31.6	28.9
5	26.6	24.7	26.6	23.9	34.1	31.0	33.4	32.2	32.8	29.4	31.6	29.4
6	27.5	23.1	29.0	25.2	34.1	32.1	32.8	31.6	32.2	29.4	31.1	28.9
7	26.1	23.9	29.0	26.0	34.1	32.1	32.8	31.0	32.0	28.9	30.0	28.4
8	26.5	24.8	29.1	27.4	33.4	31.0	32.8	30.5	31.6	28.5	30.5	27.5
9	25.7	25.2	29.5	27.2	31.6	29.4	32.2	31.0	31.6	28.9	28.5	27.0
10	25.2	23.9	28.9	27.9	32.8	29.4	31.6	29.5	32.2	29.4	29.1	26.5
11	24.4	19.7	28.9	27.0	32.8	30.3	31.1	29.4	32.8	30.5	28.9	27.0
12	24.8	22.0	29.5	27.0	33.4	30.5	31.7	29.9	33.4	31.0	28.9	27.0
13	24.4	22.0	29.5	27.0	32.8	31.0	31.6	29.4	34.1	31.6	29.4	27.4
14	24.0	22.3	30.2	27.4	32.3	31.0	31.6	29.4	34.7	32.2	29.5	27.9
15	24.7	22.4	30.0	27.4	32.3	31.0	30.4	27.9	33.8	32.2	29.5	28.4
16	25.6	23.2	29.5	27.0	32.8	31.0	30.5	27.0	34.0	32.2	28.9	27.5
17	26.6	24.0	29.0	27.4	34.1	31.0	31.7	27.9	34.1	31.6	28.4	27.4
18	27.0	25.2	29.5	27.4	34.7	31.6	32.8	29.6	34.7	31.4	28.4	27.0
19	27.0	25.2	30.5	28.0	34.1	32.2	33.4	29.9	32.2	28.9	27.9	26.1
20	27.0	25.6	31.1	28.4	34.1	31.6	33.4	28.9	30.6	28.4	27.5	26.3
21	26.6	25.2	31.1	28.4	34.0	32.2	32.8	28.9	30.0	27.4	28.1	27.0
22	26.1	24.3	31.1	28.8	34.1	31.1	31.3	28.4	30.0	27.4	28.4	27.0
23	25.2	23.5	31.1	28.9	34.1	31.1	32.2	28.4	31.1	28.4	28.4	26.4
24	25.1	22.4	31.1	28.9	33.4	31.0	34.1	28.9	32.2	29.4	31.1	27.0
25	25.2	22.0	31.1	28.9	31.9	30.5	34.1	29.9	31.6	29.4	28.9	25.6
26	24.9	22.4	30.0	28.4	31.6	30.5	32.8	30.5	32.8	30.1	27.0	25.6
27	27.2	22.5	29.5	28.4	31.1	29.4	33.4	31.0	32.9	31.0	27.9	26.1
28	26.1	24.0	28.4	27.4	31.7	29.5	34.0	31.0	34.0	31.0	28.9	26.3
29	26.1	24.4	28.8	26.6	32.8	30.5	34.1	31.0	33.4	31.0	28.9	27.0
30	25.6	24.8	29.4	26.9	34.1	31.4	34.1	32.2	34.0	31.6	28.4	27.5
31	---	---	30.0	26.1	---	---	33.4	31.6	33.4	31.6	---	---
MONTH	27.5	19.7	31.1	23.9	34.7	28.4	34.9	27.0	34.7	27.4	33.4	25.6

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	64	14	46	22	14	8.2	.53	.27	.25	20	9.2
2	63	220	14	33	30	24	6.9	.55	.25	.25	11	7.6
3	43	190	13	26	193	20	6.5	.51	.24	.23	7.5	6.7
4	31	79	53	20	146	15	6.0	.48	.24	.22	5.8	6.1
5	23	47	108	17	76	11	5.1	.45	.23	.34	4.7	5.4
6	17	32	62	14	49	8.8	4.6	.43	.22	.28	4.1	5.0
7	13	25	39	13	57	8.0	3.9	.41	.20	.27	9.7	5.5
8	11	20	29	30	51	7.7	3.3	.38	.26	.26	10	6.5
9	8.8	16	22	69	36	49	3.0	.37	.42	.26	7.9	8.1
10	7.6	13	19	44	27	68	2.7	.35	.39	.27	6.2	9.5
11	6.5	12	17	29	21	32	2.4	.32	.63	.31	4.5	8.6
12	5.7	10	24	22	17	20	2.1	.31	.78	.34	3.6	7.8
13	4.9	532	998	17	14	15	1.9	.31	.56	.77	2.9	6.4
14	4.4	2660	1340	14	14	11	1.6	.31	.43	.50	2.5	5.4
15	4.0	e1140	492	16	17	9.4	1.4	.31	.37	20	2.1	4.7
16	3.6	e494	192	55	444	8.6	1.3	.31	.32	74	2.4	4.6
17	3.3	e253	102	67	631	7.4	1.2	.31	.28	33	18	4.6
18	e5.2	e142	65	40	442	6.4	1.1	.31	.27	17	82	5.0
19	e9.5	e78	46	27	165	e534	.99	.31	.27	11	144	279
20	e7.7	e39	36	21	104	e2490	.90	.30	.26	9.8	145	e847
21	e6.5	30	28	16	78	e931	.86	.30	.26	11	67	e638
22	5.4	24	23	13	52	e322	.84	.30	.26	26	44	e268
23	4.6	21	20	346	37	e122	.80	.29	.25	41	42	130
24	4.1	19	18	e993	28	68	.75	.28	.29	37	65	82
25	3.7	16	16	e375	21	43	.67	.28	.32	26	53	100
26	3.4	14	40	e157	17	31	.61	.28	.27	17	31	233
27	5.3	12	473	89	13	23	.55	.28	.26	12	21	162
28	15	11	639	71	11	19	.52	.46	.26	9.0	29	86
29	15	9.9	217	49	---	15	.49	.38	.26	7.0	23	58
30	12	11	106	36	---	12	.49	.34	.25	8.4	16	44
31	28	---	69	28	---	9.9	---	.29	---	26	12	---
TOTAL	474.2	6233.9	5334	2793	2813	4955.2	71.67	11.04	9.57	389.75	896.9	3043.7
MEAN	15.3	208	172	90.1	100	160	2.39	.36	.32	12.6	28.9	101
MAX	99	2660	1340	993	631	2490	8.2	.55	.78	74	145	847
MIN	3.3	9.9	13	13	11	6.4	.49	.28	.20	.22	2.1	4.6
CFSM	.59	8.05	6.67	3.49	3.89	6.20	.09	.01	.01	.49	1.12	3.93
IN.	.68	8.99	7.69	4.03	4.06	7.14	.10	.02	.01	.56	1.29	4.39

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	29.3	28.8	21.6	22.7	20.3	27.7	20.1	19.3	54.1	72.6
MAX	114	208	172	90.1	100	160	61.6	154	264	152
(WY)	1991	1998	1998	1998	1998	1998	1993	1991	1992	1991
MIN	4.68	.79	1.00	.54	.37	.35	2.39	.36	.32	12.0
(WY)	1989	1997	1997	1997	1997	1997	1998	1998	1998	1989

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1989 - 1998
ANNUAL TOTAL	22553.20	27025.93	
ANNUAL MEAN	61.8	74.0	37.9
HIGHEST ANNUAL MEAN			74.0
LOWEST ANNUAL MEAN			17.0
HIGHEST DAILY MEAN	2660	Nov 14	2930
LOWEST DAILY MEAN	.22	Apr 5	.12
ANNUAL SEVEN-DAY MINIMUM	.22	Apr 5	.21
INSTANTANEOUS PEAK FLOW		2760	Nov 14
INSTANTANEOUS PEAK STAGE		27.47	Nov 14
ANNUAL RUNOFF (CFSM)	2.39	2.87	1.47
ANNUAL RUNOFF (INCHES)	32.52	38.97	19.98
10 PERCENT EXCEEDS	131	143	83
50 PERCENT EXCEEDS	6.4	12	6.9
90 PERCENT EXCEEDS	.31	.30	1.1

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	7.3	2.2	5.8	6.1	5.1	1.8	.22	.50	.22	1.1	2.0
2	6.7	16	2.0	4.8	8.8	4.4	1.9	.21	.35	.38	1.3	2.0
3	4.7	9.0	2.0	4.2	20	3.0	1.1	.20	.30	.30	1.0	2.1
4	3.3	5.8	9.1	3.9	13	2.7	.75	.20	.27	.32	.95	2.4
5	2.3	3.4	8.3	3.9	8.4	2.5	.54	.26	.24	1.1	.87	2.7
6	1.8	2.3	4.5	3.8	7.3	2.3	.43	.30	.23	.46	.79	2.5
7	1.6	2.0	2.7	3.9	8.7	2.1	.46	.28	.22	.34	.82	2.3
8	1.5	1.9	2.1	10	6.7	1.8	.41	.23	.26	.23	.87	2.7
9	1.5	1.9	1.9	9.4	6.2	12	.45	.22	.28	.22	.94	3.4
10	1.6	1.7	1.8	6.2	5.9	6.4	.42	.21	.26	.28	1.0	3.0
11	1.5	1.6	1.7	4.7	5.4	3.8	.35	.20	.25	.51	.92	3.6
12	1.5	1.7	3.0	3.8	5.1	2.5	.31	.20	.24	1.4	.78	4.4
13	1.4	55	83	3.6	5.1	2.5	.27	.19	.23	6.5	.71	4.7
14	1.3	161	85	3.4	5.2	2.1	.37	.18	.22	2.6	.68	4.1
15	1.3	74	37	4.0	6.6	1.9	.30	.18	.22	6.0	.71	2.3
16	1.2	24	17	5.7	46	2.0	.29	.17	.23	4.8	.89	1.8
17	1.2	9.1	9.5	4.1	51	1.6	.27	.17	.25	2.3	2.9	1.8
18	1.7	5.6	6.3	3.6	32	1.2	.27	.17	.24	1.5	5.6	2.3
19	1.9	4.5	5.1	3.4	16	90	.24	.17	.24	1.2	21	55
20	1.5	3.8	4.7	3.2	15	150	.25	.16	.24	1.1	18	80
21	1.2	3.4	4.3	3.0	11	75	.35	.16	.24	1.6	7.6	56
22	1.2	3.1	3.9	2.9	7.3	25	.27	.16	.23	1.6	4.8	24
23	1.2	3.0	3.7	54	5.7	9.9	.24	.19	.23	1.2	3.9	10
24	1.2	2.8	3.5	78	4.5	5.5	.24	.19	.27	1.0	5.4	6.3
25	1.2	2.8	3.5	34	3.6	4.1	.22	.18	.28	.91	3.4	9.3
26	1.2	2.4	6.7	18	3.0	3.4	.21	.19	.27	.79	3.0	22
27	1.9	2.3	61	12	2.7	2.7	.20	.21	.25	.78	3.0	10
28	2.2	2.2	50	10	2.8	2.0	.21	.49	.24	.84	3.0	5.4
29	1.8	2.2	22	7.7	---	1.5	.21	.58	.24	.78	2.7	3.6
30	1.5	2.4	12	6.6	---	1.7	.21	.63	.23	.90	2.4	2.9
31	7.9	---	7.8	6.2	---	1.3	---	.72	---	1.2	2.2	---
TOTAL	71.9	418.2	467.3	327.8	319.1	432.0	13.54	7.82	7.75	43.36	103.23	334.6
MEAN	2.32	13.9	15.1	10.6	11.4	13.9	.45	.25	.26	1.40	3.33	11.2
MAX	9.9	161	85	78	51	150	1.9	.72	.50	6.5	21	80
MIN	1.2	1.6	1.7	2.9	2.7	1.2	.20	.16	.22	.22	.68	1.8
CFSM	.97	5.81	6.28	4.41	4.75	5.81	.19	.11	.11	.58	1.39	4.65
IN.	1.11	6.48	7.24	5.08	4.95	6.70	.21	.12	.12	.67	1.60	5.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

	MEAN	2.91	2.04	2.13	2.72	2.19	2.43	1.76	1.08	3.46	4.23	6.15	7.22
MAX	8.61	13.9	15.1	10.6	11.4	13.9	5.87	5.12	19.1	11.3	17.3	17.5	
(WY)	1991	1998	1998	1998	1998	1998	1993	1991	1992	1991	1995	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1989 - 1998
ANNUAL TOTAL	1764.11	2546.60	
ANNUAL MEAN	4.83	6.98	3.20
HIGHEST ANNUAL MEAN			6.98
LOWEST ANNUAL MEAN			1.45
HIGHEST DAILY MEAN	161	Nov 14	247
LOWEST DAILY MEAN	.22	Apr 8	.00
ANNUAL SEVEN-DAY MINIMUM	.25	Apr 5	.00
INSTANTANEOUS PEAK FLOW		180	Nov 14
INSTANTANEOUS PEAK STAGE		17.39	Nov 14
ANNUAL RUNOFF (CFSM)	2.01	2.91	1.33
ANNUAL RUNOFF (INCHES)	27.34	39.47	18.10
10 PERCENT EXCEEDS	8.1	12	6.8
50 PERCENT EXCEEDS	1.2	2.1	.68
90 PERCENT EXCEEDS	.30	.23	.16

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300035.5 COOPER CREEK AT UNIVERSITY PARKWAY NEAR SARASOTA, FL

LOCATION.--Lat 27°23'18", long 82°27'35", in SW¹/₄ 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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	18	14	e14	e29	22	20	e.02	e1.4	.00	.24	11
2	57	33	11	e13	e42	21	17	e.01	e.90	.00	.21	9.9
3	52	24	9.1	e12	e45	17	15	e.00	e.50	.00	.18	9.2
4	45	22	19	e11	39	14	14	e3.9	e.30	.00	.18	8.7
5	36	21	18	e10	36	13	12	5.7	e.16	.00	.18	8.1
6	28	19	16	e9.2	34	11	11	e3.5	e.09	.00	.17	8.4
7	22	17	16	e8.8	36	10	10	e2.0	e.06	.00	.76	10
8	17	15	16	e30	32	9.4	9.5	e1.1	e.03	.00	1.8	9.8
9	14	14	16	e23	28	13	9.1	e.60	e.02	.00	1.5	10
10	12	13	16	e18	25	11	8.2	e.36	e.01	.00	1.1	11
11	11	13	15	e15	22	9.5	7.0	e.20	e.00	.00	.80	11
12	11	12	19	e12	20	8.3	6.3	e.11	e.00	1.3	.61	11
13	11	78	74	e9.2	18	7.5	e5.0	e.06	e.00	7.8	.52	10
14	11	192	82	e7.8	16	7.1	e3.5	e.03	e.00	8.3	.49	10
15	11	175	82	e26	17	6.9	e2.7	e.02	e.00	3.8	.96	10
16	11	172	82	e21	55	6.8	e2.0	e.01	.00	2.6	1.3	9.9
17	11	145	81	e16	69	5.5	e1.4	e.00	.00	1.7	e1.9	11
18	12	113	72	e11	65	4.2	e1.0	e.00	.00	1.1	e.99	12
19	12	85	64	e8.4	64	89	e.60	e.00	.00	.54	2.3	31
20	11	67	57	e6.6	65	151	e.53	e.00	.00	1.1	3.8	57
21	11	57	49	e5.8	59	144	e.37	e.00	.00	2.0	7.0	60
22	11	49	41	e5.4	55	146	e.27	e.00	.00	3.0	10	60
23	11	42	34	e72	50	126	e.20	e.00	.00	3.4	16	61
24	11	34	29	e70	42	101	e.14	e.00	.00	2.5	18	59
25	11	27	26	e66	36	80	e.10	e.00	.00	1.7	17	58
26	11	21	31	e58	30	66	e.07	e.00	.00	1.1	17	58
27	12	17	e63	e50	25	56	e.05	e.00	.00	.70	16	54
28	13	15	e30	e45	22	47	e.04	e1.7	.00	.50	16	49
29	11	13	e25	e38	---	38	e.03	5.9	.00	.35	16	45
30	11	16	e19	e34	---	31	e.02	e3.9	.00	.48	14	39
31	18	---	e16	e30	---	25	---	e2.4	---	.31	12	---
TOTAL	588	1539	1142.1	756.2	1076	1297.2	157.12	31.52	3.47	44.28	178.99	812.0
MEAN	19.0	51.3	36.8	24.4	38.4	41.8	5.24	1.02	.12	1.43	5.77	27.1
MAX	62	192	82	72	69	151	20	5.9	1.4	8.3	18	61
MIN	11	12	9.1	5.4	16	4.2	.02	.00	.00	.00	.17	8.1
CFSM	2.03	5.50	3.95	2.61	4.12	4.49	.56	.11	.01	.15	.62	2.90
IN.	2.34	6.14	4.55	3.02	4.29	5.17	.63	.13	.01	.18	.71	3.24

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	13.8	9.24	6.00	6.82	7.24	6.79	4.97	4.27	7.76	12.8	19.0	19.4
MAX	21.1	51.3	36.8	24.4	38.4	41.8	14.9	20.1	22.0	33.0	41.8	30.3
(WY)	1991	1998	1998	1998	1998	1998	1993	1991	1996	1995	1995	1993
MIN	5.08	.092	.35	.22	.000	.005	.17	.060	.12	1.43	2.56	.93
(WY)	1997	1997	1997	1997	1997	1997	1989	1989	1998	1998	1996	1996

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1989 - 1998	
ANNUAL TOTAL	4623.21		7625.88			
ANNUAL MEAN	12.7		20.9		9.86	
HIGHEST ANNUAL MEAN					20.9	
LOWEST ANNUAL MEAN					4.18	
HIGHEST DAILY MEAN	192	Nov 14	192	Nov 14	240	Jun 26 1992
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	May 17	.00	Apr 21 1989
INSTANTANEOUS PEAK FLOW			223		258	
INSTANTANEOUS PEAK STAGE			21.01		21.01	
ANNUAL RUNOFF (CFSM)	1.36		2.24		1.06	
ANNUAL RUNOFF (INCHES)	18.43		30.41		14.35	
10 PERCENT EXCEEDS	31		59		26	
50 PERCENT EXCEEDS	3.7		11		4.3	
90 PERCENT EXCEEDS	.00		.00		.04	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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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 sub-division, 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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e14	21	e1.9	4.6	2.0	8.1	1.5	.30	.69	.02	e.19	.74
2	e9.0	30	e1.7	3.7	5.2	5.6	1.3	.28	.44	.02	e.17	.82
3	e6.2	14	1.5	3.3	16	3.3	1.2	.26	.32	.01	e.16	.83
4	e4.5	7.6	12	3.1	7.0	2.6	1.1	.27	.26	.01	e.60	1.3
5	e3.5	4.9	8.8	3.0	3.7	2.1	.95	.46	.23	.01	e2.0	1.2
6	e2.7	3.7	5.1	2.9	3.7	1.7	.79	.49	.21	.02	e1.3	.87
7	e2.1	3.3	3.5	2.9	5.8	1.6	.77	.43	.21	.01	e.80	5.8
8	e1.7	2.6	2.8	17	3.7	1.5	.74	.36	.21	.01	e.70	18
9	e1.4	1.9	2.6	11	2.7	15	.74	.35	.52	.02	e.60	7.3
10	1.2	1.6	2.6	5.7	2.2	5.8	.72	.29	.32	.02	e.52	5.4
11	1.2	1.3	2.4	3.9	1.9	3.2	.63	.28	e.13	.02	e.51	3.4
12	1.1	1.2	4.1	3.0	1.7	2.1	.54	.20	e.11	2.0	e.51	2.3
13	1.2	41	80	2.6	1.5	1.6	.49	.16	e.09	27	e1.2	1.8
14	1.0	102	61	2.3	1.5	1.3	.49	.16	e.08	20	e3.0	1.4
15	.72	e60	26	3.6	2.8	1.2	.48	.16	e.07	6.8	e3.5	1.2
16	.66	e47	13	5.4	50	1.2	.45	.15	.07	4.4	e1.4	1.0
17	.64	e25	8.5	3.1	47	1.0	.43	.14	.06	2.8	e1.2	2.0
18	3.6	e18	6.3	2.4	23	1.1	.43	.14	.06	1.9	e1.4	2.8
19	4.4	e13	4.9	2.1	11	88	.42	.13	.05	1.5	4.0	63
20	2.6	e10	4.0	1.8	11	103	.40	.13	.05	1.2	11	83
21	2.0	e7.8	3.3	1.6	7.1	57	.42	.13	.04	2.1	5.5	56
22	1.7	e6.2	3.1	1.5	5.1	22	.39	.12	.05	4.4	3.3	23
23	1.5	e5.0	2.8	52	4.4	11	.34	.12	.05	2.7	2.7	12
24	1.4	e4.2	2.6	54	3.1	7.0	.30	.12	.05	1.6	2.4	7.9
25	1.4	e3.6	2.7	21	2.6	4.9	.28	.11	.18	1.0	2.1	8.7
26	1.3	e3.2	8.1	9.2	2.2	3.4	.30	.11	.14	.63	1.5	16
27	4.6	e2.8	64	7.0	1.7	2.8	.30	.12	.08	.38	1.1	9.1
28	7.5	e2.5	41	5.3	2.2	2.2	.28	.13	.05	.27	1.4	6.0
29	4.0	e2.2	16	3.5	---	1.8	.28	.20	.04	.22	1.2	4.2
30	3.0	e2.0	9.6	2.9	---	1.7	.30	2.2	.03	.22	.94	3.3
31	21	---	6.6	2.4	---	1.6	---	2.4	---	e.20	.78	---
TOTAL	112.82	448.6	412.5	247.8	231.8	366.4	17.76	10.90	4.89	81.49	57.68	350.36
MEAN	3.64	15.0	13.3	7.99	8.28	11.8	.59	.35	.16	2.63	1.86	11.7
MAX	21	102	80	54	50	103	1.5	2.4	.69	27	11	83
MIN	.64	1.2	1.5	1.5	1.5	1.0	.28	.11	.03	.01	.16	.74
CFSM	3.87	15.9	14.2	8.50	8.81	12.6	.63	.37	.17	2.80	1.98	12.4
IN.	4.46	17.75	16.32	9.81	9.17	14.50	.70	.43	.19	3.22	2.28	13.87

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

MEAN	2.52	2.36	1.75	2.05	1.58	2.00	1.47	1.21	3.20	3.77	4.83	5.41
MAX	6.34	15.0	13.3	7.99	8.28	11.8	3.58	4.62	14.8	8.07	12.9	11.7
(WY)	1996	1998	1998	1998	1998	1998	1997	1991	1992	1997	1995	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1989 - 1998
ANNUAL TOTAL	2134.64	2343.00	
ANNUAL MEAN	5.85	6.42	2.68
HIGHEST ANNUAL MEAN			6.42
LOWEST ANNUAL MEAN			.84
HIGHEST DAILY MEAN	110	103	151
LOWEST DAILY MEAN	.24	.01	.00
ANNUAL SEVEN-DAY MINIMUM	.27	.01	.00
INSTANTANEOUS PEAK FLOW		110	238
INSTANTANEOUS PEAK STAGE		18.58	21.47
ANNUAL RUNOFF (CFSM)	6.22	6.83	2.85
ANNUAL RUNOFF (INCHES)	84.48	92.72	38.77
10 PERCENT EXCEEDS	13	14	5.6
50 PERCENT EXCEEDS	1.5	1.9	.77
90 PERCENT EXCEEDS	.36	.13	.11

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300038 RATTLESNAKE SLOUGH NEAR SARASOTA, FL

LOCATION.--Lat 27°25'24", long 82°29'25", in SW¹/₄ 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 mi².

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e13	48	9.2	15	e8.6	16	13	.56	2.6	e.00	e1.1	e1.6
2	e9.0	42	7.2	13	e7.8	16	9.5	.49	1.8	e.00	e1.1	e1.5
3	e6.0	31	6.2	11	e26	9.7	e8.0	e.25	2.6	e.00	e1.0	e1.5
4	e4.1	15	28	11	17	6.0	e6.8	e.17	2.4	e.00	e.98	e1.4
5	e3.3	8.1	33	10	8.9	4.6	e5.6	e.11	.95	e.00	e.94	e1.3
6	e2.5	5.7	18	9.2	6.4	3.8	e4.8	e.08	.49	e.00	e.90	e1.9
7	e2.0	4.5	11	8.7	9.6	3.0	e3.9	e.06	e.30	e.00	2.0	2.7
8	e1.7	3.7	8.7	43	7.4	2.6	e3.2	e.04	e.20	e.00	5.6	9.8
9	e1.4	2.8	7.9	50	5.1	25	e2.8	e.03	e.11	e.00	16	5.8
10	1.2	2.5	7.1	28	3.8	21	e2.2	e.03	e.08	e.00	18	3.5
11	1.1	2.1	6.8	17	3.1	12	e1.9	e.02	e.06	e.00	8.0	2.5
12	1.0	1.9	12	13	2.5	6.5	e1.7	e.02	e.04	1.7	4.6	1.9
13	.97	54	124	11	2.0	4.1	e1.4	e.01	e.02	19	3.0	1.8
14	.94	169	127	11	2.1	3.5	e1.2	e.01	e.01	30	2.3	e1.7
15	.90	81	67	13	3.8	2.6	e.93	e.00	e.00	11	2.2	e1.6
16	.86	40	38	20	69	2.4	e.79	e.00	e.00	7.0	3.3	e1.5
17	.84	21	23	16	86	1.9	e.67	e.00	e.00	4.7	15	e1.4
18	3.4	14	16	12	60	1.5	e.55	e.00	e.00	3.4	7.4	3.0
19	12	11	13	11	29	e140	e.47	e.00	e.00	2.7	9.1	60
20	6.0	10	12	9.6	28	e210	e.39	e.00	e.00	2.3	10	78
21	2.9	8.7	11	8.6	21	e114	e.32	e.00	e.00	4.2	6.6	66
22	1.8	7.8	10	8.2	14	e72	e.27	e.00	e.00	6.7	4.3	27
23	1.3	9.1	9.3	e20	9.9	e45	e.23	e.00	e.00	4.9	3.2	12
24	1.1	8.9	9.0	e164	7.2	33	e.19	e.00	e.00	3.6	2.6	9.3
25	.95	7.7	9.2	e120	6.0	27	e.17	e.00	e.00	2.1	2.4	14
26	.90	6.9	23	e58	5.4	23	e.13	e.00	e.00	e1.8	2.3	23
27	3.3	6.3	117	e35	4.7	21	e.12	e.00	e.00	e1.6	2.2	11
28	15	5.8	103	e23	4.5	19	e.09	e.00	e.00	e1.5	e2.1	7.5
29	8.0	5.6	48	e18	---	17	e.08	.52	e.00	e1.4	e2.0	5.6
30	4.2	7.3	28	e14	---	16	.54	1.8	e.00	e1.3	e1.9	4.6
31	22	---	19	e11	---	17	---	8.0	---	e1.2	e1.7	---
TOTAL	133.66	641.4	961.6	812.3	458.8	896.2	71.94	12.20	11.66	112.10	143.82	364.4
MEAN	4.31	21.4	31.0	26.2	16.4	28.9	2.40	.39	.39	3.62	4.64	12.1
MAX	22	169	127	164	86	210	13	8.0	2.6	30	18	78
MIN	.84	1.9	6.2	8.2	2.0	1.5	.08	.00	.00	.00	.90	1.3
CFSM	1.14	5.66	8.21	6.93	4.33	7.65	.63	.10	.10	.96	1.23	3.21
IN.	1.32	6.31	9.46	7.99	4.52	8.82	.71	.12	.11	1.10	1.42	3.59

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	5.47	3.38	4.45	5.16	3.20	4.67	2.93	1.85	6.69	6.14
MAX	16.5	21.4	31.0	26.2	16.4	28.9	7.40	8.73	32.2	15.9
(WY)	1996	1998	1998	1998	1998	1998	1993	1991	1992	1992
MIN	.44	.002	.000	.000	.20	.19	.016	.000	.003	2.22
(WY)	1992	1992	1992	1992	1989	1997	1989	1990	1990	1993

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1989 - 1998
ANNUAL TOTAL	3039.28	4620.08	
ANNUAL MEAN	8.33	12.7	5.15
HIGHEST ANNUAL MEAN			12.7
LOWEST ANNUAL MEAN			1.78
HIGHEST DAILY MEAN	169	Nov 14	481
LOWEST DAILY MEAN	.00	Many Days	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 5	.00
INSTANTANEOUS PEAK FLOW			220
INSTANTANEOUS PEAK STAGE			24.70
ANNUAL RUNOFF (CFSM)	2.20		3.35
ANNUAL RUNOFF (INCHES)	29.91		45.47
10 PERCENT EXCEEDS	20		28
50 PERCENT EXCEEDS	1.7		3.9
90 PERCENT EXCEEDS	.10		.00

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	7.2	1.2	e6.0	e11	e1.2	e.06	.00	.00	.00	.03	.01
2	1.5	10	.76	e3.5	e9.2	e1.0	e.05	.00	.00	.00	.04	.00
3	.99	4.9	.50	e2.5	e7.4	e.90	e.04	.00	.00	.00	.03	.00
4	.72	2.4	8.8	e2.0	e6.0	e.82	e.03	.01	.00	.00	.01	.05
5	.49	1.4	5.1	e1.7	3.8	e.75	e.03	.01	.00	.00	.00	.01
6	.31	1.0	2.3	e1.5	3.5	e.70	e.03	.01	.00	.00	.00	.01
7	.18	.77	1.3	e1.4	4.5	e1.1	e.02	.00	.00	.00	.00	.21
8	.11	.60	.88	e1.3	3.5	e1.8	e.02	.00	.00	.00	.02	.34
9	.09	.48	.70	e1.2	2.9	e2.2	e.02	.00	.00	.00	.08	.56
10	.11	.38	.64	e1.1	2.5	e1.3	e.02	.01	.00	.00	.11	.61
11	.12	.31	.60	e1.1	2.2	e1.0	e.02	.00	.00	.00	.08	.45
12	.13	.25	1.5	e1.0	2.2	e.84	e.01	.00	.00	.00	.03	.32
13	.13	94	134	e.98	2.1	e.70	e.01	.00	.00	.00	.00	.23
14	.13	144	86	e.94	2.2	e.66	e.01	.00	.00	.00	.00	.14
15	.14	30	25	e.90	3.1	e.45	e.01	.00	.00	.03	.00	.11
16	.14	7.4	9.1	e.88	e73	e.38	e.01	.00	.00	.56	.00	.21
17	.14	2.9	4.7	e.85	e30	.30	e.01	.00	.00	.41	.00	.43
18	.27	1.7	3.6	e.82	e17	.29	e.01	.00	.00	.18	.02	.59
19	.28	1.3	3.0	e.80	e10	174	e.01	.00	.00	.04	.17	47
20	.22	.99	2.6	e.80	e6.9	196	e.01	.00	.00	.02	1.7	102
21	.16	.81	2.4	e7.0	e5.6	e70	e.01	.00	.00	.03	1.1	53
22	.14	.73	2.3	e20	e4.6	e37	e.01	.00	.00	.03	.89	12
23	.13	.86	2.1	e180	e3.7	e19	e.01	.00	.00	.04	.54	4.5
24	.15	.75	2.1	e100	e3.1	e11	e.01	.00	.00	.04	.36	4.6
25	.15	.59	2.1	e47	e2.5	e5.0	e.01	.00	.00	.05	.19	13
26	.16	.51	5.2	e36	e2.0	e2.5	e.01	.00	.00	.06	.05	25
27	.34	.44	109	e30	e1.6	e1.3	e.00	.00	.00	.06	.00	7.0
28	.73	.36	e70	e25	e1.4	e.60	.00	.00	.00	.04	.00	3.1
29	.49	.37	e35	e20	---	e.30	.00	.00	.00	.02	.00	2.1
30	.34	.81	e20	e16	---	e.15	.00	.00	.00	.02	.00	1.6
31	8.1	---	e12	e13	---	e.09	---	.00	---	.05	.00	---
TOTAL	19.59	318.21	554.48	525.27	227.5	533.33	0.49	0.04	0.00	1.68	5.45	279.18
MEAN	.63	10.6	17.9	16.9	8.13	17.2	.016	.001	.000	.054	.18	9.31
MAX	8.1	144	134	180	73	196	.06	.01	.00	.56	1.7	102
MIN	.09	.25	.50	.80	1.4	.09	.00	.00	.00	.00	.00	.00
MED	.16	.84	2.6	1.7	3.6	1.0	.01	.00	.00	.02	.02	.50
CFSM	.55	9.30	15.7	14.9	7.13	15.1	.01	.00	.00	.05	.15	8.16
IN.	.64	10.38	18.09	17.14	7.42	17.40	.02	.00	.00	.05	.18	9.11

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	1.78	1.36	2.01	2.50	1.12	1.98	.70	.32	4.21	1.99
MAX	5.45	10.6	17.9	16.9	8.13	17.2	2.67	1.40	24.9	4.70
(WY)	1996	1998	1998	1998	1998	1998	1993	1991	1992	1997
MIN	.015	.000	.000	.000	.000	.001	.000	.000	.000	.054
(WY)	1992	1990	1994	1992	1989	1989	1989	1989	1989	1998

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1989 - 1998
ANNUAL TOTAL	1758.58	2465.22	
ANNUAL MEAN	4.82	6.75	2.32
HIGHEST ANNUAL MEAN			6.75
LOWEST ANNUAL MEAN			.33
HIGHEST DAILY MEAN	215	Sep 27	368
LOWEST DAILY MEAN	.00	Many Days	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 22	.00
INSTANTANEOUS PEAK FLOW			.00
INSTANTANEOUS PEAK STAGE			.00
ANNUAL RUNOFF (CFSM)	4.23	20.36	21.13
ANNUAL RUNOFF (INCHES)	57.39	5.92	2.04
10 PERCENT EXCEEDS	8.7	80.44	27.69
50 PERCENT EXCEEDS	.25	11	3.2
90 PERCENT EXCEEDS	.00	.30	.07
		.00	.00

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300042 WARD LAKE OUTFALL NEAR BRADENTON, FL

LOCATION.--Lat 27°26'28", long 82°29'16", in NE¹/₄ 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 mi², 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	348	243	80	181	97	104	25	.00	.00	.00	.10	13
2	227	448	77	145	117	98	21	.00	.00	.00	.33	25
3	164	439	50	121	380	76	15	.00	.00	.00	.36	10
4	121	217	136	104	334	55	9.7	.00	.00	.00	.26	8.3
5	99	150	187	88	196	38	5.9	.00	.00	.00	.13	5.3
6	89	114	112	73	138	29	4.2	.00	.00	.00	.00	4.4
7	72	94	76	72	148	23	3.7	.00	.00	.00	.07	13
8	50	85	56	216	129	18	1.7	.00	.00	.00	3.4	58
9	44	67	49	238	93	137	.88	.00	.00	.00	26	47
10	36	58	46	163	69	145	.76	.00	.00	.00	33	56
11	30	50	41	112	56	75	.58	.00	.00	.00	7.6	31
12	25	46	72	82	43	38	.58	.00	.00	.00	1.1	20
13	20	873	1620	63	39	26	.41	.00	.00	.00	.53	13
14	14	4580	2480	63	34	19	.27	.00	.00	.00	.32	7.9
15	4.1	2770	1220	76	50	13	.22	.00	.00	.00	.15	7.5
16	1.7	1050	569	132	825	9.2	.15	.00	.00	.00	3.9	5.8
17	1.2	531	344	148	1280	5.2	.05	.00	.00	.00	58	14
18	26	328	241	107	1010	5.6	.00	.00	.00	.00	105	24
19	52	229	186	86	461	1480	.00	.00	.00	.00	239	769
20	44	193	156	72	338	4090	.00	.00	.00	.00	270	1630
21	33	166	136	60	257	2440	.00	.00	.00	.00	133	1500
22	26	141	113	55	189	918	.00	.00	.00	.00	77	724
23	24	125	97	1040	133	447	.00	.00	.00	.00	74	364
24	21	105	102	2160	109	272	.00	.00	.00	.00	117	256
25	11	94	102	1050	85	188	.00	.00	.00	.00	101	275
26	7.8	88	266	453	75	132	.00	.00	.00	.00	62	495
27	36	76	1280	287	60	98	.00	.00	.00	.00	44	385
28	93	64	1530	232	54	75	.00	.00	.00	.00	63	229
29	75	59	649	174	---	57	.00	.00	.00	.00	55	165
30	53	71	345	138	---	44	.00	.00	.00	.00	30	128
31	163	---	242	113	---	33	---	.00	---	.00	15	---
TOTAL	2010.8	13554	12660	8104	6799	11188.0	90.10	0.00	0.00	0.00	1520.25	7283.2
MEAN	64.9	452	408	261	243	361	3.00	.000	.000	.000	49.0	243
MAX	348	4580	2480	2160	1280	4090	25	.00	.00	.00	270	1630
IN.	1.26	8.47	7.92	5.07	4.25	6.99	.06	.00	.00	.00	.95	4.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1998, BY WATER YEAR (WY)

MEAN	73.6	96.4	69.8	74.5	45.9	75.3	33.0	13.4	58.0	143	174	179
MAX	140	452	408	261	243	361	127	46.4	163	293	443	243
(WY)	1996	1998	1998	1998	1998	1998	1993	1997	1996	1995	1995	1998

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1993 - 1998	
ANNUAL TOTAL	55318.21		63209.35		86.5	
ANNUAL MEAN	152		173		173	
HIGHEST ANNUAL MEAN					173	
HIGHEST DAILY MEAN	4580		4580		Nov 14 1997	
LOWEST DAILY MEAN	.00		.00		Many Days	
ANNUAL SEVEN-DAY MINIMUM	.00		.00		Nov 8 1992	
INSTANTANEOUS PEAK FLOW			5120		Jun 26 1992	
INSTANTANEOUS PEAK STAGE			5.36		Jun 26 1992	
ANNUAL RUNOFF (INCHES)	34.59		39.52		19.76	
10 PERCENT EXCEEDS	342		346		238	
50 PERCENT EXCEEDS	26		38		6.1	
90 PERCENT EXCEEDS	.00		.00		.00	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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02300044 BRADEN RIVER NEAR ELWOOD PARK, FL

LOCATION.--Lat 27°26'44", long 82°29'28", in NW¹/₄ 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 mi², 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, 13.82 ft, Nov. 14; minimum, 8.85 ft, Jan. 1.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	11.57	9.79	12.66	10.19	12.50	9.60	10.36	8.85	11.44	9.43	11.92	9.85
2	11.78	9.87	12.78	10.44	11.44	9.02	10.63	9.01	12.08	9.67	11.72	9.68
3	11.41	9.47	11.72	9.62	11.44	8.94	10.79	9.08	12.80	10.71	11.51	9.60
4	11.48	9.56	11.50	9.22	11.79	9.62	10.95	9.22	12.48	11.68	11.29	9.51
5	11.49	9.40	11.36	9.21	11.58	9.37	11.09	9.48	11.74	10.02	11.56	9.34
6	11.29	9.29	11.23	9.34	10.75	9.14	11.30	9.39	11.45	9.39	11.60	9.40
7	11.24	9.23	11.51	10.18	10.61	9.15	11.71	9.26	11.86	9.89	12.08	9.39
8	11.36	9.35	11.21	9.65	11.31	9.57	11.75	9.64	11.71	9.36	11.76	9.68
9	11.60	9.35	11.47	9.58	11.40	9.70	11.44	9.53	11.53	9.26	11.97	10.59
10	11.48	9.24	11.60	9.87	11.58	9.45	11.25	9.15	11.54	9.18	11.69	9.49
11	11.39	9.30	11.78	9.67	11.63	9.27	11.30	8.98	11.86	9.51	10.87	9.02
12	11.83	9.60	12.29	9.50	11.66	9.18	11.58	8.91	11.99	9.64	10.66	8.94
13	11.68	9.73	13.38	9.85	12.84	10.96	11.70	9.14	11.65	9.52	10.77	9.19
14	11.82	9.76	13.82	13.20	12.86	11.38	11.47	9.12	11.22	9.28	10.85	9.07
15	11.95	9.65	13.34	11.20	12.01	10.42	11.57	9.28	11.12	9.48	10.79	9.17
16	11.88	9.50	11.93	10.08	11.47	9.67	11.92	9.94	12.25	9.86	---	---
17	11.89	9.50	11.42	9.42	11.11	9.40	11.10	9.39	12.56	10.79	---	---
18	12.24	9.63	11.34	9.38	11.22	9.28	10.94	9.32	11.57	10.32	---	---
19	12.30	10.01	11.54	9.35	11.00	9.18	11.49	9.90	11.34	9.89	---	---
20	11.49	9.25	11.03	9.32	10.92	9.30	11.28	9.61	11.25	10.20	---	---
21	11.67	9.50	11.30	9.49	11.23	9.93	11.15	9.59	10.93	9.29	---	---
22	11.73	9.85	11.32	9.75	11.33	10.06	11.70	9.57	11.99	9.09	---	---
23	11.57	9.72	11.07	9.67	10.97	9.88	12.84	9.56	12.05	9.82	---	---
24	12.07	10.31	10.89	9.18	11.60	9.82	12.78	11.85	11.96	9.45	---	---
25	11.90	10.31	10.99	8.99	11.66	9.68	11.85	10.20	11.33	9.09	---	---
26	12.10	10.64	11.38	9.30	11.69	9.50	12.24	9.59	11.63	9.21	---	---
27	12.77	10.62	11.43	9.19	12.56	10.51	12.24	9.73	12.34	9.83	---	---
28	11.72	9.64	11.85	9.25	12.28	10.77	12.44	9.69	12.21	9.70	---	---
29	11.32	9.54	11.92	9.26	12.08	10.12	11.73	9.35	---	---	---	---
30	11.74	9.35	12.27	9.37	12.70	9.73	11.82	9.49	---	---	---	---
31	12.43	9.62	---	---	11.52	9.30	11.81	9.53	---	---	---	---
MONTH	12.77	9.23	13.82	8.99	12.86	8.94	12.84	8.85	12.80	9.09	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	---	---	11.86	9.69	11.31	9.56	11.25	9.87	11.34	9.95	11.77	9.86
2	---	---	11.42	9.38	11.43	9.97	11.20	9.84	11.32	9.71	12.21	10.30
3	11.45	9.31	10.95	9.25	11.32	9.88	11.08	9.62	11.47	9.70	13.27	10.59
4	11.60	9.51	11.17	9.43	11.51	9.89	11.26	9.66	11.37	9.51	12.12	9.55
5	11.15	9.57	11.20	9.84	11.54	9.63	11.39	9.36	11.61	9.57	12.11	9.49
6	10.89	9.20	11.22	9.70	11.89	9.76	11.63	9.33	11.70	9.49	12.28	9.64
7	11.46	9.36	11.41	9.72	11.80	9.59	11.91	9.35	11.77	9.43	12.29	9.88
8	11.47	9.61	11.89	10.18	11.46	9.19	11.84	9.18	11.84	9.44	12.26	10.07
9	11.69	9.95	11.86	9.71	11.84	9.33	12.00	9.28	11.64	9.45	12.15	10.05
10	11.38	9.85	12.03	9.86	11.96	9.27	12.39	9.22	11.60	9.46	11.92	9.74
11	11.15	8.95	11.91	9.55	12.06	9.24	12.18	9.40	11.52	9.62	11.83	9.66
12	10.93	9.20	11.81	9.40	11.96	9.30	11.92	9.48	11.42	9.82	11.75	9.70
13	11.35	9.37	11.74	9.36	11.72	9.32	11.93	9.39	11.14	9.71	11.78	9.79
14	11.62	9.49	11.86	9.42	11.88	9.37	11.67	9.56	11.35	9.53	11.76	9.81
15	11.78	9.53	11.91	9.42	11.76	9.40	11.40	9.55	11.38	9.52	11.78	9.65
16	11.68	9.57	11.95	9.34	11.68	9.52	11.27	9.71	11.33	9.44	12.08	10.01
17	11.57	9.61	11.99	9.44	11.42	9.70	11.37	9.64	11.50	9.49	12.47	10.30
18	11.56	9.47	11.68	9.62	11.32	9.80	11.52	9.46	11.42	9.79	12.40	10.35
19	11.66	9.44	11.48	9.72	11.50	9.66	11.51	9.23	11.71	9.82	12.80	11.04
20	11.27	9.56	11.29	9.38	11.66	9.40	11.77	9.31	11.90	9.51	12.53	11.31
21	11.47	9.33	11.36	9.44	11.77	9.22	11.79	9.32	11.65	9.49	12.32	10.75
22	11.26	9.61	11.49	9.57	11.80	9.18	11.95	9.30	11.92	9.72	12.02	10.44
23	11.27	9.79	11.98	9.61	11.96	9.25	12.10	9.39	11.80	9.76	12.02	10.14
24	11.17	9.35	11.98	9.46	12.12	9.22	12.00	9.42	11.89	9.86	11.70	9.96
25	11.30	9.25	12.13	9.44	11.97	9.18	11.92	9.47	11.90	9.98	11.24	9.30
26	11.77	9.35	12.23	9.48	11.92	9.22	11.94	9.47	11.63	10.15	13.12	9.65
27	11.97	9.38	12.21	9.38	11.84	9.31	11.58	9.50	11.76	10.20	12.09	10.16
28	12.05	9.23	12.18	9.40	11.58	9.32	11.51	9.67	11.58	10.11	11.87	10.01
29	11.90	9.20	12.04	9.34	11.31	9.43	11.17	9.82	11.70	10.05	11.90	9.98
30	12.00	9.26	11.80	9.38	11.22	9.50	11.28	9.99	11.66	9.95	12.19	10.42
31	---	---	11.46	9.32	---	---	11.33	10.23	11.96	9.90	---	---
MONTH	---	---	12.23	9.25	12.12	9.18	12.39	9.18	11.96	9.43	13.27	9.30

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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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 (corrected), 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, 36,000 microsiemens, Jan. 9, 1997; bottom probe maximum, 37,200 microsiemens, Feb. 5, 1997; 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, 33,000 microsiemens, July 9; bottom probe maximum, 33,000 microsiemens, July 7; top probe minimum, 101 microsiemens, Nov. 15; bottom probe minimum, 86 microsiemens, Nov. 24.

TEMPERATURE.--Top probe maximum, 38.2°C, June 5; bottom probe maximum, 35.2°C, Aug. 16; top probe minimum, 15.6°C, Jan. 12; bottom probe minimum, 14.6°C, Jan. 2, Feb. 10.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(3 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	291	184	8940	694	4690	576	180	165	208	187	333	229
2	340	224	2210	352	2990	379	187	171	211	195	271	241
3	313	233	429	288	2050	507	196	174	212	194	285	263
4	314	241	386	332	3680	274	208	184	221	205	308	274
5	328	254	396	341	309	243	216	187	225	217	436	292
6	348	284	545	317	299	244	260	190	226	217	516	317
7	394	292	413	368	305	260	231	197	225	218	484	341
8	606	343	465	344	360	260	230	195	230	218	515	392
9	634	373	538	388	414	277	212	199	236	217	430	343
10	903	404	643	433	382	279	225	209	255	222	373	348
11	1530	493	714	522	374	281	243	210	286	227	397	365
12	4670	1160	926	452	343	269	281	216	289	233	421	389
13	8140	4570	1310	252	274	159	340	227	289	238	471	412
14	8790	7310	252	104	162	108	357	238	295	240	541	428
15	9030	6730	123	101	122	110	299	233	355	238	551	431
16	10500	8070	149	121	148	121	248	229	247	201	644	451
17	12800	10100	184	148	161	139	240	227	201	176	752	503
18	13700	8850	198	174	167	153	274	231	176	164	1820	522
19	13600	10100	216	180	180	161	304	234	174	165	687	358
20	11800	9760	234	204	186	167	299	242	185	172	366	297
21	11900	9810	250	210	197	172	331	244	197	180	323	298
22	14300	11800	254	212	200	180	324	256	202	185	353	323
23	16000	14000	283	216	212	180	298	197	206	195	390	352
24	18100	15200	280	247	221	198	197	134	219	200	404	387
25	19700	16700	368	244	228	205	146	133	264	201	431	404
26	21100	18900	304	252	247	205	152	140	272	213	455	426
27	20700	19100	474	248	215	190	161	147	288	221	491	450
28	19700	15600	731	272	190	155	171	154	330	228	543	474
29	17800	13700	2410	277	162	155	177	164	---	---	608	491
30	16000	11400	3930	745	166	156	184	172	---	---	558	516
31	14100	4260	---	---	181	162	198	177	---	---	705	536
MONTH	21100	184	8940	101	4690	108	357	133	355	164	1820	229

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(3 FT ABOVE BOTTOM)

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	750	562	19200	17500	24200	22700	30200	28500	28300	24100	10200	1630
2	995	540	19000	17900	23400	21800	30400	27800	28800	25700	13400	1450
3	1630	604	19000	17000	24000	22200	29900	28800	29700	24500	16100	7420
4	2110	854	20100	17900	23800	22300	30700	27900	29800	22800	15700	3940
5	1400	789	19100	17900	24500	16200	---	---	30400	25000	14100	4440
6	1180	820	20000	18000	21000	16900	---	---	30100	25100	13800	4910
7	2430	793	20200	13300	20100	17300	---	---	29900	23100	14500	3110
8	3070	1090	19100	12800	18900	17900	---	---	30400	3200	13000	1320
9	4960	1810	18600	14900	22300	16900	---	---	28800	1420	12000	1500
10	5990	2430	18700	15400	24000	19900	---	---	18500	977	10300	1290
11	3100	2160	18400	14200	24600	19400	---	---	12800	1470	8620	1140
12	3190	2290	16500	13200	23300	19700	---	---	13600	2540	8760	1600
13	5770	2330	17100	13100	23500	19700	---	---	15200	4880	10500	3410
14	8830	4710	17900	12800	25200	20800	30000	14300	16900	8520	11200	4140
15	10700	7030	19800	15800	26700	21300	29300	15500	16900	11400	11800	5710
16	12500	9190	20500	17800	27600	23200	---	---	17400	12100	11000	6720
17	13300	10600	22300	17700	28300	24000	---	---	17400	1520	14300	8010
18	14000	11100	23800	18600	27200	25600	---	---	14300	1140	16500	5680
19	13500	11200	23500	21500	27300	24500	---	---	1180	583	5680	379
20	13500	12300	23200	18700	27800	26500	---	---	701	453	486	227
21	14000	12000	22300	20100	28300	25600	---	---	669	448	304	200
22	14000	11900	23000	18900	29000	26600	---	---	650	482	309	197
23	13300	11800	23000	18600	29000	27300	---	---	640	440	368	211
24	12500	11400	23000	19400	30100	26800	---	---	608	411	336	228
25	13900	11600	24600	21400	29700	26500	29400	24100	561	396	321	242
26	15100	12200	25300	22000	29800	26500	29100	25000	573	395	321	239
27	16700	13400	24700	22300	29600	27600	29200	26500	617	417	378	255
28	16600	14500	25300	22300	29400	28300	29000	26900	933	435	444	259
29	16800	14400	25400	24700	29200	28500	29700	26500	1640	550	442	269
30	18500	14700	25400	22900	29700	27100	28900	26100	3320	650	354	264
31	---	---	24800	22600	---	---	28700	23700	6790	1130	---	---
MONTH	18500	540	25400	12800	30100	16200	---	---	30400	395	16500	197

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	---	---	---	---	---	---	188	175	224	194	307	200
2	396	236	---	---	---	---	197	180	243	215	284	256
3	419	250	---	---	---	---	209	184	---	---	377	265
4	679	126	383	333	---	---	228	191	---	---	450	258
5	644	142	406	338	---	---	224	192	275	265	612	330
6	939	161	747	352	358	269	283	200	313	265	586	425
7	1050	165	776	324	443	283	293	232	278	264	597	471
8	1650	371	564	367	528	170	241	207	283	266	570	397
9	1320	155	---	---	531	489	227	211	288	266	442	347
10	2270	454	---	---	527	480	238	222	402	273	381	354
11	---	---	---	---	---	---	325	228	463	289	410	375
12	---	---	---	---	---	---	---	---	442	284	455	395
13	---	---	---	---	438	170	---	---	382	283	486	429
14	---	---	293	99	174	118	---	---	360	276	602	356
15	---	---	124	99	135	119	436	252	449	283	551	465
16	---	---	155	122	158	133	291	237	301	235	714	477
17	---	---	181	151	171	147	257	245	235	177	724	528
18	---	---	194	175	175	160	---	---	203	186	5460	555
19	---	---	219	181	185	167	---	---	204	162	4030	374
20	---	---	223	208	237	177	473	231	217	195	382	310
21	---	---	---	---	219	182	827	278	230	154	341	313
22	---	---	---	---	274	184	839	408	238	214	375	341
23	---	---	---	---	251	190	771	159	244	222	410	362
24	---	---	300	86	296	216	211	132	266	189	426	408
25	---	---	---	---	282	215	143	133	376	216	457	425
26	---	---	---	---	256	217	153	143	458	252	481	450
27	---	---	---	---	231	200	229	133	500	258	500	458
28	---	---	---	---	200	164	173	130	384	243	689	481
29	---	---	---	---	170	164	183	162	---	---	560	524
30	---	---	---	---	179	164	196	179	---	---	586	546
31	---	---	---	---	183	171	216	189	---	---	1070	576
MONTH	---	---	---	---	---	---	---	---	---	---	5460	200
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	762	556	21800	20600	28100	27300	30200	28100	30500	26700	12600	3220
2	840	619	22000	20700	27900	27200	30200	27900	29900	26700	14100	5720
3	2130	713	21900	21000	27800	27200	29400	28300	30500	26600	16700	9360
4	2900	1750	22100	21000	27600	27100	29600	27600	30400	26300	16500	7600
5	2890	1760	21900	19800	27400	19900	29400	28500	31100	26500	15700	5000
6	2240	1250	22000	20100	22400	19400	31400	28400	31000	27700	14400	7000
7	4570	1350	22200	21400	22200	18700	33000	28800	31000	27300	14700	7490
8	7040	2690	22000	21300	20300	19200	32800	29200	31300	20100	13700	7520
9	10600	3040	22700	21500	23500	18500	32900	30700	30200	2220	13200	4970
10	20300	7060	22800	20700	24800	20700	32700	29800	23300	1840	13400	12300
11	15200	4210	22600	21500	25200	21600	32700	30100	19100	3600	12300	11300
12	7090	3150	23100	21100	24600	22400	32400	28100	19400	8000	11300	10200
13	19200	3990	23100	21300	24600	21800	30600	18700	19200	11500	12200	11100
14	16100	4900	23400	20200	26000	22500	30300	17100	18900	11900	13400	12100
15	---	---	23500	21600	27500	23400	29800	22100	19700	12800	14300	13400
16	---	---	23800	21300	28000	24300	28700	21700	19800	15000	14700	13700
17	14400	13000	25600	23000	28200	25300	28200	23000	19500	2730	15500	13700
18	14900	13800	26000	24600	27500	25900	28200	25200	18200	1230	17400	15500
19	15400	12600	26200	25400	27500	25600	28000	23900	2030	643	17400	8190
20	14900	12400	---	---	28100	25000	27700	24300	742	484	13800	214
21	15000	13400	---	---	28500	25700	28100	25800	704	485	306	196
22	15300	12100	---	---	29000	26400	28300	25900	729	519	364	251
23	15100	13400	---	---	29100	27000	28700	26000	683	479	492	280
24	14300	12100	---	---	29900	27200	28500	25000	664	446	649	242
25	15700	13500	27500	25800	30000	27300	28400	25400	582	434	501	268
26	16300	12900	28400	24200	29700	27600	28300	24900	709	426	406	247
27	18100	12100	28400	26300	29600	26800	28400	25200	823	442	395	275
28	19100	15500	29100	27000	29100	27900	28200	26300	1270	455	703	286
29	20000	18000	28800	27500	28600	27700	28500	26300	3150	601	1320	360
30	21000	19500	28600	28100	29700	27200	29500	26200	5720	925	1240	317
31	---	---	28400	27700	---	---	30200	27100	9950	1810	---	---
MONTH	---	---	---	---	30000	18500	33000	17100	31300	426	17400	196

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(3 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	28.5	27.2	25.1	23.9	22.5	21.5	17.2	15.9	18.7	16.8	23.3	22.1
2	29.4	27.2	25.1	24.2	22.0	20.4	17.2	15.6	19.0	17.7	22.1	20.5
3	28.7	27.6	24.4	23.6	22.1	20.7	18.4	16.0	19.3	18.3	21.5	19.2
4	29.0	27.4	24.6	23.3	22.5	21.2	19.6	17.4	19.0	18.1	21.1	19.7
5	29.8	27.6	24.3	22.7	21.6	20.5	20.4	18.5	18.7	17.4	20.9	19.6
6	29.6	27.4	23.7	22.5	20.8	19.5	21.4	19.5	17.7	17.2	22.0	20.4
7	30.0	27.6	23.2	22.2	20.1	18.8	22.0	20.7	17.3	16.6	23.5	21.3
8	29.9	28.0	22.2	21.5	19.2	18.0	22.1	20.8	17.4	16.3	23.7	22.1
9	29.9	28.0	22.1	20.8	20.4	18.3	21.5	20.5	18.1	16.0	23.6	22.1
10	29.9	28.0	21.9	20.5	21.9	19.4	21.5	20.0	18.3	15.8	22.3	20.7
11	29.2	27.6	22.1	21.4	22.5	21.0	21.5	19.5	18.9	17.1	21.3	19.9
12	28.4	26.7	22.9	21.8	22.5	21.7	21.2	19.5	19.9	18.1	20.0	18.4
13	28.0	26.7	23.1	22.1	21.8	20.7	21.1	19.8	19.3	17.7	19.4	17.5
14	28.0	27.3	23.3	22.3	20.7	19.6	20.8	20.2	18.9	17.0	19.6	17.6
15	27.9	27.3	23.6	23.0	19.6	18.2	20.8	20.1	18.6	17.0	20.0	18.3
16	27.7	27.3	23.1	22.1	18.3	17.5	21.0	19.9	19.1	18.0	21.3	19.2
17	28.0	27.3	22.1	20.8	18.2	17.1	21.1	19.5	20.8	19.1	22.2	19.7
18	28.0	27.0	21.3	20.4	18.1	16.9	20.4	19.2	22.1	20.6	22.1	20.8
19	27.6	26.5	21.5	20.2	18.3	16.7	20.3	19.4	22.5	21.2	21.8	20.4
20	26.7	25.9	22.0	19.8	18.7	16.7	20.5	19.1	22.9	21.7	20.5	20.1
21	26.7	25.8	22.7	20.5	18.6	17.5	20.3	19.3	22.8	21.1	20.4	19.8
22	26.8	26.3	22.8	21.6	20.5	18.3	20.9	19.5	22.9	21.6	19.8	19.4
23	27.0	26.6	22.6	21.9	20.8	19.4	20.8	19.9	22.7	21.5	19.8	19.0
24	27.1	26.7	22.1	20.8	21.5	20.3	20.4	19.9	22.1	20.5	20.5	18.9
25	26.7	26.3	21.7	19.5	22.1	21.0	19.9	18.8	22.8	20.1	21.5	19.1
26	26.8	26.4	20.8	19.8	22.0	21.1	18.8	18.2	22.1	20.5	22.2	20.1
27	27.3	26.7	22.1	19.8	21.8	20.8	19.1	18.1	22.4	21.4	23.0	20.6
28	27.1	25.9	22.1	20.2	20.8	19.4	18.7	17.6	22.9	21.8	24.4	21.4
29	26.3	25.5	22.1	21.1	19.4	17.8	18.1	17.2	---	---	25.6	22.7
30	26.0	24.7	22.4	21.8	18.0	17.2	18.9	16.9	---	---	25.2	23.5
31	25.3	24.3	---	---	18.3	16.7	18.7	17.0	---	---	25.9	24.1
MONTH	30.0	24.3	25.1	19.5	22.5	16.7	22.1	15.6	22.9	15.8	25.9	17.5
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	26.5	25.0	25.5	25.1	29.4	28.7	34.4	31.4	33.7	31.8	33.2	30.8
2	26.5	25.2	26.3	25.1	30.1	29.0	34.5	31.9	35.1	30.8	32.9	29.7
3	27.0	25.4	26.2	25.1	30.7	29.4	34.5	32.0	33.8	32.0	32.0	29.8
4	26.6	25.6	25.8	25.1	31.5	30.4	34.4	32.0	32.6	30.9	33.8	30.3
5	26.3	25.1	25.3	24.8	38.2	30.4	33.2	32.0	32.6	29.8	32.6	29.2
6	25.6	24.4	25.9	25.1	37.1	34.5	33.2	31.4	32.6	29.8	30.9	27.7
7	26.4	24.6	27.3	25.5	36.3	33.9	33.2	30.3	31.4	27.7	32.0	28.3
8	26.7	24.9	27.6	26.4	35.7	33.4	32.0	30.3	32.6	27.7	32.0	28.9
9	26.3	25.3	28.0	26.7	34.3	30.9	32.0	29.8	32.6	28.3	31.4	29.2
10	26.2	24.2	28.5	27.6	32.6	29.8	31.0	28.7	32.6	28.8	31.4	28.6
11	24.6	22.8	28.6	27.6	32.6	29.8	31.4	28.7	32.7	29.2	31.4	27.7
12	24.1	22.4	28.0	27.5	32.6	30.4	31.4	27.7	33.3	31.4	30.8	27.7
13	24.2	22.4	28.9	27.5	32.6	30.5	32.0	26.3	34.5	31.4	31.4	28.7
14	23.9	23.2	28.8	28.0	32.0	29.8	32.0	28.2	35.5	32.6	32.5	28.2
15	24.2	23.6	29.0	28.1	32.1	30.1	31.4	28.7	35.1	32.6	31.4	28.2
16	24.9	23.9	29.0	28.0	32.6	30.3	31.4	27.7	35.4	32.0	30.3	27.7
17	25.4	24.7	28.8	28.0	33.2	30.2	34.5	30.2	35.6	31.4	29.8	27.7
18	26.3	25.1	28.5	28.0	34.5	31.4	35.1	31.2	34.5	30.4	29.7	27.3
19	27.5	25.6	29.4	28.3	33.8	31.5	33.5	30.8	32.0	30.3	27.7	27.3
20	26.6	26.3	30.0	28.6	33.2	30.9	32.5	29.8	31.2	29.7	27.3	26.3
21	26.3	25.8	30.1	29.0	32.6	31.4	32.0	27.7	30.9	29.2	27.7	26.3
22	26.2	24.5	30.0	29.2	33.8	29.8	31.4	27.7	30.4	28.7	28.7	27.3
23	25.9	23.6	30.1	29.0	33.2	30.3	32.6	29.2	31.4	28.7	32.0	27.7
24	24.8	23.2	30.0	28.7	32.0	28.2	34.8	29.8	32.6	28.7	31.5	27.7
25	24.3	23.0	29.9	29.0	31.8	29.7	33.2	30.3	30.9	28.7	28.2	27.2
26	24.3	23.3	29.9	29.3	31.4	29.8	33.2	30.3	32.6	28.7	27.6	27.2
27	24.9	23.8	29.6	28.7	31.4	29.7	33.2	30.9	33.2	30.8	27.7	26.8
28	25.5	24.5	29.4	28.0	32.6	29.7	34.4	31.4	33.3	30.3	30.3	26.8
29	26.3	25.1	28.9	28.0	32.6	30.4	34.4	32.0	33.8	30.4	29.8	27.3
30	25.8	25.1	29.4	28.2	33.2	30.4	34.2	31.5	34.5	30.4	28.3	27.3
31	---	---	29.4	28.6	---	---	34.0	32.0	33.2	30.8	---	---
MONTH	27.5	22.4	30.1	24.8	38.2	28.2	35.1	26.3	35.6	27.7	33.8	26.3

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	27.1	26.5	25.7	25.3	21.5	21.5	16.0	14.9	20.5	15.7	23.3	22.1
2	28.0	26.1	25.7	23.3	21.5	20.8	16.0	14.6	17.9	16.8	22.1	20.5
3	27.5	26.6	23.3	22.5	21.3	20.8	16.8	14.9	18.2	17.4	20.5	18.5
4	27.0	26.2	23.3	22.2	21.5	21.1	17.6	16.0	17.9	17.1	19.2	18.5
5	27.0	26.6	22.6	21.5	21.2	19.5	18.5	17.4	17.5	16.4	18.9	18.2
6	27.0	26.5	22.2	21.5	19.5	18.5	18.9	18.1	16.5	16.2	19.5	18.5
7	27.0	26.6	22.2	21.1	18.5	17.6	20.8	18.5	16.2	15.7	21.8	19.2
8	27.2	26.6	21.1	20.5	17.9	16.2	20.8	19.8	16.2	15.2	22.6	21.1
9	27.5	27.0	20.5	19.8	17.3	16.2	20.5	19.5	16.5	14.9	22.6	21.1
10	27.5	27.0	20.4	19.5	21.2	17.1	20.0	19.2	15.8	14.6	21.1	19.8
11	27.5	27.0	20.5	19.8	20.2	17.6	19.5	18.5	17.6	15.2	20.1	18.8
12	27.0	26.6	21.8	20.5	21.1	18.5	19.2	17.9	18.1	16.8	18.8	17.3
13	27.0	26.6	22.2	21.1	20.5	19.6	18.9	18.5	18.3	16.8	18.5	16.5
14	26.6	26.6	22.2	21.1	19.6	18.5	19.5	18.5	18.9	17.0	18.2	16.5
15	26.6	26.4	22.6	22.0	18.5	17.1	19.8	19.2	18.6	17.0	17.6	17.1
16	26.6	26.6	22.0	21.1	17.1	16.5	19.8	18.8	19.1	18.0	19.5	17.4
17	26.6	26.6	21.1	19.8	17.0	15.9	19.8	18.5	20.8	19.1	20.5	18.8
18	27.0	26.6	19.8	19.2	17.0	15.9	18.5	18.2	22.1	20.6	21.1	19.8
19	26.6	26.6	19.8	19.2	16.5	15.7	18.9	18.5	22.5	21.2	21.1	19.5
20	26.7	26.6	19.9	18.8	17.1	15.7	18.8	18.2	22.9	21.7	19.5	19.2
21	26.6	26.1	21.1	19.5	17.4	16.5	18.5	18.2	22.8	21.1	19.5	18.8
22	26.1	25.3	21.1	20.5	18.6	17.1	19.5	18.2	22.9	21.6	18.8	18.5
23	25.7	25.3	21.1	20.8	18.8	18.2	19.5	18.9	22.7	21.5	18.5	17.9
24	25.7	25.7	21.1	19.8	20.5	18.2	19.5	18.8	22.1	20.5	18.8	17.9
25	25.7	25.3	19.8	18.5	20.8	19.8	18.8	17.6	22.8	20.1	20.2	18.2
26	25.7	25.3	19.2	18.8	20.5	20.1	17.7	17.1	22.1	20.5	21.1	19.2
27	26.0	25.7	19.5	18.8	20.8	19.8	17.9	17.1	22.4	21.4	21.5	19.5
28	26.0	25.7	20.2	19.2	19.8	18.2	17.6	16.5	22.9	21.8	21.8	20.5
29	25.9	25.7	21.1	19.8	18.2	16.8	17.1	16.2	---	---	22.6	21.1
30	26.0	25.7	21.5	21.1	16.8	16.2	17.4	15.9	---	---	22.9	22.2
31	25.8	25.3	---	---	17.1	15.7	17.4	15.9	---	---	24.0	22.6
MONTH	28.0	25.3	25.7	18.5	21.5	15.7	20.8	14.6	22.9	14.6	24.0	16.5
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	24.5	23.3	24.5	24.1	27.8	27.5	33.2	31.4	33.2	32.0	33.2	31.4
2	24.2	23.7	24.1	24.1	27.9	27.5	34.5	32.0	34.5	30.9	32.8	30.8
3	25.3	23.9	25.7	24.1	28.0	27.5	34.2	32.0	33.8	32.0	32.5	30.2
4	25.3	24.9	25.7	24.1	28.0	27.5	34.0	32.0	32.8	31.4	33.2	30.8
5	25.3	24.5	24.5	24.1	33.2	27.9	32.8	32.0	32.6	29.8	32.0	29.8
6	24.5	23.3	24.5	24.1	33.8	31.7	32.6	31.4	32.5	29.7	30.9	28.7
7	24.1	23.3	25.3	24.5	33.2	30.8	32.8	30.3	31.3	29.7	31.4	28.7
8	24.9	24.1	25.3	24.6	32.0	30.3	32.0	30.3	32.6	28.2	31.4	29.8
9	25.3	24.5	26.6	24.9	32.0	29.7	32.0	29.9	32.0	29.7	31.0	30.3
10	24.9	24.8	27.0	25.7	32.0	29.8	30.9	29.8	32.0	29.7	30.9	28.9
11	24.9	22.6	27.0	26.2	32.6	29.8	31.3	29.8	32.6	30.3	30.9	28.4
12	23.3	21.8	27.0	26.6	32.6	30.5	31.4	29.8	33.2	31.9	30.8	29.2
13	22.6	22.2	31.0	27.0	32.4	30.3	31.4	28.7	34.5	32.6	31.4	29.8
14	22.9	22.6	27.5	27.0	31.6	29.8	31.8	29.8	35.1	33.2	32.0	30.3
15	23.2	22.6	30.7	27.0	32.0	29.8	31.5	29.8	35.1	33.1	31.4	29.2
16	23.9	23.0	28.0	27.5	32.0	29.8	31.4	29.1	35.2	32.6	30.3	29.3
17	24.5	23.7	28.0	27.1	33.2	29.8	33.0	30.9	35.0	32.6	29.8	28.7
18	25.3	24.1	27.5	27.0	33.9	31.4	33.8	31.7	34.0	30.3	29.2	27.7
19	26.2	25.2	27.6	27.5	33.2	31.4	33.2	30.8	31.4	29.8	27.7	27.3
20	25.7	25.3	27.5	27.5	33.2	30.8	32.0	29.8	30.9	29.7	27.3	26.3
21	25.3	25.2	28.6	27.5	32.6	31.4	31.9	29.2	30.3	29.1	27.7	26.3
22	25.3	25.3	31.4	27.9	32.6	29.8	31.4	28.4	30.3	28.7	27.7	26.8
23	25.3	24.1	32.8	28.0	32.6	30.3	32.0	29.8	30.9	28.3	28.7	27.3
24	24.2	23.3	33.0	28.4	31.6	29.8	33.2	30.8	31.6	28.7	29.8	27.7
25	23.3	22.6	32.9	28.4	31.4	29.7	32.9	31.4	30.9	28.2	27.7	27.2
26	23.7	23.3	33.3	28.9	30.9	29.8	32.8	30.8	32.6	28.7	27.3	26.9
27	24.1	23.3	28.9	28.4	31.4	29.7	33.2	31.3	32.6	30.3	27.7	26.8
28	24.5	24.1	28.4	27.3	32.0	29.7	34.0	32.0	32.6	30.3	28.7	26.8
29	24.9	24.5	27.5	27.4	32.6	30.4	33.8	32.1	33.2	30.3	29.4	27.3
30	24.9	24.5	27.5	27.5	33.2	30.7	33.8	32.0	32.8	30.8	28.2	27.3
31	---	---	27.7	27.5	---	---	33.8	32.6	33.0	31.4	---	---
MONTH	26.2	21.8	33.3	24.1	33.9	27.5	34.5	28.4	35.2	28.2	33.2	26.3

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

02300064 BRADEN RIVER AT BRADENTON, FL

LOCATION.--Lat 27°29'46", long 82°31'32", in SW¹/₄ 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 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1994 to current year.

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 8.95 ft, Dec. 15, 1995, Jan. 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.14 ft, Sept. 26; minimum 9.19 ft, Mar. 24, 25. Minimum gage heights were exceeded during periods when the water level was below the bottom of the gage stilling well.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	11.67	9.88	12.72	10.30	12.55	9.61	10.36	9.22	11.46	9.51	11.85	9.95
2	11.86	10.02	12.86	10.45	11.51	9.23	10.67	9.23	12.18	10.05	11.64	9.63
3	11.48	9.62	11.77	9.46	11.49	9.23	10.80	9.21	12.74	10.76	11.49	9.63
4	11.58	9.75	11.60	9.25	11.90	9.45	10.96	9.30	12.35	11.43	11.32	9.60
5	11.59	9.61	11.47	9.30	11.64	9.24	11.12	9.68	11.43	9.94	11.62	9.48
6	11.40	9.50	11.36	9.46	10.79	9.23	11.33	9.51	11.46	9.29	11.63	9.55
7	11.33	9.46	11.66	10.22	10.66	9.25	11.76	9.37	11.75	9.78	12.07	9.54
8	11.50	9.63	11.36	9.78	11.38	9.76	11.72	9.65	11.60	9.27	11.88	9.90
9	11.72	9.60	11.54	9.74	11.50	9.92	11.34	9.39	11.52	9.23	11.94	10.67
10	11.59	9.45	11.68	10.09	11.67	9.66	11.22	9.22	11.76	9.23	11.58	9.40
11	11.47	9.54	11.85	9.88	11.75	9.42	11.30	9.22	11.91	9.53	10.84	9.21
12	11.94	9.85	12.47	9.68	11.96	9.32	11.69	9.23	12.03	9.66	10.67	9.21
13	11.82	9.97	12.84	10.11	12.08	9.78	11.70	9.22	11.65	9.58	10.71	9.25
14	11.90	10.00	12.84	10.84	11.99	10.04	11.54	9.23	11.27	9.35	10.75	9.20
15	12.00	9.86	12.21	10.05	11.71	9.34	11.58	9.36	11.17	9.69	10.76	9.25
16	11.93	9.66	11.78	9.28	11.36	9.23	11.92	10.02	12.15	10.24	11.31	9.55
17	12.03	9.68	11.38	9.24	11.09	9.23	11.05	9.29	12.35	10.13	11.88	9.77
18	12.30	9.81	11.40	9.26	11.26	9.23	10.92	9.38	11.55	9.87	11.94	9.96
19	12.37	10.05	11.62	9.28	11.00	9.23	11.49	10.08	11.35	9.69	11.78	9.92
20	11.60	9.41	11.09	9.42	10.89	9.35	11.30	9.70	11.24	9.99	12.38	10.54
21	11.75	9.69	11.39	9.70	11.31	10.08	11.20	9.70	10.96	9.24	11.66	10.59
22	11.84	10.04	11.38	9.93	11.38	10.20	11.74	9.71	12.07	9.21	11.34	9.80
23	11.66	9.94	11.13	9.83	11.07	10.02	12.11	9.71	12.01	9.90	11.24	9.37
24	12.16	10.61	10.84	9.29	11.69	9.98	11.65	10.17	11.87	9.39	11.32	9.19
25	11.97	10.60	11.07	9.25	11.73	9.82	11.47	9.32	11.55	9.20	11.29	9.19
26	12.20	10.91	11.46	9.47	11.77	9.54	12.19	9.20	11.87	9.24	11.29	9.20
27	12.74	10.82	11.55	9.30	12.10	9.91	12.29	9.64	12.36	10.01	11.35	9.29
28	11.80	9.84	11.92	9.42	12.04	9.38	12.33	9.38	12.22	9.83	11.72	9.52
29	11.44	9.74	12.17	9.39	12.04	9.55	11.72	9.24	---	---	11.62	9.27
30	11.98	9.55	12.45	9.50	12.53	9.53	11.82	9.35	---	---	11.63	9.28
31	12.55	9.85	---	---	11.50	9.22	11.80	9.56	---	---	12.04	9.52
MONTH	12.74	9.41	12.86	9.24	12.55	9.22	12.33	9.20	12.74	9.20	12.38	9.19

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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02300064 BRADEN RIVER AT BRADENTON, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	11.78	9.51	11.80	9.51	---	---	11.30	10.03	11.51	10.01	---	---
2	11.52	9.46	11.38	9.45	---	---	11.24	10.00	11.53	9.82	---	---
3	11.48	9.38	10.95	9.34	---	---	11.12	9.71	11.66	9.75	---	---
4	11.54	9.62	11.19	9.57	---	---	11.26	9.73	11.68	9.48	---	---
5	11.06	9.65	11.24	9.99	---	---	11.38	9.47	11.90	9.59	---	---
6	10.94	9.31	11.19	9.86	---	---	11.68	9.45	12.00	9.45	---	---
7	11.50	9.51	11.46	9.87	---	---	11.97	9.48	12.10	9.43	---	---
8	11.50	9.78	11.90	10.34	---	---	11.85	9.21	12.08	9.45	---	---
9	11.70	10.18	11.85	9.83	---	---	11.98	9.36	---	---	---	---
10	11.36	9.88	12.02	10.00	---	---	12.34	9.26	---	---	---	---
11	11.09	9.22	11.82	9.62	---	---	12.15	9.58	---	---	11.89	9.83
12	10.90	9.32	11.78	9.48	---	---	11.88	9.44	---	---	11.84	9.88
13	11.38	9.48	11.71	9.43	---	---	11.93	9.49	---	---	11.89	9.97
14	11.67	9.62	11.85	9.51	---	---	11.66	9.68	---	---	11.88	10.02
15	11.82	9.69	11.86	9.42	---	---	11.42	9.72	---	---	11.85	9.81
16	11.74	9.79	11.92	9.45	---	---	11.31	9.90	---	---	12.19	10.22
17	11.64	9.62	11.99	9.55	---	---	11.44	9.79	---	---	12.48	10.50
18	11.60	9.62	11.71	9.75	11.33	9.93	11.54	9.61	---	---	12.46	10.56
19	11.67	9.60	11.47	9.85	11.51	9.78	11.57	9.31	---	---	12.79	10.86
20	11.31	9.67	11.26	9.47	11.65	9.47	11.82	9.37	---	---	12.43	10.65
21	11.45	9.44	11.32	9.57	11.79	9.31	11.86	9.35	---	---	12.27	10.50
22	11.27	9.72	11.48	9.65	11.82	9.21	11.99	9.39	---	---	12.04	10.34
23	11.21	9.87	11.92	9.68	11.96	9.27	12.12	9.47	---	---	12.05	10.20
24	11.16	9.49	11.97	9.50	12.08	9.22	12.03	9.52	---	---	11.90	10.07
25	11.32	9.33	---	---	11.96	9.23	11.97	9.61	---	---	11.28	9.20
26	11.78	9.42	---	---	11.89	9.40	11.87	9.63	---	---	13.14	9.76
27	11.98	9.46	---	---	11.82	9.41	11.61	9.83	---	---	12.07	10.30
28	12.02	9.29	---	---	11.61	9.49	11.51	9.97	---	---	11.96	10.14
29	11.94	9.33	---	---	11.33	9.56	11.23	10.09	---	---	11.98	10.18
30	12.07	9.43	---	---	11.22	9.66	11.42	10.15	---	---	12.30	10.68
31	---	---	---	---	---	---	11.51	10.32	---	---	---	---
MONTH	12.07	9.22	---	---	---	---	12.34	9.21	---	---	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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, 47,700 microsiemens, Sept. 4, 1997; 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, 44,000 microsiemens, May 28; minimum, 282 microsiemens, Mar. 20.

TEMPERATURE.--Maximum, 34.9°C, Aug. 16; minimum, 10.4°C, Nov. 17.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(0.2 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	1780	1360	30400	9920	34200	20100	1280	820	9170	1970	14400	7360
2	2680	1750	26900	6530	28400	15300	3750	890	16600	2810	13100	6000
3	3580	2010	12000	3410	29900	15200	7990	1420	20500	7160	12700	5360
4	7420	2530	12500	1810	32600	14400	11900	2430	16800	6280	10400	4720
5	11000	3400	12400	2910	25800	3190	16400	4800	6280	1940	17900	3960
6	16700	4140	15200	3820	13500	1690	21200	6820	6080	1180	21900	5530
7	19700	3350	21400	11100	11500	1920	27300	8580	9270	1660	24900	8190
8	22900	9880	17300	7650	21300	5340	23700	11000	9310	1620	26200	12500
9	25900	12800	18600	8080	25400	11900	12300	3110	9060	1650	28000	16700
10	27900	7110	21700	10600	27700	14100	13200	2160	11200	1200	21200	7790
11	30200	17400	24200	11400	27300	14300	14900	1700	14900	3990	14200	3650
12	32000	21400	29500	13800	27200	14900	19300	4060	16500	6360	10100	2710
13	32500	23000	29400	10200	22400	606	20000	8160	14000	6150	13400	5500
14	33800	24600	19000	510	908	483	20500	8130	12900	5370	15500	3460
15	34200	25900	1170	407	929	483	24400	11100	17500	5720	17300	7580
16	34700	27000	1230	542	979	616	26700	11700	18000	1700	21800	11900
17	35800	27500	1280	649	1040	722	19600	5910	8340	822	22500	15000
18	37200	24400	1960	764	1310	857	17800	3750	870	427	25400	16300
19	37300	28200	3540	1140	1240	897	23300	7950	798	452	22400	850
20	33400	10700	8110	1420	4410	1010	19100	7920	871	607	952	282
21	34700	25500	18700	2610	10100	1900	19800	7600	936	514	539	321
22	35200	28300	23000	5630	23600	3490	28500	8200	10100	676	755	341
23	37000	26600	21500	6610	19000	6310	25800	1030	10900	2290	782	351
24	38600	30600	17400	4240	31000	10600	1080	384	8300	1590	821	494
25	39100	32300	23400	3530	30200	12400	818	366	7540	1510	1470	600
26	40200	33700	26900	9060	28900	11700	2230	427	12100	2400	4340	500
27	40800	33300	28500	11700	25400	1010	6860	757	14900	5840	9160	1560
28	36700	27200	30500	14300	1150	389	6100	836	16100	7750	15400	3680
29	34500	26600	33100	17600	6040	638	2130	792	---	---	16200	6160
30	37500	25500	33700	21000	6600	766	5630	1390	---	---	19600	7280
31	37900	13400	---	---	1460	930	7570	1880	---	---	23000	8440
MONTH	40800	1360	33700	407	34200	389	28500	366	20500	427	28000	282

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
MANATEE RIVER BASIN

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02300064 BRADEN RIVER AT BRADENTON, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(0.2 FT ABOVE BOTTOM)

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	25300	11200	37400	16200	40500	32100	40800	38500	41800	38200	31600	30500
2	24900	12100	17400	15100	41300	34300	41400	39100	41300	38200	32100	31200
3	27200	11600	17700	14500	40800	34700	40500	39100	40600	37800	34400	32100
4	24100	15600	35300	14900	41600	36600	40700	39200	41200	39300	35800	34200
5	21200	16000	36000	15600	41600	36400	40900	39200	42100	39400	35300	33300
6	21900	13300	36000	15900	42300	37100	41900	38900	42200	39600	34800	33100
7	27700	13700	37000	29600	42700	37100	41900	38100	42100	40000	34900	33900
8	27800	18900	39200	34400	41600	33800	42300	39100	41200	39500	35100	34100
9	30500	22000	39200	34000	41700	35100	41700	39400	39600	37100	35400	34300
10	27600	23100	39600	35100	41300	34200	42000	40500	39300	34900	35300	26100
11	27300	16800	40800	33800	41300	34500	42200	40900	39400	34500	31800	28900
12	25300	18600	38400	33500	41000	34900	42400	41500	35800	34800	31800	28200
13	29100	21400	38400	33500	39900	32500	42100	40300	35700	33300	31100	28400
14	31500	23700	39100	34000	39400	33200	42200	40300	34700	33000	31800	29600
15	32700	24200	39800	29300	36700	32400	42000	41200	33800	32000	31700	30000
16	32800	25100	40500	29200	35800	29800	41200	39500	33200	31000	33000	31000
17	33600	25400	41800	35100	39000	31000	40500	39700	32400	31200	34900	32500
18	33900	24200	41900	35500	38100	34500	41100	39000	32000	29900	35700	34400
19	34300	24700	41500	36200	38500	34200	41100	39200	31700	29700	35000	30700
20	32100	28200	41000	35500	38700	33100	40800	39100	29700	28100	31300	17100
21	32900	25400	41000	35700	39300	33200	40200	39200	28400	26900	17100	9120
22	33800	26800	41200	36000	39100	35700	40000	38700	27800	26900	9120	6160
23	33500	27600	42200	36200	39900	36000	39100	28800	27500	26800	6570	5260
24	32900	27200	42100	37900	40300	35400	29400	28200	27800	26700	5470	4370
25	33700	27600	42800	37600	40300	35500	35500	27900	27600	26900	5180	4420
26	35100	29200	43700	38100	40200	36000	35900	33500	27400	26400	5540	4750
27	36800	29700	43500	38000	40100	36400	33800	32900	27000	26300	6450	5540
28	37600	29300	44000	33100	40600	36800	34400	33600	26900	26000	7980	6450
29	36900	29100	43000	33700	40300	37000	33800	32400	26900	26100	8780	7970
30	38600	30200	41500	29500	40400	37500	41300	33000	30100	26700	11200	8500
31	---	---	41400	29500	---	---	41500	37500	31100	29700	---	---
MONTH	38600	11200	44000	14500	42700	29800	42400	27900	42200	26000	35800	4370

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MANATEE RIVER BASIN

02300064 BRADEN RIVER AT BRADENTON, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(0.2 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	30.0	27.2	24.8	22.5	21.0	19.6	16.3	12.0	18.4	15.9	22.5	21.3
2	29.5	27.5	25.6	23.2	20.9	16.0	17.5	12.7	19.0	16.9	21.4	17.8
3	29.5	26.1	24.0	21.5	21.7	19.0	20.7	14.4	19.0	16.7	19.3	16.9
4	29.5	26.5	24.0	19.3	20.7	20.0	22.5	16.6	19.0	16.7	19.4	16.6
5	29.5	27.0	23.6	20.6	21.3	17.2	23.6	18.1	16.7	14.9	20.0	16.9
6	29.5	26.6	24.0	21.0	19.0	12.3	23.6	19.7	16.5	14.4	22.1	18.9
7	29.5	26.1	23.8	21.4	17.2	13.3	23.2	20.0	15.2	13.4	22.8	20.1
8	29.5	26.1	21.4	19.8	17.8	15.2	23.2	20.7	15.2	12.0	23.2	20.4
9	29.3	26.1	21.2	18.7	20.7	16.7	22.1	20.6	16.0	12.5	22.5	20.6
10	29.5	25.7	22.1	19.4	22.1	19.3	21.1	18.5	17.6	12.9	20.6	17.8
11	28.5	25.7	22.5	20.5	22.8	20.3	21.0	18.1	18.1	15.3	18.3	15.8
12	28.1	25.2	23.0	20.7	22.5	21.0	20.7	16.8	19.7	16.3	17.2	11.8
13	28.0	25.6	22.4	21.7	21.4	20.0	20.7	18.1	18.4	16.6	16.9	11.9
14	28.0	25.7	23.6	22.1	20.0	17.8	20.0	19.0	18.3	15.7	17.8	13.2
15	27.5	25.2	24.0	21.4	17.8	15.2	20.7	19.0	18.9	15.5	19.7	15.2
16	27.4	25.2	22.8	19.0	17.1	13.7	20.3	19.0	19.5	17.2	20.0	16.9
17	27.0	24.4	20.7	10.4	18.1	14.9	19.3	17.5	22.1	19.0	21.0	18.0
18	26.1	24.4	20.7	16.9	18.4	15.5	20.0	17.3	22.1	20.0	21.4	19.0
19	24.8	22.8	21.7	18.7	19.3	15.5	19.7	17.7	23.2	20.3	21.3	19.6
20	24.0	20.4	23.2	18.7	20.7	16.3	19.3	17.2	23.6	21.0	20.3	19.1
21	25.4	22.1	24.3	20.0	20.0	16.9	19.5	17.5	24.0	16.6	20.0	18.4
22	25.3	22.4	25.7	20.7	22.8	17.8	20.7	18.7	22.1	19.6	18.7	16.6
23	26.9	22.4	24.5	22.3	22.8	19.7	20.1	19.3	21.7	20.0	20.3	16.0
24	25.7	22.8	22.4	19.2	22.1	19.4	19.7	17.8	20.3	17.2	22.5	16.0
25	27.1	24.0	20.7	12.5	22.1	20.3	17.8	14.7	21.4	15.8	23.2	17.1
26	27.1	24.8	21.7	17.5	22.5	20.4	16.9	12.7	21.4	17.8	23.6	17.5
27	26.1	24.4	21.4	17.8	22.1	19.0	18.1	16.6	21.6	19.4	23.6	20.3
28	24.4	21.6	22.1	19.0	19.3	15.2	17.5	16.0	22.5	20.5	24.0	20.7
29	23.2	20.3	21.7	20.3	17.4	15.5	17.5	14.8	---	---	25.5	22.1
30	23.2	20.3	21.4	20.3	16.3	14.3	18.1	15.5	---	---	25.2	22.4
31	22.9	22.2	---	---	18.1	14.4	18.8	16.3	---	---	25.3	23.1
MONTH	30.0	20.3	25.7	10.4	22.8	12.3	23.6	12.0	24.0	12.0	25.5	11.8
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	26.1	24.0	25.5	23.6	32.2	29.0	33.4	30.2	34.1	31.1	33.6	31.6
2	27.1	24.8	26.1	23.3	33.4	29.5	34.7	31.1	33.4	30.7	31.6	30.5
3	27.7	25.3	27.2	23.2	34.1	29.7	34.1	31.6	33.0	30.0	31.1	29.5
4	27.0	25.6	26.6	24.4	34.7	30.1	34.1	31.1	32.2	31.0	31.7	28.8
5	25.7	22.8	26.6	23.5	34.7	31.1	32.2	30.5	32.2	29.5	31.7	29.6
6	26.1	20.6	29.5	24.8	34.7	31.6	32.2	31.1	32.2	29.5	31.1	28.9
7	26.6	22.4	29.9	26.5	34.1	31.1	32.3	30.5	31.6	29.1	31.1	28.5
8	26.6	23.3	29.0	26.6	32.2	29.0	32.2	29.5	32.0	28.7	31.1	28.9
9	25.7	24.3	29.7	26.6	32.2	28.4	31.7	30.5	32.2	29.4	31.1	28.4
10	24.9	21.7	29.0	27.0	32.8	29.5	30.5	29.0	32.2	28.9	32.0	28.4
11	23.2	19.0	29.0	26.6	32.8	30.5	31.1	28.9	33.4	31.1	31.1	28.0
12	24.0	19.3	29.5	26.1	33.5	31.2	31.7	29.5	34.1	31.8	30.0	27.5
13	24.0	21.0	29.5	26.6	32.8	31.1	31.7	28.9	34.7	32.2	30.5	27.5
14	24.0	21.3	30.0	27.1	32.2	30.5	32.2	29.9	34.7	32.2	31.1	27.5
15	24.8	22.1	30.2	28.0	32.8	30.5	30.5	28.4	34.1	32.2	30.0	27.9
16	25.7	22.8	30.0	27.1	32.8	30.7	30.0	28.0	34.9	31.6	29.0	27.5
17	26.6	23.6	29.5	26.6	34.1	31.1	32.2	28.4	34.1	30.5	28.5	27.1
18	26.6	24.4	30.2	27.0	34.7	31.5	33.4	29.5	34.1	31.1	29.0	26.6
19	27.0	24.0	31.1	28.0	34.1	31.6	32.2	29.5	32.8	30.6	29.0	27.0
20	26.8	25.2	31.6	27.7	34.1	30.5	31.2	28.4	32.2	28.9	28.5	26.2
21	26.1	24.4	32.1	27.8	32.8	30.6	31.1	28.4	31.1	27.5	29.5	26.6
22	26.1	22.4	32.2	28.4	32.8	30.0	30.9	28.0	30.9	27.5	30.0	28.2
23	24.4	21.0	31.7	28.4	32.8	30.0	31.7	28.4	31.6	28.2	30.5	28.4
24	24.4	20.0	31.6	28.4	32.8	30.0	32.3	29.5	32.2	28.9	31.1	28.5
25	24.9	20.9	31.2	28.4	32.2	30.0	32.2	30.5	32.2	29.4	30.0	25.2
26	24.4	21.7	31.1	28.9	31.7	30.0	32.2	30.5	32.2	30.5	27.5	25.7
27	26.1	22.5	29.5	27.5	31.7	29.5	32.8	30.5	33.4	31.1	28.4	26.8
28	26.4	23.2	29.0	26.6	32.2	29.0	33.4	31.1	34.1	31.6	31.6	27.0
29	25.7	23.7	30.3	26.6	32.8	30.5	34.1	31.6	34.6	30.3	31.6	27.5
30	25.3	24.0	30.0	28.4	32.8	30.2	34.7	31.4	34.7	30.5	29.1	27.5
31	---	---	31.6	27.9	---	---	34.7	31.6	34.7	31.1	---	---
MONTH	27.7	19.0	32.2	23.2	34.7	28.4	34.7	28.0	34.9	27.5	33.6	25.2

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
LITTLE MANATEE RIVER BASIN

169

02300100 LITTLE MANATEE RIVER NEAR FORT LONESOME, FL

LOCATION.--Lat 27°42'16", long 82°11'53", in NW 1/4 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 mi².

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 poor. Small diurnal fluctuation at low flow.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	210	33	70	67	145	144	40	24	8.4	2.6	e3.2
2	52	105	33	62	83	121	124	43	20	4.3	2.1	e3.9
3	40	62	31	45	185	142	110	31	10	3.0	2.2	e3.5
4	27	43	51	37	177	129	111	43	8.6	2.3	2.4	e3.7
5	23	26	85	31	134	e86	101	49	6.7	5.5	2.2	e4.4
6	26	19	79	26	106	e69	83	43	5.9	8.2	8.2	e6.0
7	27	16	54	35	94	e64	62	50	5.1	4.2	65	e8.0
8	26	14	42	96	118	e59	67	41	4.6	5.3	63	e12
9	26	13	37	119	129	e56	66	40	4.1	7.4	36	e20
10	21	12	36	93	e100	e72	70	48	5.2	12	25	e40
11	15	16	37	69	e50	e88	68	42	4.8	17	12	e60
12	12	11	58	57	e30	e105	58	38	4.3	8.7	5.2	e32
13	11	83	673	53	e25	e86	49	40	3.8	14	3.5	e24
14	10	560	716	46	e23	e70	47	24	3.5	31	2.9	e22
15	9.3	340	322	47	e21	e62	37	15	3.0	27	2.5	e21
16	8.8	152	157	84	20	e52	33	12	2.8	20	2.4	e20
17	8.3	94	109	85	23	e43	35	13	2.4	9.6	6.1	e21
18	9.5	51	80	71	31	e90	29	12	2.2	6.1	6.1	e22
19	11	34	63	62	219	e170	24	11	2.0	5.0	4.9	e24
20	10	30	53	60	565	e450	23	11	2.0	13	4.1	e45
21	9.0	35	54	57	327	e1000	34	12	1.8	8.4	4.0	e120
22	8.1	35	57	49	214	e800	36	13	1.6	11	3.9	e220
23	7.6	34	61	234	175	e660	38	15	3.7	6.2	3.3	e600
24	7.2	33	49	527	198	e550	34	11	5.5	e5.0	3.0	e350
25	7.0	32	42	219	210	e470	44	8.6	3.6	e4.2	2.4	e250
26	13	30	55	127	423	e400	63	14	2.9	e3.4	2.2	e290
27	28	29	390	96	355	e320	64	14	2.6	e2.9	2.1	e330
28	54	28	438	79	214	e280	41	11	3.9	e2.1	e2.7	e380
29	39	28	187	71	---	e230	26	18	2.8	1.8	e2.5	e310
30	30	30	121	64	---	e190	30	21	4.3	1.6	e2.4	e245
31	143	---	95	55	---	148	---	16	---	2.9	e2.8	---
TOTAL	796.8	2205	4298	2826	4316	7207	1751	799.6	157.7	261.5	289.7	3490.7
MEAN	25.7	73.5	139	91.2	154	232	58.4	25.8	5.26	8.44	9.35	116
MAX	143	560	716	527	565	1000	144	50	24	31	65	600
MIN	7.0	11	31	26	20	43	23	8.6	1.6	1.6	2.1	3.2
CFSM	.82	2.34	4.42	2.90	4.91	7.40	1.86	.82	.17	.27	.30	3.71
IN.	.94	2.61	5.09	3.35	5.11	8.54	2.07	.95	.19	.31	.34	4.14

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

MEAN	20.9	13.7	15.4	22.3	29.3	32.0	15.2	11.0	30.7	53.0	66.8	65.6
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	1968	1968	1967	1979	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1964 - 1998
ANNUAL TOTAL	14635.95	28399.0	
ANNUAL MEAN	40.1	77.8	31.3
HIGHEST ANNUAL MEAN			77.8
LOWEST ANNUAL MEAN			7.98
HIGHEST DAILY MEAN	716	Dec 14	2190
LOWEST DAILY MEAN	.27	Apr 6	.00
ANNUAL SEVEN-DAY MINIMUM	.35	Apr 5	.00
INSTANTANEOUS PEAK FLOW			1040
INSTANTANEOUS PEAK STAGE			10.28
ANNUAL RUNOFF (CFSM)	1.28		2.48
ANNUAL RUNOFF (INCHES)	17.34		33.64
10 PERCENT EXCEEDS	89		212
50 PERCENT EXCEEDS	16		33
90 PERCENT EXCEEDS	.86		3.4

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
LITTLE MANATEE RIVER BASIN

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 1997 TO SEPTEMBER 1998

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)
OCT 02...	0930	5.12	51	--	--	--	--
NOV 19...	0945	4.29	35	153	7.20	15.5	7.6
APR 15...	1215	4.32	36	627	6.80	18.0	7.5
JUN 11...	1105	2.43	4.8	546	8.20	25.0	5.7
AUG 05...	1107	2.11	2.2	286	7.70	24.0	6.0
SEP 16...	1100	3.50	E21	647	7.60	23.0	6.4

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	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)
OCT 02...	7	<.01	.07	.03	1.3	.62	.61
NOV 19...	--	<.01	.09	.02	1.1	.52	.49
APR 15...	--	<.01	.09	.03	.38	.64	.60
JUN 11...	--	.05	1.0	.08	.64	.86	.83
AUG 05...	--	.02	.37	.03	.51	.54	.55
SEP 16...	--	.01	.06	.04	.78	.37	.35

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
LITTLE MANATEE RIVER BASIN

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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 mi²

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	823	1120	125	e450	220	910	260	84	63	22	54	41
2	398	1110	102	e350	246	1110	250	95	58	27	53	43
3	203	655	98	e290	577	969	229	86	48	23	82	66
4	150	302	183	e260	733	621	215	67	37	20	67	59
5	136	196	321	e220	679	418	210	78	34	20	56	61
6	118	141	332	e180	529	351	192	76	30	26	68	57
7	108	114	301	172	393	333	169	74	28	32	203	128
8	100	106	223	479	323	301	152	81	25	28	440	148
9	90	98	176	736	299	372	156	68	26	28	721	222
10	85	84	159	569	288	567	157	68	30	40	440	351
11	71	80	177	383	275	557	150	73	28	64	244	304
12	66	81	317	283	267	434	141	67	26	71	171	182
13	61	257	1570	232	252	357	125	61	24	131	125	133
14	59	1360	e2200	206	258	321	116	60	22	174	94	108
15	56	2450	3280	208	278	277	109	49	21	255	80	97
16	53	1640	1660	338	885	200	99	39	20	272	132	102
17	49	963	1030	348	2410	203	94	38	20	197	589	96
18	61	492	648	295	2610	214	90	38	19	149	595	112
19	76	256	404	250	1510	755	83	36	19	93	229	407
20	64	181	305	217	2560	5240	83	37	18	102	155	1590
21	55	155	263	197	3900	6560	131	35	23	96	132	2900
22	49	143	245	184	2060	2710	122	34	24	171	126	1790
23	45	136	230	496	1290	1370	101	36	32	191	122	1180
24	46	133	220	1650	969	870	90	37	34	134	94	1030
25	43	118	204	2070	792	596	79	33	29	88	74	1200
26	48	111	262	1310	697	439	98	31	26	66	67	1350
27	84	117	1230	807	654	347	119	37	25	53	61	1590
28	131	113	2310	530	641	309	114	43	24	45	58	1410
29	118	98	1890	362	---	298	82	138	24	39	53	1090
30	102	101	e1300	291	---	271	70	114	22	36	45	747
31	373	---	e850	249	---	263	---	96	---	54	44	---
TOTAL	3921	12911	22615	14612	26595	28543	4086	1909	859	2747	5474	18594
MEAN	126	430	730	471	950	921	136	61.6	28.6	88.6	177	620
MAX	823	2450	3280	2070	3900	6560	260	138	63	272	721	2900
MIN	43	80	98	172	220	200	70	31	18	20	44	41

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1998, BY WATER YEAR (WY)

	MEAN	150	74.6	75.3	113	134	154	79.3	51.9	152	299	372	401
MAX	1160	430	730	483	950	921	439	288	683	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1940 - 1998
ANNUAL TOTAL	79307	142866	
ANNUAL MEAN	217	391	172
HIGHEST ANNUAL MEAN			411
LOWEST ANNUAL MEAN			40.2
HIGHEST DAILY MEAN	4510	Sep 28	11100
LOWEST DAILY MEAN	25	Apr 11	.92
ANNUAL SEVEN-DAY MINIMUM	27	Apr 5	1.2
INSTANTANEOUS PEAK FLOW			14000
INSTANTANEOUS PEAK STAGE		18.70	20.14
10 PERCENT EXCEEDS	476	1100	395
50 PERCENT EXCEEDS	69	143	58
90 PERCENT EXCEEDS	31	34	17

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
LITTLE MANATEE RIVER BASIN
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 1997 TO SEPTEMBER 1998

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)
OCT 02...	0900	7.69	434	--	--	--	--	--	--	--	--	--
NOV 19...	1050	5.78	256	186	7.60	16.0	--	7.8	--	--	--	--
DEC 18...	1200	9.16	634	160	5.19	13.0	240	8.5	11	5.1	7.4	4.4
APR 15...	1130	4.07	108	447	5.90	17.0	60	8.4	26	12	43	2.8
JUN 11...	1136	2.76	28	369	7.60	25.0	--	6.0	--	--	--	--
AUG 05...	1142	3.33	54	223	7.20	25.0	140	6.6	16	7.4	7.0	6.6
SEP 16...	1010	4.00	102	429	8.20	23.0	100	6.8	31	13	29	5.4

DATE	SULFATE DIS- SOLVED (MG/L AS S04) (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 SI02) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	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)
OCT 02...	--	--	--	--	--	3	<.01	.45	.10	1.3	.60	.58
NOV 19...	--	--	--	--	--	--	<.01	.59	.05	.88	.54	.50
DEC 18...	31	11	.28	4.9	138	--	<.01	.54	.07	.84	.44	.38
APR 15...	110	13	.83	5.6	282	--	<.01	.53	.05	.23	.45	.42
JUN 11...	--	--	--	--	--	--	<.01	.86	.04	.55	.38	.32
AUG 05...	47	17	.27	7.6	182	--	.02	.66	.03	.99	.49	.49
SEP 16...	130	17	.51	8.3	294	--	.01	.45	.07	.71	.40	.34

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)
OCT 02...	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	349	1.1	<1.0	<1.0	5.2	333	<1	<.1	<1.0	180	8.4
APR 15...	164	2.2	<1.0	<1.0	1.7	199	<1	<.1	<1.0	400	2.8
JUN 11...	--	--	--	--	--	--	--	--	--	--	--
AUG 05...	199	5.8	<1.0	<1.0	5.8	372	<1	<.1	<1.0	350	6.2
SEP 16...	206	2.0	<1.0	<1.0	6.5	340	<1	.1	1.6	550	4.2

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS

173

02300700 BULLFROG CREEK NEAR WIMAUMA, FL

(National water-quality assessment program station)

LOCATION.--Lat 27°47'30", long 82°21'08", in SE $\frac{1}{4}$ sec. 12, T.31 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, near center of span on downstream side of bridge on State Highway 672-S, 0.6 mi downstream from Little Bullfrog Creek, 6.0 mi northwest of Wimauma, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--29.1 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	480	26	e90	30	e110	22	7.0	31	2.4	7.7	5.5
2	72	356	24	e74	48	202	23	6.6	20	1.9	7.4	8.1
3	52	100	22	e64	176	103	21	7.0	13	1.6	6.6	6.9
4	40	44	44	e56	173	58	20	6.4	9.4	1.4	6.7	7.2
5	34	28	48	e48	94	45	21	5.7	6.9	1.4	6.3	6.1
6	31	21	45	e42	56	37	18	5.2	5.6	2.7	6.0	6.2
7	29	17	33	e110	49	33	19	5.0	4.6	1.8	11	11
8	27	14	26	331	43	30	17	5.0	3.8	2.1	31	24
9	21	13	23	e220	38	70	16	4.8	3.3	7.1	39	46
10	20	11	31	e150	34	54	14	5.8	3.1	34	26	50
11	e16	9.7	97	e100	29	44	e12	5.1	3.1	30	17	33
12	e12	9.4	194	e64	27	38	e11	3.1	3.1	29	13	22
13	e8.0	89	1390	e42	30	40	e9.8	3.3	3.1	64	9.9	17
14	8.2	518	1350	36	34	35	e8.6	3.3	2.8	47	8.0	14
15	4.1	506	523	47	43	30	e7.5	2.9	2.3	99	6.6	14
16	4.1	173	195	104	587	26	6.8	2.7	2.1	122	6.9	12
17	3.1	63	100	98	1100	25	7.6	3.3	2.1	114	16	11
18	7.5	40	71	58	679	24	8.2	2.7	2.1	49	39	31
19	8.1	30	56	43	242	539	7.0	2.0	1.6	41	27	733
20	6.9	25	47	36	1360	1200	7.4	2.1	1.7	37	17	1110
21	5.9	21	42	32	901	788	8.6	2.6	1.4	39	13	672
22	5.5	17	38	28	267	336	9.4	2.3	1.3	57	11	292
23	4.4	17	35	218	145	116	8.4	1.9	10	89	9.0	126
24	4.8	e18	34	326	100	63	7.1	1.5	20	74	7.6	110
25	3.9	e20	34	227	75	45	6.7	1.5	6.4	43	7.1	196
26	3.9	e23	51	107	58	36	8.1	1.4	5.0	28	6.5	506
27	63	e25	1220	68	52	31	8.2	1.8	4.5	23	6.5	522
28	83	e26	1310	54	56	32	5.7	44	4.3	17	5.9	303
29	55	e27	409	46	---	31	5.2	35	3.2	13	5.7	265
30	29	e27	150	38	---	27	5.1	59	2.5	11	4.7	148
31	117	---	e110	33	---	24	---	50	---	8.9	6.4	---
TOTAL	899.4	2768.1	7778	2990	6526	4272	349.4	290.0	183.3	1091.3	391.5	5308.0
MEAN	29.0	92.3	251	96.5	233	138	11.6	9.35	6.11	35.2	12.6	177
MAX	120	518	1390	331	1360	1200	23	59	31	122	39	1110
MIN	3.1	9.4	22	28	27	24	5.1	1.4	1.3	1.4	4.7	5.5
CFSM	1.00	3.17	8.62	3.31	8.01	4.74	.40	.32	.21	1.21	.43	6.08
IN.	1.15	3.54	9.94	3.82	8.34	5.46	.45	.37	.23	1.40	.50	6.79

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1998, BY WATER YEAR (WY)

	MEAN	31.6	20.8	28.1	36.3	46.2	54.7	28.2	23.3	42.1	48.1	68.6	96.8
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	16.3	7.13	1.88	3.18	10.8	9.28	8.52	
(WY)	1979	1957	1957	1957	1957	1981	1978	1977	1979	1979	1993	1958	

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1957 - 1998
ANNUAL TOTAL	25415.5	32847.0	
ANNUAL MEAN	69.6	90.0	43.6
HIGHEST ANNUAL MEAN			90.0
LOWEST ANNUAL MEAN			21.9
HIGHEST DAILY MEAN	3130	Sep 27	3130
LOWEST DAILY MEAN	2.3	Jun 20	.00
ANNUAL SEVEN-DAY MINIMUM	3.6	Jun 15	.00
INSTANTANEOUS PEAK FLOW		2210	5200
INSTANTANEOUS PEAK STAGE		28.86	30.64
ANNUAL RUNOFF (CFSM)	2.39	3.09	1.50
ANNUAL RUNOFF (INCHES)	32.49	41.99	20.34
10 PERCENT EXCEEDS	98	195	84
50 PERCENT EXCEEDS	17	26	18
90 PERCENT EXCEEDS	6.2	3.2	5.6

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS

02300700 BULLFROG CREEK NEAR WIMAUMA, FL--Continued
(National water-quality assessment program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-58, 1966-75, 1977-83, 1992 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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)
OCT									
02...	0830	20.23	75	--	--	--	--	--	--
NOV									
19...	1135	18.94	30	334	6.90	16.0	--	8.4	--
DEC									
18...	1235	20.03	70	285	5.91	13.0	--	9.3	--
APR									
15...	1045	18.54	15	466	5.80	18.0	40	9.1	43
JUN									
11...	1200	17.97	3.4	483	7.50	29.0	--	9.0	--
AUG									
05...	1230	18.18	6.5	588	7.30	27.0	--	8.5	--
SEP									
16...	0930	18.47	12	474	8.10	23.0	60	7.7	42

DATE	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)	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)
OCT								
02...	--	--	--	--	--	--	--	--
NOV								
19...	--	--	--	--	--	--	--	--
DEC								
18...	--	--	--	--	--	--	--	--
APR								
15...	18	13	6.6	110	21	.33	11	306
JUN								
11...	--	--	--	--	--	--	--	--
AUG								
05...	--	--	--	--	--	--	--	--
SEP								
16...	18	14	10	120	31	.31	11	354

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	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 TOTAL (MG/L AS P) (70507)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
OCT								
02...	12	<.01	.35	.11	1.0	.44	.44	--
NOV								
19...	--	<.01	.31	.10	.72	.29	.27	--
DEC								
18...	--	<.01	.37	.10	.71	.30	.26	--
APR								
15...	--	.02	1.2	.06	.49	.21	.18	1200
JUN								
11...	--	.01	.43	.05	.74	.25	.20	--
AUG								
05...	--	.02	.20	.06	.69	.30	.30	--
SEP								
16...	--	<.01	.18	.04	.50	.27	.25	1100

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

175

02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL

LOCATION.--Lat 27°53'01", long 82°06'01", in SW¹/₄ 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 mi², 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	492	513	100	607	220	581	253	94	57	39	65	53
2	329	670	90	471	205	793	230	74	66	54	72	47
3	213	415	81	392	513	682	230	58	52	40	76	48
4	155	274	121	352	802	571	183	52	44	35	67	56
5	133	200	288	317	582	486	166	67	44	33	64	87
6	110	163	300	287	369	399	153	85	39	34	57	131
7	96	165	184	291	299	330	143	65	34	33	125	77
8	92	143	171	375	284	307	135	63	32	77	166	154
9	93	116	195	741	235	637	128	65	32	89	102	191
10	91	101	167	609	202	881	123	61	55	120	81	114
11	81	98	246	426	194	578	115	44	79	128	70	89
12	75	102	435	338	192	409	115	39	79	105	62	68
13	66	151	1940	291	183	328	122	37	65	161	52	60
14	64	822	2460	274	220	285	110	36	55	211	50	54
15	60	1090	1460	265	236	246	96	36	53	236	56	54
16	61	643	971	352	911	225	91	37	48	325	50	66
17	62	430	761	405	2330	211	87	38	45	320	212	61
18	63	314	628	318	1510	228	82	36	42	217	191	71
19	74	234	505	249	1040	993	78	35	39	167	116	539
20	62	197	397	224	2260	3040	72	33	37	176	133	1710
21	52	161	324	219	1820	1670	104	33	38	254	131	2470
22	44	141	291	195	1120	1140	106	43	39	217	126	1420
23	41	133	267	248	e1010	884	88	42	40	169	112	1060
24	43	133	253	656	908	756	79	32	40	132	118	896
25	41	114	240	663	724	652	76	30	36	119	73	848
26	38	102	264	441	602	536	65	29	33	114	56	1440
27	69	99	2370	341	508	450	61	30	32	107	49	1310
28	233	92	2440	305	465	388	59	36	33	90	73	975
29	207	87	1190	262	---	348	60	46	30	82	57	763
30	116	98	878	229	---	313	61	39	29	80	79	652
31	154	---	737	222	---	288	---	62	---	74	56	---
TOTAL	3510	8001	20754	11365	19944	19635	3471	1477	1347	4038	2797	15564
MEAN	113	267	669	367	712	633	116	47.6	44.9	130	90.2	519
MAX	492	1090	2460	741	2330	3040	253	94	79	325	212	2470
MIN	38	87	81	195	183	211	59	29	29	33	49	47
AC-FT	6960	15870	41170	22540	39560	38950	6880	2930	2670	8010	5550	30870

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1998, BY WATER YEAR (WY)

	MEAN	147	103	111	126	149	173	97.1	84.0	123	196	259	286
MAX	481	299	669	367	712	884	413	467	458	664	669	1138	
(WY)	1953	1954	1998	1998	1998	1959	1959	1979	1968	1960	1959	1960	
MIN	44.8	26.4	22.8	33.5	29.3	31.3	18.3	8.90	12.8	51.1	52.4	38.7	
(WY)	1985	1991	1991	1991	1991	1997	1985	1950	1951	1950	1950	1990	

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1950 - 1998
ANNUAL TOTAL	51924	111903	
ANNUAL MEAN	142	307	155
HIGHEST ANNUAL MEAN			370
LOWEST ANNUAL MEAN			66.1
HIGHEST DAILY MEAN	2460	3040	8200
LOWEST DAILY MEAN	14	29	3.9
ANNUAL SEVEN-DAY MINIMUM	15	33	4.9
INSTANTANEOUS PEAK FLOW		4910	9570
INSTANTANEOUS PEAK STAGE		13.23	15.86
ANNUAL RUNOFF (AC-FT)	103000	222000	112000
10 PERCENT EXCEEDS	265	775	300
50 PERCENT EXCEEDS	52	132	92
90 PERCENT EXCEEDS	22	40	36

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

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 1997 TO SEPTEMBER 1998

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...	0835	4.68	242	491	8.80	16.0	--	8.6	--	--	--	--
DEC 18...	1030	7.84	632	481	5.58	12.0	--	8.4	--	--	--	--
APR 30...	1030	2.47	62	627	7.80	23.0	40	7.1	48	14	55	5.6
JUN 11...	0925	2.74	86	579	6.30	26.0	--	5.5	--	--	--	--
AUG 05...	0934	2.54	68	587	7.40	26.0	--	6.0	--	--	--	--
SEP 16...	1215	2.55	69	472	7.80	24.0	80	6.8	37	12	37	5.6

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)
NOV 19...	--	--	--	--	--	<.01	.52	.03	.80	3.4	3.3
DEC 18...	--	--	--	--	--	.04	.53	2.8	3.4	19	18
APR 30...	140	41	2.6	13	410	<.01	1.5	<.01	.69	5.2	4.7
JUN 11...	--	--	--	--	--	.20	1.8	1.2	1.9	8.9	7.8
AUG 05...	--	--	--	--	--	.01	.75	.02	.59	4.1	3.6
SEP 16...	84	35	2.3	14	314	.03	1.3	.08	.89	5.4	5.3

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 19...	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	--	--
APR 30...	--	--	--	--	--	--	--	--	--	180	--
JUN 11...	--	--	--	--	--	--	--	--	--	--	--
AUG 05...	--	--	--	--	--	--	--	--	--	--	--
SEP 16...	302	2.8	<1.0	<1.0	<1.0	500	<1	<.1	3.4	130	5.0

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

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02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL

LOCATION.--Lat 27°47'47", long 82°07'04", in SW¹/₄ 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 mi².

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e220	301	98	407	252	e320	323	80	35	8.1	88	29
2	e130	247	105	377	258	e410	312	83	36	7.3	76	31
3	e90	193	109	356	362	e390	299	84	36	7.7	65	38
4	e60	154	130	347	406	e370	289	87	35	11	58	45
5	e51	127	154	335	387	e355	280	90	33	11	64	55
6	e48	113	156	323	350	e345	270	87	30	10	69	74
7	e46	112	143	310	320	e330	261	81	26	31	106	97
8	e44	109	128	360	292	e340	260	72	23	63	132	112
9	e41	103	110	413	266	e400	260	64	22	33	113	139
10	e37	85	102	383	249	e530	253	57	23	45	91	126
11	e33	63	151	338	241	e470	235	51	24	47	75	103
12	e31	48	181	301	242	e420	216	46	24	38	65	84
13	e29	91	584	270	249	e380	203	44	22	80	56	71
14	e28	286	952	251	265	e340	187	45	18	97	47	54
15	26	416	738	257	272	e310	167	46	15	217	42	48
16	27	377	569	302	271	e280	149	46	15	173	44	83
17	25	319	469	302	e690	e250	140	47	14	166	60	78
18	24	298	399	290	e620	e330	143	46	11	169	67	82
19	29	280	353	269	e600	e560	141	44	8.0	175	53	170
20	26	254	320	248	e670	e800	134	42	7.0	226	40	e280
21	24	214	302	232	e730	e600	144	38	6.2	218	35	e450
22	22	165	290	221	e780	e490	144	33	8.0	233	34	e720
23	21	138	281	288	e620	e455	136	26	13	216	47	e940
24	20	123	273	450	e500	e430	129	20	11	198	41	e740
25	19	110	261	472	e390	e410	121	17	9.3	184	42	e660
26	18	103	271	410	e310	e400	112	17	11	167	44	e620
27	30	100	576	361	e240	e380	105	18	14	150	41	e780
28	70	96	781	332	e260	e365	100	20	14	132	50	e720
29	63	91	581	310	---	e355	94	27	10	118	51	e660
30	51	91	490	288	---	e350	83	28	8.3	106	42	e610
31	132	---	445	265	---	e340	---	31	---	100	35	---
TOTAL	1515	5207	10502	10068	11092	12505	5690	1517	561.8	3437.1	1873	8699
MEAN	48.9	174	339	325	396	403	190	48.9	18.7	111	60.4	290
MAX	220	416	952	472	780	800	323	90	36	233	132	940
MIN	18	48	98	221	240	250	83	17	6.2	7.3	34	29
AC-FT	3010	10330	20830	19970	22000	24800	11290	3010	1110	6820	3720	17250

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

MEAN	107	63.8	61.7	84.2	92.4	91.0	68.5	45.8	84.7	137	192	193
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	8.41	4.19	10.4	25.7	40.2	23.0
(WY)	1987	1993	1993	1992	1991	1997	1997	1981	1977	1985	1990	1990

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1964 - 1998
ANNUAL TOTAL	32823.5	72666.9	
ANNUAL MEAN	89.9	199	102
HIGHEST ANNUAL MEAN			199
LOWEST ANNUAL MEAN			31.0
HIGHEST DAILY MEAN	952	Dec 14	2430
LOWEST DAILY MEAN	3.4	Apr 23	1.2
ANNUAL SEVEN-DAY MINIMUM	3.9	Apr 6	1.5
INSTANTANEOUS PEAK FLOW			1010
INSTANTANEOUS PEAK STAGE			16.59
ANNUAL RUNOFF (AC-FT)	65110	144100	73820
10 PERCENT EXCEEDS	252	447	223
50 PERCENT EXCEEDS	29	130	58
90 PERCENT EXCEEDS	5.8	23	17

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

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 1997 TO SEPTEMBER 1998

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...	0907	14.41	283	320	7.40	15.5	7.2
DEC							
18...	1105	15.19	399	271	6.02	12.0	8.1
APR							
15...	1250	13.14	166	325	6.60	17.0	7.0
JUN							
11...	0955	10.47	24	435	7.20	26.0	6.1
AUG							
05...	1025	11.46	66	328	7.40	25.0	5.6
SEP							
16...	1135	11.69	79	259	7.80	23.5	6.1

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	.02	.79	.67	.66
DEC						
18...	<.01	.12	.03	.65	.87	.79
APR						
15...	<.01	.21	.03	.42	.92	.87
JUN						
11...	.01	.46	.09	.66	.94	.91
AUG						
05...	.02	.32	.03	.72	.72	.71
SEP						
16...	<.01	.34	.04	.69	.58	.53

LOCATION.--Lat 27°52'19", long 82°12'41", in NE¹/₄ 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 mi², approximately.

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 ft³/s. Maximum gage height from floodmarks.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1420	1040	266	1450	545	1320	654	171	106	e58	158	102
2	771	1170	255	1130	530	1530	600	178	101	73	146	105
3	575	909	243	931	1010	1620	577	150	103	62	148	109
4	456	585	350	816	1250	1390	537	141	87	56	139	122
5	375	449	564	756	1270	1130	490	158	81	57	159	165
6	322	370	534	704	960	988	464	187	79	56	153	254
7	275	343	442	674	751	869	436	165	68	56	293	e181
8	247	327	366	900	684	783	418	146	62	125	453	e246
9	234	289	396	1270	608	1110	408	e128	60	143	312	381
10	214	256	423	1310	541	1550	402	e118	68	171	223	336
11	197	222	551	1050	501	1500	379	e108	107	214	183	260
12	179	201	827	801	487	1040	357	e98	96	189	e157	205
13	165	260	2150	685	477	792	334	e98	105	261	e124	173
14	157	1160	4110	625	519	683	329	e89	83	311	e107	145
15	150	1650	4290	608	553	611	290	e84	76	425	116	128
16	132	1650	3380	732	1400	562	261	e80	71	527	141	147
17	121	1100	2340	790	3280	533	240	e80	68	517	304	160
18	122	743	1570	722	4100	518	226	e79	64	423	315	180
19	139	613	1150	630	3470	1340	226	e79	61	364	234	837
20	135	543	912	575	3780	3900	217	72	e53	373	261	1930
21	111	487	752	536	4640	5050	242	74	e52	434	264	4080
22	98	418	677	506	4070	4270	262	75	50	463	211	4360
23	88	366	634	652	3340	3310	238	81	58	426	202	3470
24	86	334	607	1190	2690	2430	216	65	69	356	196	3290
25	82	305	587	1350	2080	1730	205	62	64	309	154	2850
26	77	274	622	1220	1610	1350	189	61	57	284	125	3260
27	119	260	2370	928	1280	1100	175	61	59	262	111	3740
28	382	248	4690	781	1110	960	165	66	64	228	115	3490
29	380	233	4260	684	---	863	160	100	59	200	123	2830
30	265	245	3030	619	---	769	156	85	48	185	134	1960
31	306	---	2000	573	---	708	---	89	---	178	111	---
TOTAL	8380	17050	45348	26198	47536	46309	9853	3228	2179	7786	5872	39496
MEAN	270	568	1463	845	1698	1494	328	104	72.6	251	189	1317
MAX	1420	1650	4690	1450	4640	5050	654	187	107	527	453	4360
MIN	77	201	243	506	477	518	156	61	48	56	107	102
AC-FT	16620	33820	89950	51960	94290	91850	19540	6400	4320	15440	11650	78340
CFSM	.81	1.70	4.37	2.52	5.07	4.46	.98	.31	.22	.75	.57	3.93
IN.	.93	1.										

	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
MEAN	346	187	194	243	284	314	201	132	296	525	632	749		
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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1933 - 1998	
ANNUAL TOTAL	110396			259235			
ANNUAL MEAN	302			710		342	
HIGHEST ANNUAL MEAN						845	1960
LOWEST ANNUAL MEAN						136	1956
HIGHEST DAILY MEAN	4690	Dec 28		5050	Mar 21	40800	Sep 7 1933
LOWEST DAILY MEAN	19	Jun 8		48	Jun 30	6.6	Jun 6 1945
ANNUAL SEVEN-DAY MINIMUM	22	Jun 3		58	Jun 20	7.0	May 31 1945
INSTANTANEOUS PEAK FLOW				5170	Mar 21	45900	Sep 7 1933
INSTANTANEOUS PEAK STAGE				17.72	Mar 21	28.50	Sep 7 1933
ANNUAL RUNOFF (AC-FT)	219000			514200		247800	
ANNUAL RUNOFF (CFSM)	.90			2.12		1.02	
ANNUAL RUNOFF (INCHES)	12.26			28.79		13.87	
10 PERCENT EXCEEDS	609			1680		734	
50 PERCENT EXCEEDS	80			327		176	
90 PERCENT EXCEEDS	34			78		58	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

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 1997 TO SEPTEMBER 1998

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)
DEC 18...	0935	11.80	1620	337	5.70	12.5	140	9.2	23	9.0	25	4.9
APR 29...	0935	3.82	161	440	7.40	21.0	40	8.2	36	14	31	2.7
AUG 05...	0850	3.84	153	399	8.10	25.0	--	6.8	--	--	--	--
SEP 21...	0915	16.17	3920	131	7.30	23.0	200	6.7	11	3.8	6.1	2.6

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, 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)
DEC 18...	57	22	6.9	11	232	.03	.36	1.4	2.1	9.1	9.1
APR 29...	83	21	2.0	7.0	292	<.01	.82	.01	.60	2.5	2.3
AUG 05...	--	--	--	--	--	--	--	--	--	--	--
SEP 21...	22	8.5	.71	4.5	118	.01	.22	.07	.96	1.6	1.3

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)
DEC 18...	1300	3.9	<1.0	1.8	<1.0	450	<1	<.1	<1.0	76	8.3
APR 29...	138	1.3	<1.0	<1.0	<1.0	478	<1	<.1	1.2	100	<1.0
AUG 05...	294	2.7	<1.0	<1.0	<1.0	369	<1	<.1	2.0	--	2.8
SEP 21...	506	1.4	<1.0	1.3	2.4	435	1	<.1	1.2	34	6.3

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

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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 ft³/s, Oct. 3, 1967; minimum measured, 6.2 ft³/s, Feb. 8, 1989.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Time	Major Spring Instantaneous Discharge (cfs)	Time	Minor Spring Instantaneous Discharge (cfs)	Total Flow Measured (cfs)	Diversion by pumping (cfs)
Oct. 16	0845	49.0	1015	8.2	57.2	5.4
Dec. 08	1030	50.5	1135	9.6	60.1	6.1
Apr. 29	1045	62.3	1145	10	72.3	6.7
June 03	0830	40.4	0955	12	52.4	6.3
Aug. 19	0915	49.5	1045	8.2	57.7	6.8

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

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 1997 TO SEPTEMBER 1998

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)
APR 29...	1230	8.70	62	516	7.00	24.0	<5	3.9	69	11	16	.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 ORTHO TOTAL (MG/L) AS P (00665)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)	STRON- TIUM, DIS- SOLVED (UG/L) AS SR (01080)
APR 29...	84	33	.27	15	340	<.01	3.3	<.01	<.20	.05	.06	1300

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

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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 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--April to September 1998 (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 CURRENT PERIOD.--Maximum gage height, 11.40 ft, Sept. 22; minimum .05 ft below NGVD, June 22.

GAGE HEIGHT, FEET, PERIOD APRIL TO SEPTEMBER 1998

DAY	MAX APRIL	MIN APRIL	MAX MAY	MIN MAY	MAX JUNE	MIN JUNE	MAX JULY	MIN JULY	MAX AUGUST	MIN AUGUST	MAX SEPTEMBER	MIN SEPTEMBER
1	---	---	2.24	.59	1.79	.36	1.75	.15	1.90	.61	2.22	.38
2	---	---	1.55	.66	1.89	.39	1.43	.17	1.95	.56	2.57	.75
3	---	---	1.46	.57	1.66	.40	1.26	.07	2.02	.57	4.69	.87
4	---	---	1.88	.54	1.82	.33	1.48	.04	2.00	.46	2.43	.52
5	---	---	2.07	.58	1.97	.23	1.66	.08	2.25	.72	2.47	.67
6	---	---	1.83	.70	2.17	.24	2.07	.06	2.42	.61	2.82	.86
7	---	---	2.39	.65	2.09	.13	2.31	.04	2.60	.85	2.61	.87
8	2.68	1.61	2.72	.86	1.67	.08	2.25	.49	3.51	1.79	2.84	1.19
9	3.12	1.64	2.41	.54	2.21	.07	3.02	.38	2.43	1.03	2.73	1.45
10	2.32	1.49	2.76	.69	2.28	.15	3.08	.46	2.36	.80	2.56	1.26
11	1.81	1.31	2.24	.37	2.40	.18	2.60	.69	2.26	.70	2.29	.97
12	1.85	1.25	2.22	.29	2.22	.29	2.51	.69	2.00	.60	2.21	.77
13	2.20	1.22	2.05	.25	2.13	.24	2.57	.80	1.68	.51	2.23	.66
14	2.71	1.23	2.17	.25	2.24	.20	2.90	1.02	1.82	.44	2.04	.56
15	2.60	1.12	1.98	.23	2.12	.19	2.93	2.16	1.82	.44	2.10	.52
16	2.82	1.00	2.18	.23	2.22	.18	2.69	1.98	1.70	.41	2.50	.79
17	2.45	.91	2.50	.24	1.70	.15	2.68	1.86	2.24	1.19	3.00	.79
18	2.34	.87	2.03	.24	1.72	.13	2.50	1.42	2.33	1.04	2.97	1.15
19	2.75	.84	1.59	.24	1.88	.05	2.30	1.19	2.51	.78	5.32	2.49
20	1.88	.84	1.64	.20	2.06	.02	2.54	1.35	2.41	.94	8.47	5.27
21	1.93	.83	1.75	.19	2.08	.02	2.60	1.52	2.27	.83	10.83	8.47
22	1.97	.94	1.88	.18	2.03	-.05	3.07	1.64	2.38	.72	11.40	10.58
23	1.98	.86	2.43	.20	2.19	.04	3.00	1.40	2.25	.73	10.58	7.91
24	1.78	.76	2.33	.08	2.49	.11	2.61	1.14	2.22	.69	8.16	7.83
25	1.88	.73	2.53	.04	2.07	.06	2.51	1.01	2.18	.56	7.83	6.95
26	2.28	.66	2.85	.03	2.48	.03	2.48	.94	2.09	.57	9.53	7.33
27	2.44	.63	2.47	.06	2.46	.02	2.20	.94	2.10	.54	9.50	9.36
28	2.48	.58	2.90	.06	1.88	.09	1.99	.83	2.02	.47	9.37	8.35
29	2.33	.58	2.20	.30	1.54	.08	1.72	.80	2.15	.51	8.40	6.66
30	2.63	.58	2.05	.29	1.67	.03	2.06	.76	2.00	.55	6.66	5.43
31	---	---	1.74	.28	---	---	2.01	.74	2.44	.40	---	---
MONTH	---	---	2.90	.03	2.49	-.05	3.08	.04	3.51	.40	11.40	.38

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL--continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April to September 1998.

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 CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 513 microsiemens, July 3; bottom probe maximum, 532 microsiemens, July 3; top probe minimum, 91 microsiemens, Sept. 20; bottom probe minimum, 94 microsiemens, Sept. 19.

TEMPERATURE.--Top probe maximum, 29.0°C, July 28; bottom probe maximum, 29.0°C, July 28; top probe minimum, 19.8°C, Apr. 13; bottom probe minimum, 19.8°C, Apr. 13.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD APRIL TO SEPTEMBER 1998
(AT GAGE-HEIGHT OF 0.00 FT)

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	---	---	---	---	481	430	466	453	438	421	420	403
2	---	---	---	---	506	465	478	461	442	426	424	404
3	---	---	---	---	506	495	513	476	452	441	414	395
4	---	---	---	---	495	476	495	463	452	429	417	396
5	---	---	---	---	479	465	501	475	431	362	414	398
6	---	---	---	---	480	472	496	481	402	374	421	356
7	---	---	---	---	486	477	490	481	399	267	416	391
8	408	381	---	---	480	472	499	483	326	233	397	307
9	408	394	---	---	479	467	486	405	379	316	356	309
10	409	390	---	---	471	447	430	385	406	379	326	304
11	412	390	---	---	476	451	473	392	434	406	356	325
12	418	398	---	---	499	476	466	432	450	432	379	356
13	424	407	---	---	501	484	436	390	455	444	395	379
14	430	413	---	---	501	458	455	298	476	449	403	392
15	428	408	450	430	488	469	367	298	463	452	411	399
16	---	---	451	435	489	482	409	351	473	426	410	382
17	---	---	449	436	492	487	427	408	426	225	389	359
18	---	---	459	448	493	483	465	427	383	317	385	308
19	---	---	467	453	488	480	465	446	404	383	308	144
20	---	---	470	464	489	480	449	408	406	378	154	91
21	---	---	469	454	495	487	408	329	414	383	133	93
22	---	---	462	451	493	487	356	328	450	414	151	133
23	---	---	479	457	494	421	378	355	449	433	205	151
24	---	---	481	463	484	438	400	378	451	430	204	182
25	---	---	469	459	460	443	410	399	464	451	228	203
26	---	---	467	460	460	452	416	407	466	451	207	168
27	---	---	469	465	456	443	432	412	454	444	191	168
28	---	---	466	357	467	454	431	426	450	441	218	191
29	---	---	421	374	461	443	432	426	470	449	255	217
30	---	---	407	388	464	458	432	426	466	437	281	255
31	---	---	431	402	---	---	439	430	449	400	---	---
MONTH	---	---	---	---	506	421	513	298	476	225	424	91

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

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02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD APRIL TO SEPTEMBER 1998
(AT GAGE HEIGHT OF -1.50 FT)

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	---	---	471	448	496	435	486	458	460	424	438	412
2	---	---	478	441	528	472	500	460	466	420	446	416
3	---	---	461	439	527	494	532	467	474	438	432	402
4	---	---	476	443	522	478	501	463	478	437	437	410
5	---	---	483	434	513	464	520	475	442	365	439	414
6	---	---	449	424	501	456	527	474	422	376	443	375
7	---	---	439	374	504	477	511	472	421	264	434	403
8	---	---	456	417	502	469	522	481	321	237	410	337
9	---	---	468	438	498	470	510	408	385	314	377	328
10	---	---	469	441	495	453	452	375	420	374	349	319
11	---	---	474	445	498	441	492	383	450	402	369	336
12	---	---	479	444	519	474	497	420	462	423	401	357
13	---	---	475	439	518	480	460	394	480	441	412	388
14	---	---	480	448	522	463	479	307	481	449	420	397
15	---	---	477	453	510	463	373	301	483	448	427	410
16	---	---	479	450	508	479	353	304	486	424	432	391
17	---	---	480	447	516	478	340	305	433	232	407	366
18	438	418	490	462	518	482	379	318	396	319	403	320
19	438	418	487	454	509	477	371	333	429	384	---	---
20	438	408	492	463	509	475	369	320	432	376	---	---
21	428	403	489	463	514	480	341	252	426	379	---	---
22	423	394	482	455	517	486	293	252	464	409	---	---
23	420	398	508	461	514	412	314	274	466	438	---	---
24	432	407	502	471	500	446	342	291	471	429	---	---
25	441	418	491	467	483	442	340	313	482	450	---	---
26	456	422	493	463	488	451	346	318	492	463	---	---
27	460	440	492	469	484	449	460	324	482	451	---	---
28	465	445	486	354	511	460	458	416	475	444	---	---
29	470	447	438	380	504	445	455	413	489	455	---	---
30	478	448	427	392	491	453	456	415	488	446	---	---
31	---	---	445	402	---	---	462	429	470	408	---	---
MONTH	---	---	508	354	528	412	532	252	492	232	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD APRIL TO SEPTEMBER 1998
(AT GAGE-HEIGHT OF 0.00 FT)

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	---	---	---	---	27.2	25.1	27.9	26.2	28.1	26.8	27.5	26.2
2	---	---	---	---	27.5	25.7	28.8	26.5	28.3	26.5	26.7	26.2
3	---	---	---	---	28.0	26.0	28.0	26.8	27.9	26.7	26.5	26.0
4	---	---	---	---	28.1	26.2	27.8	26.3	27.3	26.6	27.1	26.1
5	---	---	---	---	28.3	26.4	27.1	26.5	27.1	26.0	27.4	26.1
6	---	---	---	---	28.4	26.7	27.3	26.2	27.3	26.0	27.5	26.2
7	---	---	---	---	28.1	26.6	26.8	26.2	27.3	25.9	27.1	26.4
8	22.8	22.1	---	---	27.9	26.4	27.7	25.8	26.8	25.6	26.8	25.9
9	23.2	22.5	---	---	27.5	26.1	27.1	26.4	27.6	26.3	26.5	26.1
10	23.2	22.1	---	---	27.9	26.2	26.5	26.0	28.0	26.7	26.6	26.0
11	22.1	20.9	---	---	28.4	26.5	27.6	26.1	28.3	26.7	26.6	25.9
12	21.2	20.1	---	---	28.5	26.7	27.7	26.6	28.6	26.9	26.3	25.4
13	21.0	19.8	---	---	28.3	26.7	26.9	26.2	28.7	27.0	26.3	25.2
14	21.0	20.0	---	---	28.2	26.8	26.9	25.8	28.5	26.9	26.2	24.9
15	21.5	20.1	25.9	24.3	28.5	26.9	26.1	25.7	27.8	26.9	26.1	25.2
16	22.4	20.7	25.6	23.7	28.4	26.7	26.2	25.8	28.3	26.7	26.1	25.3
17	---	---	25.4	23.7	28.8	26.7	26.6	25.7	27.9	25.9	26.0	25.6
18	---	---	25.6	23.8	28.6	26.7	27.4	26.1	28.0	26.8	26.0	25.5
19	---	---	25.9	24.3	28.0	26.9	27.4	26.8	28.0	27.1	25.5	25.1
20	---	---	26.3	24.2	28.5	26.5	27.4	26.6	27.3	26.5	25.4	25.2
21	---	---	26.1	24.4	28.1	26.7	27.2	26.2	27.1	26.3	25.5	25.0
22	---	---	26.3	24.5	28.1	26.2	27.1	26.1	27.0	26.2	26.0	25.4
23	---	---	26.3	24.5	28.2	26.3	27.4	26.2	27.4	26.2	26.6	25.9
24	---	---	26.2	24.7	28.1	26.4	28.0	26.7	27.7	26.4	26.5	26.2
25	---	---	26.6	24.7	27.3	26.5	28.4	27.2	28.0	26.4	26.6	26.0
26	---	---	26.3	25.0	27.3	26.2	28.7	27.4	28.2	26.3	26.0	25.6
27	---	---	25.7	25.1	26.8	25.8	28.9	27.6	28.1	26.5	26.0	25.6
28	---	---	25.2	24.5	27.7	25.5	29.0	27.5	28.5	26.8	26.4	25.9
29	---	---	25.8	24.3	28.0	26.1	28.7	27.4	28.6	27.1	26.6	26.1
30	---	---	25.4	25.0	28.2	26.2	28.7	27.0	28.0	26.8	26.5	26.3
31	---	---	26.6	24.7	---	---	28.3	26.9	27.6	26.5	---	---
MONTH	---	---	---	---	28.8	25.1	29.0	25.7	28.7	25.6	27.5	24.9

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
ALAFIA RIVER BASIN

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02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD APRIL TO SEPTEMBER 1998
(AT GAGE HEIGHT OF -1.50 FT)

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	---	---	23.9	22.9	27.2	25.1	27.9	26.1	28.1	26.8	27.5	26.2
2	---	---	24.1	22.3	27.5	25.7	28.8	26.5	28.2	26.5	26.7	26.2
3	---	---	24.0	22.0	28.0	26.0	28.0	26.8	27.9	26.7	26.5	26.0
4	---	---	22.9	22.0	28.1	26.1	27.8	26.3	27.3	26.6	27.1	26.1
5	---	---	23.0	21.7	28.3	26.4	27.1	26.5	27.1	26.0	27.4	26.1
6	---	---	23.8	21.9	28.4	26.7	27.3	26.2	27.2	26.0	27.5	26.2
7	---	---	24.5	22.6	28.1	26.6	26.8	26.2	27.3	25.9	27.1	26.4
8	22.8	22.1	25.2	23.6	27.9	26.4	27.7	25.8	26.8	25.6	26.7	25.9
9	23.2	22.5	26.0	24.5	27.5	26.1	27.1	26.4	27.6	26.3	26.5	26.1
10	23.2	22.1	25.9	24.7	27.9	26.2	26.5	26.0	28.0	26.7	26.6	26.0
11	22.1	20.9	26.2	24.8	28.4	26.5	27.6	26.1	28.2	26.7	26.6	25.9
12	21.3	20.1	26.0	24.3	28.5	26.7	27.7	26.6	28.6	26.9	26.3	25.4
13	21.0	19.8	25.9	23.9	28.3	26.7	26.9	26.2	28.7	27.0	26.3	25.2
14	21.0	20.0	25.9	24.0	28.2	26.8	26.9	25.8	28.5	26.9	26.2	24.9
15	21.6	20.1	25.9	24.3	28.4	26.9	26.1	25.7	27.8	26.9	26.1	25.2
16	22.4	20.7	25.6	23.7	28.4	26.7	26.2	25.8	28.3	26.7	26.1	25.3
17	23.4	21.6	25.4	23.7	28.7	26.7	26.6	25.7	27.9	25.9	26.0	25.6
18	24.2	22.3	25.6	23.8	28.6	26.7	27.4	26.1	28.0	26.8	26.0	25.5
19	24.5	23.0	25.9	24.3	28.0	26.9	27.4	26.8	28.0	27.0	25.5	25.1
20	24.2	23.5	26.2	24.2	28.5	26.5	27.4	26.6	27.3	26.5	25.4	25.2
21	24.2	23.2	26.1	24.4	28.1	26.7	27.2	26.2	27.1	26.3	25.5	25.0
22	23.9	22.5	26.2	24.5	28.1	26.2	27.1	26.1	27.0	26.2	26.0	25.4
23	22.9	21.6	26.3	24.5	28.2	26.3	27.4	26.2	27.4	26.2	26.6	25.9
24	22.3	20.8	26.2	24.7	28.1	26.4	28.0	26.7	27.7	26.3	26.5	26.2
25	22.0	20.1	26.5	24.7	27.3	26.5	28.4	27.2	27.9	26.4	26.5	26.1
26	21.9	20.3	26.3	25.0	27.2	26.2	28.7	27.4	28.2	26.3	26.1	25.6
27	22.7	20.8	25.7	25.1	26.7	25.8	28.9	27.6	28.1	26.5	26.0	25.6
28	23.5	21.5	25.1	24.5	27.7	25.5	29.0	27.5	28.4	26.8	26.4	25.9
29	23.8	22.3	25.8	24.3	28.0	26.1	28.7	27.4	28.6	27.1	26.5	26.1
30	23.6	23.0	25.3	25.0	28.2	26.2	28.7	27.0	28.0	26.8	26.5	26.3
31	---	---	26.6	24.7	---	---	28.3	26.9	27.6	26.5	---	---
MONTH	---	---	26.6	21.7	28.7	25.1	29.0	25.7	28.7	25.6	27.5	24.9

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS

02301750 DELANEY CREEK NEAR TAMPA, FL

LOCATION.--Lat 27°55'32", long 82°21'52", in SW¹/₄ 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 mi².

PERIOD OF RECORD.--October 1984 to current year.

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

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	65	8.1	e28	11	85	10	.42	2.0	4.1	9.7	11
2	54	43	7.8	e18	12	50	9.4	.41	1.8	3.2	11	9.0
3	42	29	7.9	e18	24	35	8.3	.40	1.4	2.5	11	15
4	35	22	36	17	25	27	7.3	.42	1.0	2.1	9.6	22
5	27	14	18	16	25	24	6.5	.96	e1.2	2.2	9.7	26
6	20	10	14	14	e24	21	5.9	1.1	1.5	1.9	11	30
7	14	10	12	13	e23	17	5.5	1.2	.82	2.3	16	34
8	12	7.7	9.6	39	e21	14	5.1	1.3	.48	5.0	38	76
9	10	5.7	7.5	43	e20	18	4.9	1.2	.53	8.2	21	48
10	8.3	4.1	7.4	32	16	23	4.6	1.0	1.1	25	15	27
11	7.0	4.0	11	24	14	23	4.5	.83	1.0	29	12	19
12	5.6	3.9	5.0	20	13	18	4.6	.63	.95	26	11	14
13	5.3	8.0	24	18	12	15	4.5	.46	.72	57	9.6	11
14	4.7	63	77	16	12	13	4.1	.35	.53	48	9.6	9.8
15	2.9	45	e64	17	13	12	3.0	.27	.38	57	8.4	7.9
16	3.7	31	e52	23	130	9.9	2.4	.22	.36	56	13	6.8
17	3.7	20	e50	20	118	8.9	2.1	.63	.19	43	30	6.3
18	2.7	12	e44	17	e84	8.2	1.8	.41	.01	35	20	7.0
19	2.5	8.4	e29	15	e57	88	1.6	.38	.03	28	18	34
20	2.3	6.9	e20	13	160	e76	1.5	.27	.08	25	53	113
21	2.1	7.7	e18	12	103	e57	1.4	.20	.02	23	41	140
22	1.8	7.0	e15	11	73	e48	1.6	.10	.00	45	23	86
23	1.5	8.5	e12	43	77	e39	1.7	.06	.03	42	20	65
24	1.3	7.4	e11	58	59	32	2.0	.02	7.1	28	15	52
25	1.2	6.4	e12	e44	43	26	2.7	.00	14	20	13	51
26	1.0	5.8	e37	e34	34	22	2.4	.00	7.5	19	11	114
27	15	5.6	e236	e27	29	23	.84	.00	9.8	16	9.1	97
28	33	5.4	e148	e20	27	17	.66	.60	12	13	8.2	71
29	24	5.3	e92	e17	---	13	.48	.52	7.1	11	10	55
30	15	6.8	e61	e13	---	12	.43	1.5	5.1	11	9.7	41
31	26	---	e42	e12	---	11	---	2.1	---	9.1	9.7	---
TOTAL	463.6	478.6	1188.3	712	1259	886.0	111.81	17.96	78.73	697.6	506.3	1298.8
MEAN	15.0	16.0	38.3	23.0	45.0	28.6	3.73	.58	2.62	22.5	16.3	43.3
MAX	79	65	236	58	160	88	10	2.1	14	57	53	140
MIN	1.0	3.9	5.0	11	11	8.2	.43	.00	.00	1.9	8.2	6.3
CFSM	.93	.99	2.38	1.43	2.79	1.78	.23	.04	.16	1.40	1.01	2.69
IN.	1.07	1.11	2.75	1.65	2.91	2.05	.26	.04	.18	1.61	1.17	3.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1998, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	7.43	3.51	4.32	5.74	6.80	8.67	3.93	2.72	8.15	14.5	16.5	24.2		
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1985 - 1998
ANNUAL TOTAL	5106.82	7698.70	
ANNUAL MEAN	14.0	21.1	8.88
HIGHEST ANNUAL MEAN			21.1
LOWEST ANNUAL MEAN			4.09
HIGHEST DAILY MEAN	588	e236	588
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.05	.00
INSTANTANEOUS PEAK FLOW		302	633
INSTANTANEOUS PEAK STAGE		6.78	9.99
ANNUAL RUNOFF (CFSM)	.87	1.31	.55
ANNUAL RUNOFF (INCHES)	11.80	17.79	7.49
10 PERCENT EXCEEDS	29	53	21
50 PERCENT EXCEEDS	4.0	12	2.6
90 PERCENT EXCEEDS	.08	.65	.21

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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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 mi², 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.

GAGE.--Nonrecording gage. 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 poor. Discharge measurements made at this site are used in conjunction with those made downstream from Crystal Springs (station 02302000) to determine spring flow.

REVISIONS.--The maximum discharge for water year 1997 has been revised to 860 ft³/s, Sept. 29, 1997; revised daily discharges, in cubic feet per second, for periods in September 1997 are given below. These figures supercede those published in the report for 1997.

Sept. 11....34e	Sept. 16....30e	Sept. 21....27e	Sept. 26....35e
12....33e	17....29e	22....27e	27....300e
13....32e	18....29e	23....26e	28....500e
14....32e	19....28e	24....26e	29....860e
15....31e	20....28e	25....28e	30....840e
SEPTEMBER TOTAL 3343	MEAN 111	MAX 860	MIN 26
WTR YR 1997 TOTAL 12898.9			

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e820	360	415	1010	e170	e860	e170	25	16	14	15	37
2	748	495	375	972	e160	e850	e145	23	18	14	15	37
3	e650	454	360	935	242	e795	e130	23	19	14	15	e44
4	e450	436	e368	900	e280	e720	e115	23	17	14	17	e52
5	e360	415	375	865	e260	e660	e100	23	16	16	17	e70
6	e210	e350	310	773	e240	e610	e90	21	16	16	18	e46
7	e170	e300	278	773	e220	e570	e74	21	16	14	18	36
8	e140	e250	247	900	e200	e520	e60	21	16	17	18	36
9	e120	e200	233	1010	e185	e550	56	21	16	14	18	36
10	e100	e175	310	935	e165	e540	e52	21	16	14	20	39
11	81	e150	1470	718	e155	e510	e49	20	16	14	20	39
12	57	e135	2520	558	e145	e480	e47	20	16	14	20	39
13	52	e125	2700	509	e135	e450	e45	20	16	16	21	39
14	38	e180	2670	467	e140	e430	e44	20	14	16	21	36
15	39	278	2240	445	e250	e420	e43	18	14	16	21	44
16	36	278	1740	407	e1300	e410	e42	18	14	22	23	44
17	36	247	1420	e380	e1450	e400	e41	18	14	16	23	47
18	36	219	1470	e360	e1500	e400	e39	18	14	16	23	47
19	38	182	1420	e340	e1450	e530	38	18	14	16	25	e56
20	42	e149	e1380	e320	1340	e560	e36	20	14	32	e24	e100
21	42	129	1340	e295	1290	e570	e34	18	14	16	e25	e240
22	39	111	1290	e305	e1200	e525	e32	18	14	16	e24	e190
23	36	88	1200	e330	e1050	e490	e32	18	14	16	e23	e150
24	34	74	1250	e315	e900	e450	31	18	13	16	22	e170
25	32	68	1200	e290	805	e400	31	18	13	16	e27	e240
26	30	62	1160	e260	e780	e370	31	18	13	16	e29	e350
27	30	57	1130	e240	e680	e340	29	20	13	16	30	e450
28	57	88	1160	e220	e720	300	27	18	12	15	32	e400
29	e50	103	1130	e205	---	256	27	18	12	15	32	e310
30	48	111	1090	e195	---	228	25	18	14	15	34	e250
31	e52	---	1050	e180	---	e190	---	16	---	15	37	---
TOTAL	4673	6269	35301	16412	17412	15384	1715	610	444	497	707	3674
MEAN	151	209	1139	529	622	496	57.2	19.7	14.8	16.0	22.8	122
MAX	820	495	2700	1010	1500	860	170	25	19	32	37	450
MIN	30	57	233	180	135	190	25	16	12	14	15	36
AC-FT	9270	12430	70020	32550	34540	30510	3400	1210	881	986	1400	7290
CFSM	1.84	2.55	13.9	6.46	7.58	6.05	.70	.24	.18	.20	.28	1.49
IN.	2.12	2.84	16.01	7.45	7.90	6.98	.78	.28	.20	.23	.32	1.67

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1998, BY WATER YEAR (WY)

MEAN	72.8	45.0	108	75.0	69.4	79.8	63.8	18.1	20.6	54.4	103	164
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	16.8
(WY)	1992	1991	1991	1991	1991	1991	1997	1994	1993	1993	1993	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1984 - 1998
ANNUAL TOTAL	57556.9	103098	
ANNUAL MEAN	158	282	72.8
HIGHEST ANNUAL MEAN			282
LOWEST ANNUAL MEAN			18.0
HIGHEST DAILY MEAN	2700	2700	2700
LOWEST DAILY MEAN	5.0	12	3.4
ANNUAL SEVEN-DAY MINIMUM	6.6	13	5.0
ANNUAL RUNOFF (AC-FT)	114200	204500	52730
ANNUAL RUNOFF (CFSM)	1.92	3.44	
ANNUAL RUNOFF (INCHES)	26.11	46.77	12.06
10 PERCENT EXCEEDS	363	900	164
50 PERCENT EXCEEDS	16	57	23
90 PERCENT EXCEEDS	8.0	16	11

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02301990 HILLSBOROUGH RIVER ABOVE CRYSTAL SPRINGS, NEAR ZEPHYRHILLS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	54.05	54.20	55.35	---	---	---	52.20	51.95	51.90	51.95	52.55
2	54.91	54.40	54.10	55.30	---	---	---	52.15	52.00	51.90	51.95	52.55
3	---	54.35	54.05	55.25	53.75	---	---	52.15	52.02	51.90	51.95	---
4	---	54.30	---	55.20	---	---	---	52.15	51.98	51.90	52.00	---
5	---	54.20	54.10	55.15	---	---	---	52.15	51.95	51.95	52.00	---
6	---	---	53.90	55.00	---	---	---	52.10	51.95	51.95	52.05	---
7	---	---	53.80	55.00	---	---	---	52.10	51.95	51.90	52.05	52.65
8	---	---	53.70	55.20	---	---	---	52.10	51.95	51.98	52.05	52.65
9	---	---	53.65	55.35	---	---	52.76	52.10	51.95	51.90	52.05	52.65
10	---	---	53.90	55.25	---	---	---	52.10	51.95	51.90	52.10	52.60
11	52.90	---	55.90	54.90	---	---	---	52.06	51.95	51.90	52.10	52.60
12	52.70	---	56.80	54.60	---	---	---	52.06	51.95	51.90	52.10	52.60
13	52.65	---	57.00	54.50	---	---	---	52.06	51.95	51.95	52.15	52.60
14	52.55	---	56.90	54.40	---	---	---	52.06	51.90	51.95	52.15	52.65
15	52.45	53.80	56.60	54.35	---	---	---	52.00	51.90	51.95	52.15	52.70
16	52.40	53.80	56.17	54.25	---	---	---	52.00	51.90	52.13	52.20	52.70
17	52.40	53.70	55.85	---	---	---	---	52.00	51.90	51.95	52.20	52.75
18	52.40	53.60	55.90	---	---	---	---	52.00	51.90	51.95	52.20	52.75
19	52.55	53.45	55.38	---	---	---	52.50	52.00	51.90	51.95	52.25	---
20	52.50	---	---	---	55.75	---	---	52.06	51.90	52.38	---	---
21	52.50	53.20	55.75	---	55.70	---	---	52.00	51.90	51.95	---	---
22	52.45	53.10	55.70	---	---	---	---	52.00	51.90	51.95	---	---
23	52.40	52.95	55.60	---	---	---	---	52.00	51.90	51.95	---	---
24	52.35	52.85	55.65	---	---	---	52.35	52.00	51.85	51.95	52.20	---
25	52.30	52.80	55.60	---	55.05	---	52.35	52.00	51.85	51.95	---	---
26	52.25	52.75	55.55	---	---	---	52.35	52.00	51.85	51.95	---	---
27	52.25	52.70	55.50	---	---	---	52.30	52.06	51.85	51.95	52.40	---
28	52.70	52.95	55.55	---	---	53.95	52.25	52.00	51.80	51.95	52.45	---
29	---	53.05	55.50	---	---	53.80	52.25	52.00	51.80	51.95	52.45	---
30	52.60	53.10	55.45	---	---	53.70	52.20	52.00	51.90	51.95	52.50	---
31	---	---	55.40	---	---	---	---	51.95	---	51.95	52.55	---
MEAN	---	---	---	---	---	---	---	52.05	51.91	51.96	---	---
MAX	---	---	---	---	---	---	---	52.20	52.02	52.38	---	---
MIN	---	---	---	---	---	---	---	51.95	51.80	51.90	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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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 1997 TO SEPTEMBER 1998

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 25...	1230	52.80	68	244	7.90	17.5	6.0
DEC 16...	1110	56.17	1740	88	5.81	13.5	8.0
APR 21...	1435	--	E34	358	6.80	22.0	4.9
JUN 03...	1220	52.05	19	378	8.20	23.0	4.5
AUG 20...	1119	--	E24	375	6.80	23.0	5.0
SEP 23...	1210	--	E150	201	5.10	23.5	4.7

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 25...	<.01	.36	.04	.91	.21	.20
DEC 16...	<.01	.04	.10	.76	.27	.30
APR 21...	<.01	1.2	.03	.22	.08	.10
JUN 03...	<.01	1.4	.02	<.20	.06	.07
AUG 20...	<.01	1.3	.04	.33	.07	.08
SEP 23...	.01	.29	.12	1.0	.46	.44

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02302000 CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°10'30", long 82°11'20", in SE¹/₄ 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.--437 measurements (1923, 1933, 1934-98), 55.6 ft³/s, 36.0 mg/d.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 147 ft³/s, July 19, 1941; minimum measured, 20 ft³/s, July 1, 1946.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Time	Hillsborough River		Difference or spring flow (cfs)
		Below Springs (cfs)	Above Springs (cfs)	
Apr. 09	1403	115	54	61
June 04	1300	73	18	55
Aug. 24	1235	76	22	54

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN
02302000 CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL--Continued

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1923, 1946, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	SULFATE DIS- SOLVED (MG/L) AS SO4) (00945)
APR 21...	1503	345	6.19	24.0	<5	3.2	57	3.9	5.4	.4	8.7
JUN 03...	1205	340	7.20	23.0	--	3.6	--	--	--	--	--
AUG 20...	1150	338	7.10	22.5	--	3.9	--	--	--	--	--
SEP 23...	1230	343	7.80	22.5	<5	3.8	57	3.9	5.0	.3	8.8

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)
APR 21...	9.8	.11	10	202	<.01	2.2	.02	<.20	.04	.03	200
JUN 03...	--	--	--	--	<.01	2.3	.01	<.20	.02	.04	--
AUG 20...	--	--	--	--	<.01	2.6	.02	<.20	.03	.04	--
SEP 23...	9.9	.11	11	200	<.01	2.4	.02	<.20	.05	.04	210

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL

LOCATION.--Lat 28°08'25", long 82°09'00", in NW¹/₄ 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 mi², 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	870	1180	83	630	74	945	82	40	6.0	20	23	30
2	622	822	77	407	93	768	75	31	5.1	24	66	36
3	390	498	62	300	584	444	71	22	4.9	16	49	32
4	275	293	607	232	511	292	64	19	5.3	11	39	37
5	218	211	980	193	303	213	58	19	6.1	8.9	32	181
6	185	170	783	177	205	182	55	20	4.5	8.1	42	183
7	145	140	474	158	170	155	51	17	3.0	9.2	239	100
8	123	119	266	409	146	123	44	16	2.5	18	155	74
9	108	99	213	573	120	700	46	15	2.3	26	139	77
10	88	87	312	375	104	527	44	24	4.5	27	93	99
11	83	81	955	245	102	276	38	16	8.7	27	57	66
12	72	76	1740	196	94	199	36	14	10	27	44	49
13	64	86	2230	164	83	160	35	12	9.1	43	34	42
14	56	559	2320	154	91	127	36	9.6	7.2	64	29	37
15	54	683	1780	150	88	107	31	9.5	4.3	131	26	41
16	48	530	1410	215	695	96	30	9.7	4.3	230	25	38
17	46	332	1090	181	1370	83	29	8.4	4.6	235	131	35
18	47	210	797	133	1010	80	29	7.1	4.2	104	103	34
19	50	164	506	116	781	532	25	6.8	3.8	72	69	88
20	47	136	350	108	1020	1600	23	7.0	5.3	239	57	407
21	41	119	259	95	1020	1250	23	6.0	9.5	229	121	1160
22	37	108	206	94	872	1010	22	7.2	7.9	144	69	1220
23	33	99	178	202	869	824	22	6.4	6.9	90	67	1230
24	32	91	163	403	831	584	21	5.6	6.3	66	54	1470
25	36	82	161	269	620	369	23	5.5	6.2	55	45	1340
26	33	75	357	174	371	240	21	5.0	13	43	38	1400
27	55	70	2580	152	274	184	25	5.5	11	35	32	1250
28	185	68	2510	126	307	149	22	6.1	8.3	30	28	966
29	138	67	1640	100	---	136	18	12	8.8	30	58	768
30	101	74	1300	91	---	115	19	7.5	7.1	34	57	494
31	259	---	964	86	---	94	---	6.8	---	33	41	---
TOTAL	4541	7329	27353	6908	12808	12564	1118	396.7	190.7	2129.2	2062	12984
MEAN	146	244	882	223	457	405	37.3	12.8	6.36	68.7	66.5	433
MAX	870	1180	2580	630	1370	1600	82	40	13	239	239	1470
MIN	32	67	62	86	74	80	18	5.0	2.3	8.1	23	30
AC-FT	9010	14540	54250	13700	25400	24920	2220	787	378	4220	4090	25750
CFSM	1.33	2.22	8.02	2.03	4.16	3.68	.34	.12	.06	.62	.60	3.93
IN.	1.54	2.48	9.25	2.34	4.33	4.25	.38	.13	.06	.72	.70	4.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1998, BY WATER YEAR (WY)

	MEAN	76.4	37.2	51.7	53.3	64.7	102	38.8	26.6	67.9	106	164	197
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1952 - 1998
ANNUAL TOTAL	56958.83	90383.6	
ANNUAL MEAN	156	248	82.2
HIGHEST ANNUAL MEAN			257
LOWEST ANNUAL MEAN			23.1
HIGHEST DAILY MEAN	2580	Dec 27	5080
LOWEST DAILY MEAN	.57	Jun 4	.00
ANNUAL SEVEN-DAY MINIMUM	.83	Feb 27	.00
INSTANTANEOUS PEAK FLOW		3670	Dec 27
INSTANTANEOUS PEAK STAGE		80.41	Dec 27
ANNUAL RUNOFF (AC-FT)	113000	179300	59570
ANNUAL RUNOFF (CFSM)	1.42	2.25	.75
ANNUAL RUNOFF (INCHES)	19.26	30.57	10.16
10 PERCENT EXCEEDS	320	807	191
50 PERCENT EXCEEDS	26	83	25
90 PERCENT EXCEEDS	4.5	8.2	6.0

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77.73	78.41	72.82	76.56	72.72	77.92	72.82	72.31	71.70	71.93	71.90	72.05
2	76.75	77.56	72.75	75.45	72.90	77.36	72.72	72.16	71.67	72.01	72.59	72.15
3	75.48	76.11	72.55	74.76	76.57	75.83	72.67	71.99	71.66	71.84	72.36	72.08
4	74.64	74.77	76.06	74.26	76.23	74.77	72.58	71.92	71.67	71.69	72.21	72.17
5	74.17	74.10	78.03	73.95	74.84	74.12	72.49	71.94	71.69	71.63	72.09	73.79
6	73.88	73.73	77.43	73.80	74.05	73.85	72.45	71.96	71.63	71.61	72.22	73.85
7	73.50	73.45	75.97	73.63	73.74	73.60	72.39	71.91	71.56	71.63	74.34	73.02
8	73.27	73.24	74.56	75.39	73.51	73.28	72.28	71.89	71.53	71.85	73.60	72.72
9	73.12	73.02	74.12	76.54	73.25	76.98	72.31	71.85	71.51	72.03	73.43	72.75
10	72.89	72.87	74.83	75.37	73.08	76.27	72.29	72.06	71.60	72.05	72.94	73.02
11	72.82	72.80	77.43	74.40	73.05	74.64	72.20	71.90	71.75	72.04	72.48	72.60
12	72.69	72.74	78.81	73.98	72.95	74.00	72.17	71.84	71.79	72.02	72.29	72.36
13	72.58	72.85	79.29	73.68	72.83	73.65	72.16	71.81	71.75	72.30	72.11	72.25
14	72.47	76.29	79.38	73.59	72.92	73.32	72.17	71.74	71.69	72.60	72.03	72.17
15	72.44	77.02	78.86	73.55	72.89	73.10	72.10	71.74	71.57	73.38	71.97	72.24
16	72.35	76.33	78.43	74.14	76.70	72.98	72.08	71.75	71.57	74.27	71.95	72.19
17	72.31	75.06	77.96	73.83	78.68	72.83	72.06	71.71	71.58	74.30	73.35	72.13
18	72.33	74.09	77.22	73.38	78.09	72.78	72.07	71.67	71.56	73.07	73.06	72.12
19	72.38	73.68	76.00	73.20	77.42	75.80	71.99	71.67	71.53	72.68	72.65	72.84
20	72.34	73.41	75.09	73.12	78.06	78.98	71.95	71.68	71.58	74.34	72.48	75.33
21	72.24	73.24	74.47	72.97	78.12	78.51	71.95	71.65	71.72	74.26	73.24	78.38
22	72.18	73.11	74.06	72.96	77.76	78.09	71.95	71.69	71.67	73.48	72.65	78.48
23	72.10	73.01	73.81	73.92	77.74	77.59	71.95	71.67	71.63	72.90	72.62	78.49
24	72.08	72.92	73.68	75.58	77.62	76.58	71.92	71.65	71.60	72.61	72.43	78.81
25	72.14	72.82	73.65	74.58	76.74	75.34	71.98	71.65	71.60	72.44	72.31	78.65
26	72.10	72.73	75.14	73.77	75.35	74.35	71.94	71.64	71.76	72.27	72.19	78.73
27	72.42	72.67	79.24	73.57	74.63	73.87	72.02	71.66	71.74	72.14	72.09	78.52
28	73.87	72.64	79.52	73.31	74.86	73.54	71.96	71.69	71.65	72.04	72.01	77.99
29	73.43	72.61	78.71	73.02	---	73.41	71.88	71.87	71.66	72.04	72.48	77.37
30	73.04	72.72	78.28	72.92	---	73.19	71.91	71.74	71.60	72.12	72.49	76.11
31	74.05	---	77.70	72.86	---	72.96	---	71.72	---	72.09	72.24	---
MEAN	73.22	74.00	76.32	74.07	75.26	74.95	72.18	71.81	71.64	72.51	72.54	74.51
MAX	77.73	78.41	79.52	76.56	78.68	78.98	72.82	72.31	71.79	74.34	74.34	78.81
MIN	72.08	72.61	72.55	72.86	72.72	72.78	71.88	71.64	71.51	71.61	71.90	72.05
CAL YR 1997		MEAN 72.90	MAX 79.52	MIN 71.55								
WTR YR 1998		MEAN 73.58	MAX 79.52	MIN 71.51								

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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 1997 TO SEPTEMBER 1998

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)
DEC							
16...	1150	78.43	1410	112	5.20	13.0	7.7
APR							
21...	1345	71.96	23	433	6.43	22.0	5.6
JUN							
03...	1249	71.66	4.9	660	7.10	25.0	3.8
AUG							
20...	1210	72.49	58	336	6.90	25.5	5.9
SEP							
23...	1250	78.50	1240	93	5.30	24.5	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)
DEC						
16...	.01	.18	.10	.98	.66	.67
APR						
21...	<.01	.64	.06	.70	.44	.35
JUN						
03...	.01	2.0	.06	.64	.36	.34
AUG						
20...	.03	.65	.07	.99	.96	.82
SEP						
23...	.01	.08	.07	1.0	.66	.63

HILLSBOROUGH RIVER BASIN

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 mi², 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).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2160	1560	196	2380	324	2100	425	129	81	74	104	121
2	1560	1620	186	1670	308	2600	384	136	78	88	130	119
3	1110	1090	174	1380	811	1740	330	119	77	83	e120	130
4	837	794	714	1200	909	1230	293	112	76	75	e110	142
5	671	667	1420	1080	727	1010	275	112	75	70	e120	240
6	577	583	1240	983	582	869	245	111	74	73	119	231
7	465	505	899	905	530	759	219	106	71	74	188	185
8	373	435	624	1140	484	672	196	103	70	77	199	167
9	318	375	535	1440	426	1100	186	100	69	90	183	183
10	265	323	676	1220	381	1310	178	106	70	98	164	197
11	232	283	1550	980	353	920	166	105	72	98	141	175
12	203	250	3570	860	328	783	154	98	75	98	131	154
13	181	239	5070	772	301	717	149	94	75	123	124	141
14	160	698	5840	705	304	651	144	90	74	141	121	134
15	147	975	4810	660	317	596	138	87	72	225	121	138
16	139	833	3990	697	1020	547	133	87	70	300	123	141
17	133	663	3280	662	2790	484	131	87	70	350	154	135
18	133	506	2510	588	3080	435	129	85	69	234	171	132
19	139	429	1780	534	2220	896	125	83	69	195	155	157
20	137	363	1390	495	2760	3240	119	82	69	389	147	320
21	127	314	1180	453	3310	3520	118	80	70	394	167	598
22	119	279	1030	425	2730	2760	116	79	72	306	159	e1000
23	112	253	918	516	2250	2100	115	80	70	217	158	e1700
24	107	231	840	805	2130	1550	113	78	70	173	147	e1900
25	107	209	800	695	1720	1110	113	77	70	152	135	e1700
26	106	193	987	563	1270	860	113	77	70	134	128	e1500
27	117	179	4020	500	1040	725	110	81	79	119	122	e1300
28	278	167	6900	446	e1500	636	118	81	75	109	118	e1200
29	272	161	4880	394	---	581	108	85	73	107	124	e1100
30	217	177	4000	362	---	518	109	86	72	110	136	e858
31	329	---	3240	350	---	454	---	84	---	112	128	---
TOTAL	11831	15354	69249	25860	34905	37473	5252	2920	2177	4888	4347	16198
MEAN	382	512	2234	834	1247	1209	175	94.2	72.6	158	140	540
MAX	2160	1620	6900	2380	3310	3520	425	136	81	394	199	1900
MIN	106	161	174	350	301	435	108	77	69	70	104	119
MED	203	369	1390	697	860	869	136	87	72	112	131	184
CFSM	1.73	2.33	10.2	3.79	5.67	5.49	.80	.43	.33	.72	.64	2.45
IN.	2.00	2.60	11.71	4.37	5.90	6.34	.89	.49	.37	.83	.74	2.74

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1998, BY WATER YEAR (WY)

MEAN	265	138	167	179	194	286	177	101	180	312	449	541
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	55.3	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1940 - 1998
ANNUAL TOTAL	139009	230454	
ANNUAL MEAN	381	631	249
HIGHEST ANNUAL MEAN			745
LOWEST ANNUAL MEAN			86.4
HIGHEST DAILY MEAN	6900	Dec 28	12300
LOWEST DAILY MEAN	52	Jun 24	40
ANNUAL SEVEN-DAY MINIMUM	53	Jun 21	42
INSTANTANEOUS PEAK FLOW			12600
INSTANTANEOUS PEAK STAGE			14.22
ANNUAL RUNOFF (CFSM)	1.73	2.87	15.33
ANNUAL RUNOFF (INCHES)	23.51	38.97	15.40
10 PERCENT EXCEEDS	813	1580	539
50 PERCENT EXCEEDS	86	219	117
90 PERCENT EXCEEDS	58	78	69

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.77	8.08	1.83	10.22	2.59	9.52	3.12	1.36	.95	.88	1.15	1.29
2	8.19	8.34	1.76	8.55	2.50	10.64	2.91	1.41	.93	1.02	1.35	1.28
3	6.47	6.36	1.68	7.58	5.07	8.70	2.62	1.28	.92	.97	---	1.37
4	5.21	5.01	4.50	6.87	5.56	6.97	2.41	1.22	.90	.89	---	1.46
5	4.40	4.37	7.72	6.31	4.68	6.04	2.31	1.22	.90	.85	---	2.09
6	3.90	3.94	7.00	5.90	3.93	5.37	2.13	1.21	.89	.87	1.28	2.05
7	3.33	3.53	5.50	5.54	3.65	4.84	1.97	1.17	.86	.88	1.76	1.75
8	2.86	3.18	4.15	6.55	3.42	4.40	1.82	1.14	.85	.91	1.84	1.64
9	2.56	2.87	3.68	7.79	3.13	6.36	1.76	1.12	.84	1.03	1.74	1.74
10	2.25	2.58	4.42	6.93	2.90	7.26	1.71	1.17	.85	1.10	1.61	1.83
11	2.05	2.36	7.66	5.88	2.75	5.61	1.62	1.16	.87	1.10	1.45	1.69
12	1.87	2.16	11.91	5.33	2.61	4.96	1.54	1.10	.90	1.10	1.37	1.54
13	1.73	2.09	13.10	4.90	2.46	4.63	1.51	1.07	.90	1.31	1.32	1.45
14	1.58	4.50	13.51	4.57	2.48	4.29	1.48	1.03	.89	1.45	1.29	1.40
15	1.50	5.86	12.97	4.34	2.55	4.01	1.43	1.00	.86	2.01	1.29	1.43
16	1.43	5.20	12.35	4.53	5.86	3.75	1.39	1.01	.85	2.45	1.31	1.45
17	1.39	4.35	11.61	4.35	10.85	3.43	1.38	1.00	.85	2.73	1.54	1.40
18	1.39	3.54	10.47	3.96	11.36	3.18	1.36	.99	.84	2.06	1.66	1.38
19	1.43	3.15	8.83	3.67	9.92	5.28	1.33	.97	.84	1.81	1.55	1.55
20	1.42	2.80	7.60	3.48	10.87	11.47	1.28	.96	.84	2.94	1.50	2.55
21	1.34	2.53	6.76	3.27	11.65	11.89	1.27	.94	.85	2.96	1.63	4.01
22	1.28	2.33	6.10	3.13	10.84	10.90	1.25	.93	.87	2.48	1.58	---
23	1.22	2.18	5.60	3.59	9.99	9.65	1.25	.94	.85	1.96	1.57	---
24	1.18	2.04	5.23	5.06	9.72	8.13	1.23	.93	.85	1.67	1.50	---
25	1.18	1.91	5.04	4.51	8.68	6.48	1.23	.92	.85	1.53	1.40	---
26	1.17	1.80	5.91	3.83	7.11	5.33	1.23	.91	.85	1.40	1.35	---
27	1.26	1.71	11.22	3.50	6.17	4.67	1.21	.95	.94	1.28	1.30	---
28	2.32	1.64	13.93	3.23	---	4.21	1.27	.95	.90	1.19	1.27	---
29	2.29	1.60	13.01	2.97	---	3.93	1.19	.99	.88	1.18	1.32	---
30	1.96	1.70	12.35	2.80	---	3.59	1.19	1.00	.87	1.21	1.41	---
31	2.53	---	11.55	2.73	---	3.27	---	.98	---	1.22	1.35	---
MEAN	2.66	3.46	8.03	5.03	---	6.22	1.65	1.07	.87	1.50	---	---
MAX	9.77	8.34	13.93	10.22	---	11.89	3.12	1.41	.95	2.96	---	---
MIN	1.17	1.60	1.68	2.73	---	3.18	1.19	.91	.84	.85	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN
02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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 25...	1155	1.92	211	290	6.50	19.0	7.1
DEC 16...	0930	12.42	4130	99	5.70	13.5	8.6
APR 21...	1300	1.27	118	383	6.40	22.0	6.6
JUN 03...	1100	.93	79	376	6.90	24.0	6.9
AUG 20...	1033	1.47	143	324	6.80	24.0	6.3
SEP 23...	1113	8.40	1670	112	5.40	24.0	6.3

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 25...	<.01	.84	.03	.86	.32	.31
DEC 16...	<.01	.13	.09	.93	.50	.52
APR 21...	<.01	1.6	.03	<.20	.11	.11
JUN 03...	<.01	1.8	.01	<.20	.04	.06
AUG 20...	.01	1.3	.02	.45	.43	.40
SEP 23...	.01	.19	.06	1.0	.63	.57

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02303205 BAKER CREEK AT MCINTOSH ROAD NEAR ANTIOCH, FL

LOCATION.--Lat 28°01'41", long 82°14'44", in SE¹/₄ 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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	137	22	81	23	168	31	11	2.2	3.2	8.1	11
2	110	86	18	62	31	119	29	8.1	1.6	4.3	6.6	22
3	69	52	17	52	99	63	28	5.0	1.8	1.6	6.9	28
4	47	38	149	47	76	41	23	4.3	1.6	.80	13	24
5	34	31	166	43	46	34	19	7.2	1.3	.46	9.8	23
6	28	28	93	40	36	29	17	14	1.4	.40	26	19
7	27	26	60	39	31	27	16	9.7	1.2	.68	98	19
8	27	23	44	104	26	27	15	8.0	.77	1.6	100	22
9	25	19	38	117	23	117	14	7.1	.28	1.6	55	22
10	22	17	48	74	22	67	13	5.1	2.3	3.8	37	25
11	20	26	162	55	21	36	13	4.2	3.3	4.5	29	21
12	17	30	229	45	20	27	12	3.4	2.1	5.4	21	16
13	14	34	419	39	20	26	11	2.7	1.8	9.1	16	13
14	13	98	384	37	21	25	11	2.2	1.4	11	14	9.0
15	13	99	263	38	22	25	10	1.9	.69	24	11	8.4
16	12	e74	184	54	181	24	10	2.0	.29	41	11	9.8
17	12	e53	134	43	245	24	9.6	2.4	.23	42	35	9.5
18	10	39	90	35	150	25	9.2	2.2	.35	29	42	11
19	11	37	65	32	86	223	8.8	1.8	.51	18	48	34
20	9.2	e33	52	31	274	340	8.6	1.3	.67	27	44	257
21	8.3	31	47	30	231	201	8.3	1.3	.85	29	46	452
22	11	29	43	29	143	122	7.4	.78	.92	30	43	294
23	11	27	41	75	179	84	6.5	1.9	.45	26	41	204
24	10	26	38	104	147	61	6.6	1.1	.80	19	33	172
25	10	24	41	61	94	50	5.9	.77	.98	13	25	170
26	9.8	22	61	44	67	44	4.8	.63	.98	10	19	213
27	23	21	492	38	49	40	4.0	.48	1.0	7.2	16	154
28	49	22	357	32	41	37	3.8	2.4	1.3	5.9	14	105
29	36	20	229	30	---	34	4.4	6.4	2.1	6.1	13	80
30	27	16	161	28	---	31	5.7	5.8	1.0	11	12	65
31	64	---	118	26	---	29	---	3.0	---	9.5	9.8	---
TOTAL	948.3	1218	4265	1565	2404	2200	365.6	128.16	36.17	396.14	903.2	2512.7
MEAN	30.6	40.6	138	50.5	85.9	71.0	12.2	4.13	1.21	12.8	29.1	83.8
MAX	169	137	492	117	274	340	31	14	3.3	42	100	452
MIN	8.3	16	17	26	20	24	3.8	.48	.23	.40	6.6	8.4
CFSM	1.12	1.48	5.02	1.84	3.13	2.59	.44	.15	.04	.47	1.06	3.06
IN.	1.29	1.65	5.79	2.12	3.26	2.99	.50	.17	.05	.54	1.23	3.41

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1998, BY WATER YEAR (WY)

MEAN	29.1	19.4	33.2	27.4	27.9	25.7	12.9	7.66	15.3	19.7	27.1	50.3
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	7.67	6.12	4.81	1.38	1.03	1.70	1.21	4.96	9.12	7.49
(WY)	1997	1997	1994	1997	1997	1997	1997	1997	1998	1997	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1993 - 1998
ANNUAL TOTAL	9016.74	16942.27	
ANNUAL MEAN	24.7	46.4	24.6
HIGHEST ANNUAL MEAN			46.4
LOWEST ANNUAL MEAN			9.62
HIGHEST DAILY MEAN	523	492	523
LOWEST DAILY MEAN	.01	.23	.01
ANNUAL SEVEN-DAY MINIMUM	.01	.51	.01
INSTANTANEOUS PEAK FLOW		764	764
INSTANTANEOUS PEAK STAGE		10.63	10.63
ANNUAL RUNOFF (CFSM)	.90	1.69	.90
ANNUAL RUNOFF (INCHES)	12.24	23.00	12.21
10 PERCENT EXCEEDS	48	120	48
50 PERCENT EXCEEDS	4.9	24	15
90 PERCENT EXCEEDS	.22	1.6	3.1

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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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 mi², 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2520	580	e300	2970	481	2210	883	113	85	63	113	144
2	2220	1030	e270	2290	487	2760	635	114	81	63	110	211
3	1970	1080	322	1820	571	3060	506	116	78	69	124	292
4	1520	950	421	1540	839	2840	458	115	76	69	143	422
5	1220	821	607	1350	1110	2420	434	116	74	68	140	419
6	1030	732	951	1180	1070	2360	404	118	73	75	150	389
7	851	660	926	1040	941	2380	365	117	72	75	176	471
8	703	597	838	1030	823	2260	318	113	70	81	e210	510
9	601	549	736	1080	733	2130	282	109	69	77	e270	496
10	530	509	680	1110	653	1980	250	105	69	82	e350	490
11	480	474	799	1070	565	2020	219	103	68	89	423	514
12	440	443	1290	987	482	2080	198	102	69	87	374	503
13	406	426	2060	947	428	1950	182	99	70	91	317	439
14	372	466	3920	977	395	1610	169	95	71	99	258	364
15	310	567	5090	962	374	1290	159	92	70	118	198	302
16	259	770	4720	901	539	1040	153	89	68	122	155	255
17	224	780	3650	782	1570	838	146	87	66	133	133	222
18	207	723	2880	695	2690	691	140	85	64	155	124	205
19	199	647	2250	618	3180	820	135	83	63	189	137	209
20	193	584	1880	547	3760	1920	132	81	64	227	214	470
21	191	527	1610	469	4080	3500	129	79	e66	331	334	1360
22	191	476	1420	411	4160	4220	124	78	e64	423	346	2090
23	191	438	1270	420	3900	3970	120	76	e63	409	311	2330
24	188	409	1080	512	3500	3410	117	75	e62	363	318	3150
25	183	396	1070	716	3160	2840	115	75	63	350	358	3930
26	179	395	1090	771	2810	2340	113	74	62	325	341	4130
27	201	374	1460	755	2430	2240	112	75	63	263	266	3910
28	254	331	2980	724	2140	2170	111	80	67	199	200	3620
29	341	299	4460	675	---	1990	111	83	66	151	155	3240
30	376	e320	4370	595	---	1710	111	83	65	128	128	2810
31	401	---	3730	519	---	1250	---	89	---	118	127	---
TOTAL	18951	17353	59130	30463	47871	68299	7331	2919	2061	5092	7003	37897
MEAN	611	578	1907	983	1710	2203	244	94.2	68.7	164	226	1263
MAX	2520	1080	5090	2970	4160	4220	883	118	85	423	423	4130
MIN	179	299	270	411	374	691	111	74	62	63	110	144
AC-FT	37590	34420	117300	60420	94950	135500	14540	5790	4090	10100	13890	75170
CFSM	1.63	1.54	5.09	2.62	4.56	5.88	.65	.25	.18	.44	.60	3.37
IN.	1.88	1.72	5.87	3.02	4.75	6.78	.73	.29	.20	.51	.69	3.76

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1998, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	280	155	205	216	263	316	182	105	167	289	433	586														
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	58.2	45.4	54.6	58.0	76.0	101														
(WY)	1973	1991	1991	1992	1991	1997	1985	1985	1977	1981	1993	1978														

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1973 - 1998
ANNUAL TOTAL	134707	304370	
ANNUAL MEAN	369	834	266
HIGHEST ANNUAL MEAN			834
LOWEST ANNUAL MEAN			115
HIGHEST DAILY MEAN	5090	Dec 15	5090
LOWEST DAILY MEAN	42	Apr 23	e62
ANNUAL SEVEN-DAY MINIMUM	49	Apr 6	63
INSTANTANEOUS PEAK FLOW			5200
INSTANTANEOUS PEAK STAGE			34.27
ANNUAL RUNOFF (AC-FT)	267200	603700	193000
ANNUAL RUNOFF (CFSM)	.98	2.22	.71
ANNUAL RUNOFF (INCHES)	13.36	30.19	9.65
10 PERCENT EXCEEDS	843	2420	607
50 PERCENT EXCEEDS	86	401	125
90 PERCENT EXCEEDS	56	75	64

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02303330 HILLSBOROUGH RIVER AT MORRIS BRIDGE NEAR THONOTOSASSA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.61	27.73	---	32.76	27.20	29.96	28.12	25.33	24.86	24.40	25.32	25.64
2	31.20	29.38	---	32.09	27.16	30.48	27.57	25.34	24.78	24.40	25.28	26.07
3	30.81	29.54	26.44	31.32	27.35	30.74	27.22	25.37	24.72	24.53	25.43	26.44
4	30.03	29.14	26.94	30.71	27.93	30.55	27.07	25.36	24.67	24.52	25.64	26.96
5	29.41	28.71	27.83	30.25	28.46	30.17	27.00	25.38	24.63	24.51	25.61	26.95
6	28.96	28.38	29.15	29.81	28.42	30.11	26.89	25.40	24.61	24.65	25.69	26.84
7	28.47	28.10	29.07	29.42	28.19	30.13	26.75	25.39	24.59	24.66	25.85	27.12
8	28.01	27.83	28.77	29.40	27.98	30.02	26.57	25.33	24.56	24.78	---	27.23
9	27.65	27.61	28.40	29.54	27.80	29.88	26.42	25.27	24.52	24.71	---	27.19
10	27.37	27.42	28.18	29.64	27.62	29.72	26.27	25.21	24.53	24.79	---	27.17
11	27.16	27.24	28.62	29.51	27.39	29.76	26.11	25.19	24.51	24.94	26.96	27.25
12	26.98	27.07	30.10	29.26	27.15	29.82	25.99	25.17	24.52	24.91	26.79	27.21
13	26.82	26.97	31.66	29.14	26.98	29.68	25.90	25.11	24.55	24.99	26.57	27.01
14	26.65	27.19	33.46	29.23	26.87	29.27	25.81	25.05	24.56	25.12	26.30	26.75
15	26.39	27.68	34.20	29.19	26.79	28.82	25.75	24.99	24.54	25.40	25.99	26.50
16	26.16	28.53	33.99	29.01	27.29	28.42	25.71	24.93	24.50	25.46	25.72	26.29
17	25.99	28.57	33.28	28.71	29.14	28.03	25.66	24.90	24.46	25.56	25.56	26.12
18	25.89	28.35	32.68	28.47	30.42	27.71	25.62	24.87	24.43	25.72	25.48	26.03
19	25.85	28.04	32.05	28.23	30.83	27.97	25.58	24.83	24.40	25.94	25.59	26.05
20	25.81	27.77	31.42	27.99	31.27	29.59	25.55	24.78	24.41	26.14	26.06	26.96
21	25.80	27.50	30.86	27.71	31.49	31.07	25.53	24.74	---	26.62	26.64	28.89
22	25.80	27.24	30.45	27.47	31.54	31.58	25.48	24.71	---	26.96	26.68	29.83
23	25.80	27.04	30.05	27.45	31.36	31.41	25.43	24.68	---	26.91	26.54	30.08
24	25.78	26.88	29.55	27.69	31.08	31.01	25.39	24.67	---	26.75	26.57	30.80
25	25.76	26.80	29.51	28.16	30.82	30.55	25.35	24.65	24.39	26.70	26.73	31.38
26	25.73	26.80	29.57	28.24	30.53	30.09	25.33	24.63	24.37	26.60	26.66	31.52
27	25.85	26.67	30.51	28.15	30.18	29.99	25.32	24.65	24.38	26.33	26.34	31.37
28	26.13	26.47	32.70	28.03	29.89	29.92	25.30	24.75	24.48	26.00	26.00	31.17
29	26.51	26.34	33.83	27.87	---	29.73	25.30	24.83	24.46	25.70	25.72	30.88
30	26.68	---	33.78	27.62	---	29.39	25.30	24.82	24.43	25.52	25.52	30.53
31	26.82	---	33.34	27.36	---	28.76	---	24.94	---	25.40	25.50	---
MEAN	27.22	---	---	29.01	28.90	29.82	26.04	25.01	---	25.47	---	28.01
MAX	31.61	---	---	32.76	31.54	31.58	28.12	25.40	---	26.96	---	31.52
MIN	25.73	---	---	27.36	26.79	27.71	25.30	24.63	---	24.40	---	25.64

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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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 1997 TO SEPTEMBER 1998

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) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)
NOV 25...	1105	26.79	394	234	5.60	15.0	--	4.9	--	--	--	--
APR 21...	1133	25.54	130	359	6.77	22.0	50	5.3	52	4.2	12	2.0
JUN 03...	1005	24.73	78	395	6.80	25.0	--	5.3	--	--	--	--
AUG 20...	0915	25.89	181	267	7.50	24.0	100	4.1	37	3.6	11	3.0
SEP 23...	1030	30.01	2260	111	5.30	23.5	200	4.1	15	1.6	4.1	2.3

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 (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 25...	--	--	--	--	--	<.01	.12	.06	1.2	.42	.41
APR 21...	17	16	.22	9.7	220	.01	1.1	.07	.60	.25	.21
JUN 03...	--	--	--	--	--	<.01	1.5	.03	.27	.08	.09
AUG 20...	16	16	.24	7.9	186	.02	.36	.05	.75	.34	.30
SEP 23...	6.4	6.5	.18	4.7	104	<.01	.08	.04	.82	.40	.39

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 25...	--	--	--	--	--	--	--	--	--	--	--
APR 21...	77	<1.0	<1.0	<1.0	<1.0	159	<1	<.1	<1.0	250	1.9
JUN 03...	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	91	2.7	<1.0	<1.0	1.1	287	<1	<.1	1.1	160	4.7
SEP 23...	133	1.2	<1.0	<1.0	1.1	307	<1	<.1	<1.0	66	3.1

HILLSBOROUGH RIVER BASIN

02303350 TROUT CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°08'20", long 82°21'50", in SW¹/₄ 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 mi², 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e151	173	9.9	144	30	272	23	.00	.00	.00	1.5	6.6
2	e106	231	11	116	30	325	18	.19	.00	.00	1.5	7.1
3	e72	178	10	96	139	219	14	.21	.00	.00	1.3	7.3
4	50	129	77	80	311	145	10	.17	.00	.00	1.1	17
5	39	98	126	67	279	115	8.1	.41	.00	.00	.96	108
6	25	74	e110	57	191	93	6.6	.47	.00	.00	1.0	239
7	17	54	e80	49	138	76	5.3	.36	.00	.00	2.3	327
8	12	39	e60	64	110	63	4.1	.22	.00	.00	13	306
9	9.0	29	e40	99	89	97	3.3	.08	.00	.00	27	399
10	6.8	22	79	99	70	149	3.0	.00	.00	.00	27	359
11	5.4	e16	247	89	59	146	2.6	.00	.00	.00	39	261
12	4.3	e27	590	76	48	124	2.4	.00	.00	.00	48	158
13	3.5	e50	1080	64	39	103	2.1	.00	.00	.00	40	107
14	3.2	e100	1150	54	35	83	1.7	.00	.00	.12	28	76
15	2.4	146	688	48	33	67	1.4	.00	.00	24	21	57
16	2.0	136	401	52	176	55	1.1	.00	.00	29	15	46
17	1.8	105	250	57	749	45	.97	.00	.00	15	12	39
18	1.7	80	162	52	722	36	.86	.00	.00	7.3	11	34
19	2.3	61	125	47	439	138	.71	.00	.00	9.6	19	40
20	2.6	49	103	42	456	741	.58	.00	.00	58	30	181
21	2.4	37	84	36	418	599	.41	.00	.00	166	40	604
22	2.3	30	70	33	299	347	.70	.00	.00	93	42	685
23	2.0	23	59	45	221	212	.84	.00	.00	51	84	485
24	1.7	18	49	88	161	141	.36	.00	.00	30	93	401
25	e1.5	14	50	90	130	107	.13	.00	.00	16	72	277
26	e1.2	12	123	80	109	85	.00	.00	.00	9.9	50	220
27	e1.0	10	790	71	90	67	.00	.00	.00	6.4	35	168
28	e.80	8.5	1110	63	85	54	.00	.00	.00	4.3	24	128
29	e1.5	7.6	559	55	---	45	.00	.00	.00	3.0	17	98
30	e8.0	7.6	327	44	---	36	.00	.00	.00	2.3	12	76
31	26	---	205	36	---	29	---	.00	---	1.7	9.2	---
TOTAL	565.40	1964.7	8824.9	2093	5656	4814	112.26	2.11	0.00	526.62	817.86	5917.0
MEAN	18.2	65.5	285	67.5	202	155	3.74	.068	.000	17.0	26.4	197
MAX	151	231	1150	144	749	741	23	.47	.00	166	93	685
MIN	.80	7.6	9.9	33	30	29	.00	.00	.00	.00	.96	6.6
CFSM	.79	2.85	12.4	2.94	8.78	6.75	.16	.00	.00	.74	1.15	8.58
IN.	.91	3.18	14.27	3.39	9.15	7.79	.18	.00	.00	.85	1.32	9.57

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1998, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	13.5	7.86	16.1	14.3	24.9	31.1	10.6	9.47	8.12	16.9	36.4	60.8												
MAX	72.7	70.8	285	67.5	202	161	69.6	117	81.2	81.1	125	248												
(WY)	1996	1998	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1975 - 1998
ANNUAL TOTAL	15434.86	31293.85	
ANNUAL MEAN	42.3	85.7	20.8
HIGHEST ANNUAL MEAN			85.7
LOWEST ANNUAL MEAN			2.10
HIGHEST DAILY MEAN	1150	1150	1160
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1340	1540
INSTANTANEOUS PEAK STAGE		42.20	42.58
ANNUAL RUNOFF (CFSM)	1.84	3.73	.90
ANNUAL RUNOFF (INCHES)	24.96	50.61	12.29
10 PERCENT EXCEEDS	99	225	52
50 PERCENT EXCEEDS	2.2	29	1.5
90 PERCENT EXCEEDS	.00	.00	.00

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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 1997 TO SEPTEMBER 1998

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							
25...	1015	36.73	14	179	5.90	15.0	5.9
DEC							
15...	1455	41.00	646	67	5.67	14.5	7.6
AUG							
20...	0837	37.13	26	158	5.90	24.0	4.3
SEP							
23...	0950	40.48	450	67	5.50	24.0	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						
25...	<.01	<.02	.04	1.0	.09	.08
DEC						
15...	<.01	<.02	.03	.48	.05	.04
AUG						
20...	<.01	.04	.02	.96	.10	.07
SEP						
23...	.01	<.02	.03	.78	.09	.06

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	34	14	190	38	141	45	3.6	e.02	e.00	e1.9	.46
2	24	52	16	154	38	190	42	3.2	e.01	e.00	e1.7	.45
3	24	58	19	121	251	181	39	2.8	.00	e.00	e1.5	.97
4	23	54	25	99	461	149	36	e2.3	.00	e.00	e1.2	1.9
5	21	47	33	81	361	120	34	e2.1	.00	e.00	e1.0	3.0
6	19	41	40	66	248	99	31	e1.8	.00	e.00	e.82	8.6
7	17	36	39	56	175	85	26	e1.6	.00	e.00	e.70	21
8	15	30	36	69	126	75	27	e1.4	.00	e.00	e2.9	30
9	13	27	33	89	96	281	25	e1.1	e.03	e.00	e10	29
10	12	23	31	99	77	419	23	e.95	e.02	e.20	e18	26
11	10	21	59	92	63	328	23	e.80	e.06	e.15	e38	23
12	8.7	19	269	79	54	226	22	e.69	e.22	e.08	e50	20
13	7.6	18	469	65	48	161	20	e.58	e.09	e.05	e30	17
14	6.6	22	585	55	45	121	18	e.48	e.04	e.03	e17	15
15	5.7	22	526	63	43	96	17	e.40	e.02	e.00	e9.5	15
16	4.9	24	417	165	165	79	15	e.36	e.00	e.00	e4.5	18
17	4.2	24	308	221	540	67	14	e.30	e.00	e4.5	e2.3	22
18	3.8	24	227	174	572	58	13	e.27	e.00	e6.0	e1.1	22
19	3.7	23	172	129	464	98	11	e.22	e.00	e6.0	e.98	26
20	3.0	22	132	98	447	268	9.9	e.19	e.00	e3.0	e.85	62
21	2.3	20	105	77	428	347	9.0	e.14	e.00	e9.0	.95	147
22	1.8	19	84	62	340	280	8.0	e.12	e.00	e20	1.0	146
23	1.3	18	67	59	257	206	7.1	e.10	e.00	e28	1.1	125
24	.94	16	56	63	199	157	6.4	e.08	e.00	e30	1.0	111
25	1.0	14	67	69	161	123	5.8	e.07	e.00	e14	.92	98
26	.91	13	182	71	132	98	5.2	e.06	e.01	e5.5	.84	92
27	5.8	12	400	66	111	81	4.8	e.06	e.02	e5.1	.71	79
28	11	11	512	57	108	68	4.3	e.07	e.02	e2.3	.60	75
29	15	10	433	51	---	60	3.9	e.07	e.01	e1.0	.58	70
30	15	13	321	46	---	53	3.6	e.04	e.00	e.50	.55	60
31	18	---	241	42	---	48	---	e.03	---	e.60	.51	---
TOTAL	320.25	767	5918	2828	6048	4763	549.0	25.98	0.57	136.01	202.71	1364.38
MEAN	10.3	25.6	191	91.2	216	154	18.3	.84	.019	4.39	6.54	45.5
MAX	24	58	585	221	572	419	45	3.6	.22	30	50	147
MIN	.91	10	14	42	38	48	3.6	.03	.00	.00	.51	.45
AC-FT	635	1520	11740	5610	12000	9450	1090	52	1.1	270	402	2710
CFSM	.18	.46	3.41	1.63	3.86	2.74	.33	.01	.00	.08	.12	.81
IN.	.21	.51	3.93	1.88	4.02	3.16	.36	.02	.00	.09	.13	.91

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

	MEAN	20.0	8.03	12.5	16.4	24.7	25.5	12.1	4.18	8.82	17.5	32.1	42.7
MAX	105	43.7	191	91.2	216	154	99.0	44.6	87.7	132	229	178	178
(WY)	1983	1989	1998	1998	1998	1998	1987	1979	1982	1974	1965	1964	1964
MIN	.000	.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	1992

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1964 - 1998
ANNUAL TOTAL	7028.45	22922.90	
ANNUAL MEAN	19.3	62.8	18.7
HIGHEST ANNUAL MEAN			62.8
LOWEST ANNUAL MEAN			.11
HIGHEST DAILY MEAN	585	Dec 14	996
LOWEST DAILY MEAN	.00	Many Days	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
INSTANTANEOUS PEAK FLOW			1100
INSTANTANEOUS PEAK STAGE			76.05
ANNUAL RUNOFF (AC-FT)	13940	45470	13530
ANNUAL RUNOFF (CFSM)	.34	1.12	.33
ANNUAL RUNOFF (INCHES)	4.67	15.23	4.53
10 PERCENT EXCEEDS	26	181	51
50 PERCENT EXCEEDS	.00	19	3.9
90 PERCENT EXCEEDS	.00	.03	.00

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02303400 CYPRESS CREEK NEAR SAN ANTONIO, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.75	72.25	71.21	73.90	72.44	73.63	72.55	70.45	---	---	---	69.87
2	71.87	72.69	71.35	73.70	72.44	73.90	72.46	70.40	---	---	---	69.87
3	71.89	72.80	71.49	73.50	74.03	73.85	72.39	70.34	---	---	---	70.01
4	71.81	72.73	71.79	73.32	74.85	73.67	72.31	---	---	---	---	70.20
5	71.72	72.59	72.16	73.14	74.54	73.49	72.22	---	---	---	---	70.36
6	71.64	72.44	72.39	72.97	74.15	73.32	72.12	---	---	---	---	70.93
7	71.53	72.29	72.35	72.84	73.82	73.18	72.04	---	---	---	---	71.66
8	71.42	72.12	72.27	73.00	73.53	73.08	71.94	---	---	---	---	72.05
9	71.30	71.97	72.17	73.23	73.29	74.25	71.86	---	---	---	---	72.02
10	71.18	71.82	72.08	73.32	73.10	74.72	71.80	---	---	---	---	71.92
11	71.06	71.69	72.72	73.25	72.93	74.44	71.76	---	---	---	---	71.78
12	70.95	71.56	74.19	73.12	72.79	74.06	71.71	---	---	---	---	71.64
13	70.85	71.52	74.88	72.96	72.69	73.74	71.63	---	---	---	---	71.49
14	70.77	71.75	75.22	72.82	72.63	73.49	71.54	---	---	---	---	71.36
15	70.68	71.72	75.05	72.91	72.58	73.29	71.46	---	---	---	---	71.35
16	70.60	71.80	74.71	73.74	73.64	73.13	71.37	---	---	---	---	71.52
17	70.51	71.81	74.37	74.04	75.08	72.98	71.30	---	---	---	---	71.73
18	70.47	71.80	74.07	73.81	75.18	72.85	71.21	---	---	---	---	71.74
19	70.45	71.77	73.81	73.55	74.86	73.26	71.12	---	---	---	---	71.89
20	70.36	71.70	73.57	73.31	74.81	74.28	71.03	---	---	---	---	72.74
21	70.25	71.62	73.37	73.10	74.75	74.60	70.97	---	---	---	70.01	73.68
22	70.15	71.53	73.17	72.92	74.48	74.35	70.88	---	---	---	70.03	73.67
23	70.05	71.45	72.99	72.87	74.19	74.02	70.81	---	---	---	70.04	73.53
24	69.96	71.33	72.83	72.94	73.94	73.75	70.75	---	---	---	70.02	73.42
25	69.99	71.23	72.95	73.01	73.75	73.51	70.69	---	---	---	70.00	73.31
26	69.96	71.15	73.82	73.03	73.57	73.31	70.64	---	---	---	69.98	73.25
27	70.55	71.07	74.66	72.97	73.42	73.14	70.59	---	---	---	69.95	73.12
28	71.14	70.99	75.01	72.86	73.39	73.00	70.54	---	---	---	69.92	73.08
29	71.39	70.93	74.76	72.74	---	72.87	70.49	---	---	---	69.91	73.02
30	71.37	71.13	74.42	72.64	---	72.75	70.46	---	---	---	69.90	72.89
31	71.53	---	74.12	72.54	---	72.64	---	---	---	---	69.89	---
MEAN	70.94	71.78	73.35	73.16	73.75	73.57	71.42	---	---	---	---	71.97
MAX	71.89	72.80	75.22	74.04	75.18	74.72	72.55	---	---	---	---	73.68
MIN	69.96	70.93	71.21	72.54	72.44	72.64	70.46	---	---	---	---	69.87

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN**

02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL

LOCATION.--Lat 28°11'08", long 82°24'03", in SW $\frac{1}{4}$ 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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1964 to October 1971 (annual maximum); November 1971 to May 1974 (gauge 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.

**DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	86	22	795	211	707	356	4.1	.02	.00	5.5	5.3
2	79	115	22	763	206	668	309	3.6	.01	.00	4.4	4.3
3	71	125	22	710	308	642	265	2.7	.00	.00	3.8	5.8
4	61	122	41	649	372	614	226	1.9	.00	.00	2.9	14
5	50	109	70	586	433	581	191	1.7	.00	.00	2.6	57
6	39	93	77	523	482	547	163	1.4	.00	.00	5.9	158
7	29	79	81	463	541	512	141	1.2	.00	.00	15	209
8	19	64	82	436	586	476	124	.91	.00	.00	21	215
9	12	52	79	410	596	536	112	.71	.00	.00	24	218
10	8.0	41	80	384	574	590	103	.56	.00	.26	49	231
11	5.6	33	106	362	533	654	94	.45	.00	.09	64	199
12	4.3	25	177	339	484	697	87	.35	.00	.00	54	156
13	3.4	21	343	314	433	714	79	.29	.00	.00	38	120
14	2.7	46	526	293	384	703	71	.24	.00	.08	23	94
15	2.2	68	665	278	343	667	64	.20	.00	5.9	13	80
16	1.8	70	773	278	399	618	57	.18	.00	19	14	67
17	1.6	73	822	276	560	563	50	.16	.00	18	14	56
18	1.5	77	808	275	730	508	43	.15	.00	9.9	20	47
19	1.8	75	761	276	921	527	37	.13	.00	4.8	30	44
20	1.8	70	697	281	1170	609	31	.12	.00	11	36	94
21	1.6	62	626	291	1280	667	27	.10	.00	39	35	298
22	1.3	54	555	297	1280	718	23	.09	.00	43	34	452
23	1.1	47	485	314	1220	749	19	.08	.00	38	43	524
24	.88	41	421	332	1110	752	15	.06	.00	29	52	530
25	.84	35	382	328	993	728	12	.06	.00	19	51	499
26	.77	30	396	318	879	683	9.8	.07	.00	12	43	465
27	1.5	25	519	305	786	628	8.0	.13	.00	7.3	32	430
28	6.8	22	622	287	736	569	6.5	.16	.00	5.0	22	390
29	12	20	697	268	---	511	5.3	.16	.00	3.4	14	349
30	15	20	760	247	---	456	4.5	.11	.00	3.2	8.9	307
31	27	---	797	228	---	405	---	.06	---	7.8	6.6	---
TOTAL	546.49	1800	12514	11906	18550	18999	2733.1	22.13	0.03	275.73	781.6	6318.4
MEAN	17.6	60.0	404	384	663	613	91.1	.71	.001	8.89	25.2	211
MAX	83	125	822	795	1280	752	356	4.1	.02	43	64	530
MIN	.77	20	22	228	206	405	4.5	.06	.00	.00	2.6	4.3
CFSM	.15	.51	3.45	3.28	5.66	5.24	.78	.01	.00	.08	.22	1.80
IN.	.17	.57	3.98	3.79	5.90	6.04	.87	.01	.00	.09	.25	2.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1998, BY WATER YEAR (WY)

	MEAN	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	48.7	15.4	29.7	46.2	66.9	75.5	39.9	17.9	17.9	32.2	62.8	101													
MAX	254	98.3	404	384	663	613	416	217	240	139	249	372													
(WY)	1983	1989	1998	1998	1998	1998	1998	1997	1998	1982	1982	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1975 - 1998
ANNUAL TOTAL	16549.67	74446.48	
ANNUAL MEAN	45.3	204	46.1
HIGHEST ANNUAL MEAN			204
LOWEST ANNUAL MEAN			2.58
HIGHEST DAILY MEAN	822	1280	1430
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1300	1450
INSTANTANEOUS PEAK STAGE		12.31	12.62
ANNUAL RUNOFF (CFSM)	.39	1.74	.39
ANNUAL RUNOFF (INCHES)	5.26	23.67	5.35
10 PERCENT EXCEEDS	79	651	125
50 PERCENT EXCEEDS	1.8	50	6.9
90 PERCENT EXCEEDS	.00	.00	.00

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN
02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.00	6.07	4.21	10.77	7.24	10.38	8.42	2.86	2.37	---	2.99	2.97
2	5.92	6.59	4.23	10.63	7.18	10.20	8.08	2.81	2.35	---	2.88	2.87
3	5.74	6.73	4.20	10.39	8.07	10.07	7.72	2.75	---	---	2.82	3.01
4	5.49	6.70	4.87	10.11	8.53	9.93	7.38	2.69	---	---	2.77	3.55
5	5.19	6.51	5.71	9.79	8.93	9.77	7.04	2.68	---	---	2.74	4.94
6	4.86	6.24	5.88	9.45	9.22	9.59	6.73	2.65	---	---	3.01	6.66
7	4.48	5.92	5.97	9.11	9.55	9.39	6.47	2.62	---	---	3.61	7.22
8	4.09	5.57	5.98	8.95	9.79	9.19	6.25	2.59	---	---	3.89	7.28
9	3.71	5.24	5.90	8.78	9.84	9.52	6.07	2.56	---	---	3.99	7.30
10	3.41	4.93	5.94	8.61	9.73	9.81	5.92	2.53	---	2.38	4.78	7.42
11	3.20	4.64	6.43	8.46	9.51	10.13	5.76	2.51	---	2.40	5.14	7.11
12	3.06	4.35	7.26	8.30	9.23	10.33	5.62	2.49	---	---	4.91	6.65
13	2.96	4.16	8.52	8.12	8.93	10.41	5.46	2.47	---	---	4.48	6.18
14	2.88	5.05	9.61	7.95	8.61	10.36	5.31	2.46	---	2.30	3.94	5.76
15	2.81	5.66	10.29	7.83	8.33	10.19	5.16	2.45	---	2.99	3.52	5.48
16	2.76	5.70	10.73	7.83	8.70	9.95	4.99	2.44	---	3.77	3.56	5.23
17	2.71	5.79	10.88	7.82	9.65	9.67	4.81	2.44	---	3.76	3.54	4.96
18	2.71	5.86	10.83	7.81	10.48	9.37	4.63	2.43	---	3.31	3.84	4.72
19	2.76	5.83	10.62	7.82	11.25	9.48	4.45	2.42	---	2.93	4.21	4.64
20	2.75	5.70	10.33	7.86	12.01	9.91	4.25	2.42	---	3.32	4.43	5.60
21	2.72	5.51	9.99	7.93	12.27	10.19	4.10	2.41	---	4.51	4.39	7.97
22	2.67	5.31	9.63	7.98	12.28	10.43	3.94	2.41	---	4.63	4.33	9.04
23	2.62	5.11	9.24	8.12	12.14	10.57	3.77	2.40	---	4.48	4.62	9.46
24	2.57	4.91	8.85	8.25	11.85	10.58	3.60	2.39	---	4.19	4.85	9.49
25	2.56	4.71	8.60	8.22	11.50	10.47	3.44	2.39	---	3.81	4.85	9.32
26	2.54	4.53	8.69	8.14	11.11	10.27	3.31	2.40	---	3.42	4.63	9.12
27	2.67	4.36	9.42	8.04	10.73	10.00	3.18	2.43	---	3.13	4.29	8.91
28	3.30	4.22	9.97	7.91	10.51	9.70	3.07	2.43	---	2.94	3.90	8.65
29	3.68	4.11	10.33	7.75	---	9.39	2.97	2.44	---	2.80	3.53	8.37
30	3.87	4.12	10.62	7.57	---	9.07	2.90	2.42	---	2.80	3.25	8.06
31	4.33	---	10.78	7.40	---	8.75	---	2.39	---	3.17	3.08	---
MEAN	3.58	5.34	8.21	8.51	9.90	9.91	5.16	2.51	---	---	3.90	6.60
MAX	6.00	6.73	10.88	10.77	12.28	10.58	8.42	2.86	---	---	5.14	9.49
MIN	2.54	4.11	4.20	7.40	7.18	8.75	2.90	2.39	---	---	2.74	2.87

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN
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 1997 TO SEPTEMBER 1998

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							
25...	0910	4.73	35	192	6.30	14.0	3.9
APR							
21...	0925	4.12	27	146	6.20	19.5	3.8
AUG							
19...	0930	4.18	29	229	6.30	24.0	2.8
SEP							
23...	0840	9.43	518	86	5.50	23.0	2.4

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						
25...	<.01	<.02	.03	1.5	.03	.02
APR						
21...	<.01	.08	.05	1.4	.17	.15
AUG						
19...	<.01	.02	.02	1.3	.03	.02
SEP						
23...	.01	<.02	.04	.92	.07	.04

HILLSBOROUGH RIVER BASIN

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°05'20", long 82°24'33", in SE¹/₄ 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 mi², 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	306	117	67	862	358	1090	552	12	1.3	.00	28	37
2	261	160	64	846	355	1050	504	10	1.1	.00	27	30
3	222	173	61	839	495	944	461	7.6	.94	.00	24	31
4	189	181	131	828	556	840	421	5.8	.74	.00	22	38
5	161	182	189	801	571	765	385	5.8	.51	.00	22	46
6	139	180	186	751	557	705	345	5.8	.35	.00	25	65
7	115	175	182	706	543	663	305	4.6	.23	.00	27	110
8	93	165	176	723	541	624	271	3.4	.15	.00	31	163
9	74	153	172	717	556	677	249	2.4	.29	.00	35	213
10	61	138	188	669	579	701	224	1.8	.92	.00	45	277
11	51	122	280	608	604	684	198	1.3	.38	.00	55	307
12	42	104	478	554	613	670	173	.87	.19	.02	59	308
13	34	93	808	507	601	673	152	.62	.08	2.5	59	290
14	27	150	1050	474	586	691	136	.37	.02	3.9	59	263
15	21	169	1000	454	559	710	119	.26	.01	11	60	230
16	16	173	879	451	690	711	105	.18	.10	7.3	60	201
17	13	178	815	432	1010	698	92	.11	.37	14	61	175
18	12	175	802	409	1120	671	81	.05	.49	15	70	154
19	14	166	810	393	1040	820	71	.02	.42	14	67	148
20	14	156	818	378	1150	1290	63	.01	.40	32	64	263
21	13	146	810	368	1210	1270	56	.00	.27	103	61	469
22	12	137	783	363	1240	1070	50	.00	.53	194	62	488
23	11	129	731	394	1300	928	44	.00	.40	196	69	516
24	9.6	118	682	443	1320	854	38	.00	.17	174	70	546
25	9.5	105	648	457	1300	827	33	.00	.06	143	73	628
26	9.6	94	658	452	1230	810	28	.00	.02	115	73	766
27	12	84	1040	446	1150	788	24	.00	.01	88	69	784
28	17	76	1330	431	1070	746	19	.00	.00	69	63	696
29	18	68	1190	413	---	702	15	.66	.00	55	57	598
30	20	68	1020	394	---	653	12	1.1	.00	45	50	517
31	30	---	914	375	---	601	---	1.7	---	35	44	---
TOTAL	2026.7	4135	18962	16938	22904	24926	5226	66.45	10.45	1316.72	1591	9357
MEAN	65.4	138	612	546	818	804	174	2.14	.35	42.5	51.3	312
MAX	306	182	1330	862	1320	1290	552	12	1.3	196	73	784
MIN	9.5	68	61	363	355	601	12	.00	.00	.00	22	30
AC-FT	4020	8200	37610	33600	45430	49440	10370	132	21	2610	3160	18560
CFSM	.41	.86	3.82	3.41	5.11	5.03	1.09	.01	.00	.27	.32	1.95
IN.	.47	.96	4.41	3.94	5.33	5.80	1.22	.02	.00	.31	.37	2.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1998, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1996, BY WATER YEAR (WY)																			
MEAN	96.6	27.1	48.0	72.1	103	114	60.4	18.9	36.9	79.0	156	190							
MAX	489	138	612	546	818	804	551	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1965 - 1998
ANNUAL TOTAL	30438.58	107459.32	
ANNUAL MEAN	83.4	294	83.4
HIGHEST ANNUAL MEAN			294
LOWEST ANNUAL MEAN			6.50
HIGHEST DAILY MEAN	1330	Dec 28	1750
LOWEST DAILY MEAN	.00	Many Days	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 28	.00
INSTANTANEOUS PEAK FLOW			2160
INSTANTANEOUS PEAK STAGE			34.13
ANNUAL RUNOFF (AC-FT)	60370	213100	60390
ANNUAL RUNOFF (CFSM)	.52	1.84	.52
ANNUAL RUNOFF (INCHES)	7.08	24.98	7.08
10 PERCENT EXCEEDS	184	816	235
50 PERCENT EXCEEDS	5.9	131	19
90 PERCENT EXCEEDS	.00	.18	.00

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.90	28.21	27.80	30.05	29.03	30.38	29.48	26.27	25.29	---	26.96	27.19
2	28.76	28.49	27.75	30.03	29.02	30.33	29.38	26.16	25.25	---	26.90	27.01
3	28.63	28.55	27.71	30.01	29.36	30.17	29.29	25.99	25.21	---	26.82	27.03
4	28.51	28.59	28.28	29.99	29.48	30.02	29.19	25.86	25.15	---	26.76	27.23
5	28.39	28.60	28.63	29.95	29.51	29.89	29.10	25.85	25.06	---	26.75	27.41
6	28.28	28.59	28.62	29.87	29.49	29.78	29.02	25.85	24.99	---	26.84	27.76
7	28.14	28.57	28.60	29.78	29.46	29.70	28.93	25.74	24.92	---	26.92	28.19
8	28.00	28.52	28.57	29.81	29.46	29.63	28.83	25.62	24.85	---	27.04	28.50
9	27.84	28.46	28.55	29.80	29.49	29.73	28.76	25.49	24.88	---	27.15	28.73
10	27.68	28.37	28.63	29.71	29.53	29.77	28.67	25.39	25.19	---	27.38	28.97
11	27.51	28.27	28.95	29.59	29.59	29.74	28.57	25.29	25.00	---	27.61	29.07
12	27.32	28.15	29.46	29.48	29.60	29.72	28.46	25.19	24.89	24.62	27.68	29.07
13	27.11	28.07	30.03	29.39	29.58	29.73	28.37	25.10	24.78	25.34	27.68	29.02
14	26.91	28.43	30.33	29.32	29.55	29.76	28.28	25.01	24.70	25.59	27.68	28.92
15	26.71	28.54	30.26	29.27	29.49	29.79	28.19	24.95	24.66	26.10	27.70	28.81
16	26.52	28.56	30.08	29.26	29.75	29.79	28.10	24.89	24.77	25.89	27.69	28.68
17	26.37	28.58	29.98	29.22	30.26	29.77	28.01	24.83	24.98	26.30	27.71	28.56
18	26.31	28.57	29.96	29.16	30.42	29.72	27.92	24.77	25.02	26.38	27.83	28.46
19	26.40	28.52	29.97	29.12	30.31	29.97	27.82	24.72	25.00	26.32	27.79	28.43
20	26.42	28.47	29.98	29.08	30.46	30.63	27.72	24.68	24.99	26.99	27.76	28.88
21	26.37	28.42	29.97	29.06	30.53	30.60	27.62	---	24.92	28.08	27.71	29.49
22	26.31	28.37	29.92	29.04	30.56	30.35	27.51	---	25.04	28.65	27.72	29.54
23	26.24	28.32	29.83	29.12	30.64	30.15	27.37	---	24.98	28.66	27.82	29.60
24	26.16	28.24	29.74	29.24	30.66	30.04	27.22	---	24.84	28.56	27.82	29.66
25	26.16	28.16	29.67	29.28	30.63	29.99	27.08	---	24.73	28.40	27.86	29.81
26	26.17	28.07	29.69	29.27	30.56	29.97	26.94	---	24.67	28.22	27.87	30.03
27	26.28	27.99	30.29	29.25	30.45	29.93	26.79	---	24.63	28.02	27.82	30.06
28	26.55	27.90	30.67	29.22	30.36	29.86	26.61	---	---	27.81	27.74	29.92
29	26.61	27.81	30.51	29.17	---	29.78	26.44	25.11	---	27.60	27.64	29.75
30	26.66	27.81	30.29	29.13	---	29.68	26.30	25.24	---	27.39	27.51	29.60
31	26.95	---	30.13	29.08	---	29.58	---	25.36	---	27.15	27.36	---
MEAN	27.13	28.34	29.45	29.44	29.90	29.93	28.07	---	---	---	27.47	28.78
MAX	28.90	28.60	30.67	30.05	30.66	30.63	29.48	---	---	---	27.87	30.06
MIN	26.16	27.81	27.71	29.04	29.02	29.58	26.30	---	---	---	26.75	27.01

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN
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 1997 TO SEPTEMBER 1998

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 25...	0950	28.16	105	205	5.80	15.0	--	3.5	--	--	--	--
DEC 15...	1400	30.25	999	106	5.95	15.0	160	5.5	15	1.4	4.2	1.5
APR 21...	1020	27.63	57	152	6.08	20.5	240	2.5	21	2.1	5.9	2.2
JUN 03...	0907	25.24	1.0	227	6.10	24.5	--	3.2	--	--	--	--
AUG 20...	0803	27.76	64	185	5.90	24.0	240	1.9	28	2.1	7.0	1.9
SEP 23...	0930	29.59	514	125	5.90	24.0	200	1.8	17	1.5	4.8	2.0

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 ORTHO TOTAL (MG/L AS P) (00665)	PHOS- PHORUS TOTAL (MG/L AS P) (70507)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV 25...	--	--	--	--	--	<.01	<.02	.04	1.2	.02	.02	--
DEC 15...	4.1	7.8	<.10	3.8	96	<.01	<.02	.03	.65	.06	.03	27
APR 21...	1.9	11	.10	4.0	136	<.01	.09	.06	1.2	.16	.14	37
JUN 03...	--	--	--	--	--	<.01	.07	.16	.88	.07	.07	--
AUG 20...	5.1	13	.12	5.3	170	<.01	<.02	.02	1.2	.04	.03	52
SEP 23...	3.8	8.2	.10	4.2	114	<.01	<.02	.03	.91	.11	.08	34

LOCATION.--Lat 28°03'15", long 82°21'50", in NW¹/₄ sec.13, T.28 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, on downstream pile of right bent of Fowler Avenue bridge, 0.2 mi downstream from Cow House Creek, 2.0 mi northeast of Temple Terrace, 2.5 mi downstream from Cypress Creek, and 20 mi upstream from mouth.

PERIOD OF RECORD.--October 1933 to December 1939 (published as "near Harney"); January 1961 to September 1998 (gage heights and miscellaneous discharge measurements only), incomplete (discontinued). January 1961 to October 1979, published as Hillsborough River at Fowler Avenue near Tampa. Records of gage heights prior to October 1962 are available in files of the Geological Survey.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 24.90 ft, Feb. 19; minimum, 21.72 ft, Nov. 13.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.86	22.92	22.24	23.17	22.23	24.03	23.88	22.70	22.54	22.09	22.48	22.33
2	23.60	22.94	22.41	23.12	21.99	23.96	23.69	22.69	22.56	22.04	22.43	22.34
3	23.15	23.44	22.50	23.32	22.01	23.97	23.45	22.67	22.56	22.00	22.33	22.45
4	23.49	23.95	22.56	23.35	22.44	23.90	22.95	22.66	22.56	21.99	22.35	22.44
5	23.55	23.87	22.48	23.35	22.80	23.82	22.59	22.69	22.56	21.98	22.50	22.52
6	23.63	23.58	22.82	23.50	23.16	23.80	22.37	22.70	22.54	22.09	22.57	22.43
7	23.58	23.40	23.20	23.58	23.33	23.72	22.39	22.70	22.50	22.20	22.50	22.49
8	23.41	23.17	23.41	23.47	23.27	23.66	22.25	22.71	22.47	22.33	22.37	22.55
9	23.21	22.90	23.33	23.57	23.14	23.69	22.34	22.70	22.45	22.44	22.42	22.74
10	23.12	22.59	23.13	23.72	23.03	23.90	22.47	22.67	22.52	22.58	22.61	22.76
11	22.79	22.17	23.12	23.74	22.88	24.07	22.61	22.66	22.51	22.59	22.69	22.88
12	22.76	21.98	23.61	23.70	22.83	23.87	22.72	22.64	22.50	22.60	22.69	22.89
13	22.86	21.78	24.34	23.72	22.80	23.68	22.73	22.59	22.47	22.60	22.63	22.83
14	22.75	22.10	23.95	23.33	22.59	23.77	22.77	22.53	22.43	22.63	22.59	22.71
15	22.64	22.31	23.33	23.05	22.25	23.84	22.80	22.48	22.40	22.67	22.51	22.59
16	22.61	22.45	23.12	23.14	22.43	23.74	22.79	22.43	22.35	22.61	22.55	22.46
17	22.50	22.78	23.86	23.26	23.23	23.65	22.77	22.35	22.31	22.47	22.45	22.29
18	22.41	22.92	23.66	23.20	24.51	23.50	22.73	22.27	22.25	22.40	22.30	22.25
19	22.64	22.79	23.36	23.10	24.82	23.59	22.70	22.19	22.22	22.30	22.34	22.22
20	22.72	22.71	23.16	23.04	24.62	24.03	22.69	22.15	22.20	22.44	22.43	22.81
21	22.73	22.65	23.06	23.16	24.42	24.20	22.73	22.15	22.17	22.59	22.46	23.35
22	22.72	22.53	23.11	22.92	24.37	24.31	22.73	22.15	22.16	22.72	22.50	24.01
23	22.69	22.35	23.09	22.61	24.39	24.22	22.70	22.13	22.13	22.75	22.55	24.45
24	22.69	22.63	23.44	22.53	24.43	24.10	22.67	22.11	22.12	22.77	22.48	23.73
25	22.67	22.47	23.19	22.50	24.40	24.00	22.64	22.09	22.15	22.56	22.54	23.18
26	22.67	22.48	22.91	22.67	24.34	23.97	22.65	22.08	22.17	22.38	22.55	23.24
27	22.72	22.46	23.55	22.81	24.23	23.99	22.67	22.07	22.15	22.45	22.54	23.74
28	22.71	22.43	23.45	22.88	24.07	23.91	22.67	22.25	22.16	22.43	22.47	23.87
29	22.75	22.36	23.51	22.83	---	23.80	22.67	22.57	22.15	22.55	22.45	23.87
30	22.72	22.31	23.49	22.72	---	23.81	22.68	22.63	22.13	22.54	22.35	23.80
31	22.82	---	23.41	22.56	---	23.97	---	22.48	---	22.54	22.34	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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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 mi², 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 ft³/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 back-water prior to failure of Tampa power dam, 2.1 mi below former gage. A discharge of 16,500 ft³/s, was measured Sept. 9, 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1670	1300	270	1460	1440	1870	2050	135	.20	.20	137	80
2	1460	1580	156	1400	1380	1690	1840	13	.20	.20	137	155
3	1140	1990	308	1650	887	1770	1770	6.5	.20	.20	120	209
4	1340	2550	1160	1720	1250	1670	1520	5.4	.20	.20	16	438
5	1500	2820	844	1590	1630	1650	1130	11	.20	.20	38	698
6	1920	2420	1600	1740	2090	2320	756	17	.20	.20	115	688
7	1970	1810	1890	1900	2390	2170	691	15	.20	.20	275	1090
8	1790	1640	2050	1960	2380	2150	794	14	.20	.20	269	1060
9	1510	1380	2090	1960	2140	2200	499	13	.20	.20	210	1150
10	1270	1310	2010	2090	1920	2140	444	3.8	.20	7.4	329	1210
11	1030	1050	2330	2210	1650	2300	350	2.6	.20	.20	422	1280
12	515	875	2180	2150	1410	2360	212	1.3	.20	.40	528	1320
13	460	870	2630	2440	1370	2230	447	.20	.20	2.2	460	1310
14	463	1030	1850	2470	1550	1940	187	.20	.20	1.3	440	1140
15	418	938	1800	1890	1490	2090	187	.20	.20	2.3	337	940
16	402	1090	2150	1880	1980	2140	181	.20	.20	.20	399	825
17	400	1260	2420	2320	2050	1950	170	.20	.20	.20	402	658
18	169	1470	2600	2110	3160	2010	160	.20	.20	.20	257	574
19	14	1370	2380	2030	2670	2870	146	.20	.20	116	203	703
20	76	1150	2170	1860	2950	2460	87	.20	.20	81	363	1370
21	81	1050	1850	1850	2200	1880	81	.20	.20	346	388	1310
22	74	954	1890	1960	2240	2560	78	.20	.20	696	369	2520
23	69	670	1940	1940	1990	2480	68	.20	.20	739	365	2860
24	67	543	2020	1710	1970	2160	63	.20	.20	778	407	103
25	63	473	2220	1630	1990	1870	55	.20	.20	761	419	756
26	47	437	1980	1780	1940	1910	2.6	.20	.20	542	439	471
27	260	437	2670	1790	1910	2120	8.7	.20	.20	406	439	667
28	137	437	1770	1800	1910	2200	10	.20	.20	264	330	1430
29	159	338	1830	1800	---	2040	10	.20	.20	158	290	1310
30	253	481	1500	1690	---	1970	176	12	.20	158	190	1280
31	1130	---	1590	1660	---	2030	---	.20	---	138	137	---
TOTAL	21857	35723	56148	58440	53937	65200	14173.3	253.20	6.00	5199.20	9230	29605
MEAN	705	1191	1811	1885	1926	2103	472	8.17	.20	168	298	987
MAX	1970	2820	2670	2470	3160	2870	2050	135	.20	778	528	2860
MIN	14	338	156	1400	887	1650	2.6	.20	.20	.20	16	80
AC-FT	43350	70860	111400	115900	107000	129300	28110	502	12	10310	18310	58720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1998, BY WATER YEAR (WY)

	MEAN	206	210	296	324	519	300	80.3	205	614	1072	1135
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	56.8
(WY)	1973	1992	1992	1992	1992	1992	1992	1985	1985	1993	1993	1990

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1939 - 1998
ANNUAL TOTAL	144396.06	349771.70	
ANNUAL MEAN	396	958	465
HIGHEST ANNUAL MEAN			1718
LOWEST ANNUAL MEAN			53.3
HIGHEST DAILY MEAN	2820	Nov 5	3160
LOWEST DAILY MEAN	.20	Jan 2	.20
ANNUAL SEVEN-DAY MINIMUM	.20	Jan 2	.20
INSTANTANEOUS PEAK FLOW			14600
INSTANTANEOUS PEAK STAGE			23.07
ANNUAL RUNOFF (AC-FT)	286400	693800	337200
10 PERCENT EXCEEDS	1650	2160	1330
50 PERCENT EXCEEDS	.20	696	151
90 PERCENT EXCEEDS	.20	.20	.20

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.66	22.36	22.06	21.39	20.93	20.85	21.90	22.63	22.47	22.02	22.38	22.25
2	21.67	22.05	22.28	21.44	20.86	20.90	21.83	22.62	22.49	21.97	22.34	22.26
3	21.50	21.72	22.34	21.34	20.78	20.94	21.86	22.60	22.49	21.94	22.25	22.34
4	21.71	21.93	22.20	21.22	21.24	20.94	21.50	22.60	22.48	21.92	22.28	22.26
5	21.75	21.77	21.99	21.23	21.24	21.11	21.44	22.61	22.48	21.92	22.43	22.23
6	21.98	21.51	22.10	21.30	21.22	21.29	21.49	22.63	22.46	22.03	22.48	22.11
7	21.91	21.70	21.69	21.14	21.27	21.21	21.78	22.63	22.43	22.14	22.40	21.99
8	21.91	21.75	21.62	21.05	21.23	21.25	21.72	22.62	22.42	22.27	22.24	21.92
9	21.92	21.74	21.51	21.23	21.20	21.22	21.94	22.62	22.40	22.37	22.29	22.03
10	22.24	21.59	21.38	21.29	21.27	21.39	22.16	22.58	22.46	22.51	22.46	21.84
11	22.13	21.29	21.20	21.23	21.28	21.60	22.40	22.58	22.45	22.52	22.48	21.90
12	22.39	21.35	21.09	21.31	21.50	21.46	22.58	22.57	22.43	22.53	22.44	21.85
13	22.63	21.22	21.44	21.65	21.66	21.15	22.58	22.52	22.40	22.53	22.39	21.84
14	22.53	21.49	21.32	21.15	21.39	21.42	22.65	22.47	22.35	22.53	22.38	21.85
15	22.45	21.66	21.44	20.85	20.98	21.64	22.69	22.42	22.32	22.54	22.34	21.92
16	22.46	21.58	21.16	21.07	20.79	21.46	22.68	22.36	22.28	22.49	22.41	21.96
17	22.36	21.74	21.71	21.12	21.11	21.42	22.66	22.28	22.24	22.36	22.31	21.89
18	22.29	21.75	21.59	21.14	21.49	21.32	22.64	22.20	22.19	22.29	22.18	21.95
19	22.55	21.60	21.29	21.13	21.16	21.26	22.60	22.12	22.16	22.21	22.24	21.92
20	22.63	21.73	21.13	21.22	20.86	21.06	22.60	22.08	22.13	22.35	22.31	22.01
21	22.64	21.88	21.22	21.53	20.79	21.10	22.64	22.08	22.11	22.43	22.30	21.75
22	22.62	21.90	21.50	21.32	20.73	21.14	22.63	22.08	22.10	22.41	22.32	21.52
23	22.61	21.85	21.35	20.98	20.85	21.07	22.61	22.06	22.07	22.35	22.35	20.79
24	22.61	22.34	21.58	21.02	21.12	21.14	22.58	22.04	22.06	22.38	22.28	20.31
25	22.59	22.17	21.44	21.01	21.16	21.30	22.55	22.03	22.09	22.17	22.33	20.36
26	22.59	22.23	21.19	21.08	21.14	21.62	22.58	22.02	22.10	22.06	22.32	20.13
27	22.62	22.23	21.38	21.13	21.08	21.81	22.61	22.01	22.08	22.23	22.32	21.11
28	22.61	22.21	21.14	21.25	20.87	21.65	22.61	22.21	22.10	22.26	22.30	21.26
29	22.65	22.17	21.18	21.27	---	21.55	22.61	22.51	22.09	22.44	22.31	21.40
30	22.59	22.10	21.41	21.26	---	21.70	22.62	22.56	22.07	22.45	22.24	21.55
31	22.57	---	21.57	21.22	---	21.90	---	22.40	---	22.46	22.25	---
MEAN	22.30	21.82	21.53	21.21	21.11	21.32	22.32	22.38	22.28	22.29	22.33	21.68
MAX	22.65	22.36	22.34	21.65	21.66	21.90	22.69	22.63	22.49	22.54	22.48	22.34
MIN	21.50	21.22	21.09	20.85	20.73	20.85	21.44	22.01	22.06	21.92	22.18	20.13
CAL YR 1997	MEAN 22.07		MAX 22.67	MIN 20.75								
WTR YR 1998	MEAN 21.89		MAX 22.69	MIN 20.13								

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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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 mi², 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, 2.19 ft below NGVD, Mar. 7, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.13 ft, Dec. 27; minimum, 1.60 ft below NGVD, June 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	---	---	---	---	2.90	- .47	2.72	1.99	3.13	2.25	3.92	2.86
2	---	---	---	---	1.61	-1.52	2.77	1.96	4.60	2.15	3.35	2.66
3	---	---	---	---	1.73	-.22	3.28	2.56	3.91	2.05	3.56	2.91
4	---	---	---	---	3.88	1.17	3.31	2.85	3.43	2.50	3.27	2.74
5	---	---	---	---	2.31	1.32	3.25	2.52	3.65	2.50	4.33	2.51
6	---	---	---	---	3.87	1.45	3.67	2.74	4.11	3.24	4.36	3.80
7	---	---	---	---	---	---	4.04	3.01	4.13	3.61	4.46	3.57
8	---	---	---	---	---	---	4.57	3.12	4.18	3.62	4.92	3.66
9	---	---	---	---	---	---	3.88	3.24	4.03	3.33	5.29	3.70
10	---	---	---	---	---	---	4.00	3.39	3.83	3.19	3.99	3.51
11	---	---	---	---	---	---	4.07	3.54	4.06	2.81	4.04	3.68
12	---	---	2.95	1.44	---	---	4.04	3.43	3.85	2.53	4.04	3.73
13	2.38	.69	3.70	1.62	---	---	4.36	3.98	3.35	2.54	4.01	3.16
14	2.38	.63	3.55	1.65	---	---	4.57	3.26	3.34	2.43	3.64	3.17
15	2.30	.28	2.76	1.41	---	---	3.81	3.14	4.28	2.43	3.95	3.30
16	2.31	.00	2.71	1.87	---	---	4.08	2.96	5.27	2.69	4.18	3.58
17	2.16	-.01	2.52	2.06	---	---	4.25	3.55	5.34	3.06	4.33	2.21
18	2.60	-.57	---	---	---	---	3.89	3.47	5.21	4.23	4.57	3.50
19	2.43	-.90	---	---	4.38	3.75	3.97	3.45	5.03	4.05	5.30	4.24
20	1.60	-.93	2.69	1.96	3.99	3.49	3.46	3.10	5.26	3.81	4.73	4.05
21	1.87	-.69	2.64	1.77	3.84	2.99	3.69	2.94	3.90	3.51	4.28	3.83
22	2.08	-.23	2.46	1.75	3.89	3.10	4.08	3.22	5.24	3.47	4.37	3.86
23	1.93	-.51	2.38	-.04	3.77	3.33	4.68	3.21	5.28	3.20	4.32	3.86
24	2.64	.57	1.31	-.23	4.39	3.38	3.72	2.81	3.76	3.26	4.05	3.43
25	2.38	.25	1.54	.28	4.39	3.84	3.28	2.41	3.77	3.24	3.93	2.99
26	2.42	.81	1.78	.34	4.32	3.24	3.80	2.70	4.01	3.19	3.69	3.06
27	3.62	.58	1.86	.31	7.13	3.27	4.04	3.02	4.46	3.30	4.22	3.52
28	1.70	-.46	2.22	.34	3.52	2.79	3.81	2.93	4.27	2.91	4.38	3.70
29	1.60	-.41	2.40	-.16	4.00	2.90	3.66	2.94	---	---	4.30	3.30
30	2.07	-.32	2.98	.35	3.45	2.47	3.77	2.70	---	---	4.05	3.29
31	---	---	---	---	3.24	2.60	3.53	2.71	---	---	4.45	3.33
MONTH	---	---	---	---	---	---	4.68	1.96	5.34	2.05	5.30	2.21

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.35	3.50	2.01	-1.11	1.66	-.89	1.70	-.23	1.86	-.50	2.22	-.47
2	3.75	3.21	1.36	-1.23	1.82	-.32	1.52	-.46	1.89	-.56	2.57	.41
3	3.74	3.01	1.34	-1.22	1.56	-.40	1.23	-1.01	2.05	-.86	4.73	1.07
4	3.33	2.68	1.80	-.73	1.79	-.34	1.47	-1.13	1.95	-1.10	2.58	.59
5	2.68	1.72	1.91	-.50	2.04	-.71	1.56	-1.07	2.15	-.95	3.00	.75
6	2.08	1.04	1.69	-.59	2.17	-.53	2.10	-1.15	2.39	-.46	2.99	.95
7	2.57	.72	2.39	-.35	2.07	-1.06	2.58	-1.05	2.51	.34	3.04	1.51
8	2.86	1.36	2.69	.19	1.76	-1.45	2.28	-1.41	2.96	-.47	3.29	1.56
9	2.82	.97	2.32	-.60	2.32	-1.30	2.59	-1.23	2.36	-.42	3.66	1.80
10	1.96	.16	2.68	.00	2.32	-1.37	3.01	-1.02	2.30	-.44	3.50	2.09
11	1.03	-.03	2.07	-1.05	2.28	-1.33	2.39	-1.20	2.33	.11	3.26	2.40
12	1.25	-1.06	2.10	-1.13	2.12	-1.28	3.20	-1.19	2.27	.48	3.37	2.53
13	3.19	-.98	1.99	-1.26	1.98	-1.26	2.50	-1.04	1.82	.45	3.29	2.40
14	2.43	-.30	2.15	-1.17	2.17	-1.04	2.05	-.05	1.98	.38	3.03	2.09
15	2.35	-.29	2.01	-1.24	2.12	-.88	2.88	.07	1.90	-.16	2.85	1.59
16	2.79	-.30	2.15	-1.30	2.21	-.56	1.89	-.08	3.28	-.16	3.05	1.51
17	2.21	-.21	2.49	-.97	1.74	-.50	1.89	-.13	2.11	-.08	3.34	1.10
18	2.15	-.45	1.98	-.77	1.75	-.65	2.02	-.32	2.13	-.74	3.20	1.28
19	2.77	-.46	1.54	-.70	1.91	-.93	1.93	-1.20	2.57	-.52	4.61	1.62
20	1.54	-.48	1.61	-1.08	2.10	-1.22	2.23	-1.08	3.87	.20	5.22	2.04
21	1.54	-.97	1.73	-1.03	2.07	-1.41	2.28	.29	2.25	.12	3.69	2.32
22	1.52	-.96	1.91	-.99	2.07	-1.60	3.09	.78	2.43	.15	5.17	3.06
23	1.55	-.81	2.44	-1.04	2.22	-1.55	3.00	1.05	2.36	.31	5.12	1.00
24	1.40	-1.06	2.32	-1.25	2.57	-1.47	2.87	1.08	2.22	.17	1.89	-.39
25	1.77	-1.32	2.58	-1.21	2.10	-1.44	2.68	1.07	2.22	.17	4.32	-.36
26	2.21	-1.26	2.76	-1.02	2.31	-1.34	2.42	.13	2.16	.58	3.74	.75
27	2.35	-1.28	2.58	-1.28	2.36	-1.28	2.13	.11	2.25	.69	4.05	.06
28	2.44	-1.45	4.19	-1.16	1.77	-1.28	1.76	-.29	2.21	.28	3.79	2.64
29	2.38	-1.45	2.17	-1.16	1.58	-1.10	1.55	-.33	2.14	.25	3.53	2.57
30	2.53	-1.17	2.27	-1.13	1.76	-.98	2.10	-.02	2.03	-.20	3.80	2.75
31	---	---	1.65	-.37	---	---	2.02	-.07	2.46	-.43	---	---
MONTH	4.35	-1.45	4.19	-1.30	2.57	-1.60	3.20	-1.41	3.87	-1.10	5.22	-.47

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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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 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, 16,000 microsiemens, Feb. 8, 1997; bottom probe maximum, 16,200 microsiemens, Feb. 8, 1997; 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, 31.4°C, June 17, 1997; top probe minimum, 9.9°C, June 18, 1997; bottom probe minimum, 12.4°C, Jan. 19, 1997.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 5,770 microsiemens, July 7; bottom probe maximum, 6,870 microsiemens, June 11; top probe minimum, 82 microsiemens, Dec. 18; bottom probe minimum, 87 microsiemens, Dec. 18.

TEMPERATURE.--Top probe maximum, 33.5°C, June 18; bottom probe maximum, 31.2°C, June 18, July 1-5; top probe minimum, 13.5°C, Feb. 8, 10; bottom probe minimum, 13.3°C, Feb. 8-10.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	113	104	303	286	238	229	117	112	192	184	127	121
2	110	105	289	258	256	238	120	115	200	189	131	126
3	106	102	258	201	248	241	120	117	202	192	130	126
4	117	102	202	163	250	226	117	109	205	198	127	121
5	115	106	163	142	253	245	115	109	201	188	127	122
6	116	108	143	140	262	250	118	113	189	177	124	117
7	128	115	149	143	250	201	122	115	179	176	123	117
8	146	128	158	149	201	173	132	118	177	170	125	121
9	166	146	167	157	173	152	136	128	170	167	128	122
10	177	165	178	167	154	152	133	130	170	167	131	127
11	186	177	187	178	158	148	136	131	172	168	134	127
12	193	183	197	187	161	149	141	136	175	171	139	133
13	202	192	201	197	149	125	142	138	176	173	146	138
14	209	201	208	197	128	122	150	139	177	174	145	142
15	226	207	217	208	127	121	155	148	182	176	143	139
16	233	214	220	209	122	116	156	151	181	171	140	137
17	233	221	209	191	119	93	156	153	179	170	142	137
18	257	231	191	185	97	82	161	154	170	148	142	138
19	---	---	187	184	105	97	166	160	148	142	140	129
20	---	---	185	182	108	104	168	164	143	130	142	135
21	272	259	186	181	111	106	172	168	132	119	139	123
22	274	248	191	185	112	108	183	170	120	112	123	104
23	275	262	197	189	117	111	192	183	115	111	104	100
24	274	266	202	195	120	113	188	183	115	110	100	94
25	277	266	208	201	125	113	188	184	116	111	95	91
26	278	271	213	206	135	125	187	184	114	110	95	91
27	283	266	215	211	135	118	185	183	117	111	97	91
28	---	---	221	212	132	122	187	184	122	116	104	96
29	---	---	226	218	127	124	187	183	---	---	111	104
30	---	---	230	225	126	121	185	182	---	---	114	109
31	300	263	---	---	121	113	187	183	---	---	115	112
MONTH	---	---	303	140	262	82	192	109	205	110	146	91

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	122	114	276	263	347	325	4010	3930	280	275	255	243
2	131	122	280	267	369	346	3970	3830	283	276	254	242
3	137	130	288	272	504	369	3930	3780	285	275	283	206
4	145	137	287	274	749	430	4030	3730	324	129	244	218
5	151	144	286	263	1400	553	4380	3700	318	277	247	237
6	158	149	283	272	2200	921	5170	3660	285	277	273	182
7	164	158	282	276	2700	1220	5770	4020	286	268	272	240
8	171	164	289	279	3230	2170	5250	3420	283	276	240	214
9	182	169	295	284	5080	2780	4840	3900	286	164	214	195
10	188	174	304	289	5210	3470	4390	396	290	279	195	185
11	190	182	308	299	5420	3800	402	391	299	280	191	174
12	216	184	363	302	5260	3850	436	338	311	296	175	166
13	205	188	646	316	5150	4260	364	339	309	293	166	161
14	203	196	1080	394	5090	4420	368	358	293	277	165	160
15	204	199	1390	558	4980	4210	364	339	280	266	167	161
16	209	202	1750	782	4890	4200	349	316	269	244	172	167
17	212	205	2210	1040	4810	4210	324	312	259	248	176	171
18	218	210	2390	1220	4770	4200	313	305	250	243	184	174
19	219	215	2580	1330	4790	4180	310	302	251	239	190	176
20	226	217	2960	1650	5080	4090	314	304	250	225	186	162
21	237	225	3670	2000	5540	3390	310	303	235	227	209	178
22	256	232	4040	2400	5440	4220	322	309	239	230	185	131
23	250	238	4670	2710	5400	4640	363	321	243	232	131	120
24	249	241	4580	3010	5180	3900	367	340	257	242	154	118
25	250	240	4610	3360	4620	3900	343	299	269	255	188	138
26	260	246	4590	3520	4490	4160	300	285	265	259	160	147
27	269	255	4410	3500	4350	4110	364	280	260	249	1100	126
28	300	256	4230	1430	4160	4020	282	278	253	245	156	125
29	282	259	1920	1520	4070	4000	282	277	251	244	126	117
30	284	262	1900	300	4060	3950	283	277	251	244	137	121
31	---	---	326	307	---	---	281	277	250	246	---	---
MONTH	300	114	4670	263	5540	325	5770	277	324	129	1100	117

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	114	108	301	285	233	222	115	110	198	190	124	118
2	110	104	285	255	240	230	118	114	207	196	129	124
3	106	103	255	199	240	234	119	116	210	198	127	123
4	117	103	199	165	242	222	116	106	214	207	125	121
5	115	105	165	146	246	240	114	107	210	185	125	121
6	114	106	146	144	255	245	116	112	185	173	123	116
7	127	114	152	145	245	196	119	114	175	172	122	117
8	146	127	160	152	197	171	129	117	173	166	122	119
9	165	146	168	160	171	152	135	126	167	163	126	121
10	175	164	179	168	154	151	132	128	166	163	128	125
11	184	175	187	178	158	147	135	129	168	164	131	126
12	191	183	196	187	163	150	139	135	171	167	136	131
13	200	190	200	195	151	128	140	137	173	169	146	136
14	206	199	205	196	129	125	149	138	173	171	144	141
15	213	204	213	204	129	125	154	147	177	172	143	138
16	227	212	216	207	126	120	156	150	177	167	139	137
17	231	221	207	190	122	97	156	153	175	166	140	136
18	258	229	190	183	97	87	163	156	166	145	140	137
19	267	243	186	183	103	93	168	162	146	139	139	130
20	259	239	183	181	105	102	172	166	141	128	141	134
21	266	251	184	180	107	104	174	170	129	118	137	121
22	264	258	188	183	108	105	185	173	118	110	121	105
23	271	260	194	187	114	107	194	185	111	109	105	99
24	274	265	199	193	116	109	193	185	112	108	100	92
25	276	267	204	198	122	109	192	188	113	109	93	90
26	279	271	209	202	134	121	191	189	112	108	93	90
27	285	268	211	207	133	116	190	188	114	109	96	91
28	289	269	216	208	131	119	192	189	120	113	104	94
29	289	279	221	211	124	122	192	187	---	---	110	103
30	291	280	224	220	124	119	191	187	---	---	112	109
31	300	264	---	---	119	113	192	188	---	---	115	111
MONTH	300	103	301	144	255	87	194	106	214	108	146	90

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	121	114	281	255	370	324	4700	4610	254	246	235	221
2	129	121	277	262	406	340	4660	4120	254	246	233	220
3	134	128	284	266	513	373	4140	3990	255	248	291	217
4	143	134	288	269	807	473	4020	3850	334	249	250	208
5	149	142	276	270	1470	760	4180	3700	302	247	221	211
6	155	149	284	267	2400	1450	4890	3870	262	247	261	150
7	162	155	291	269	2930	2220	5370	4440	291	239	243	216
8	169	161	292	272	4570	2660	4820	4170	250	242	216	191
9	179	167	292	276	6600	3690	4580	3970	288	142	200	173
10	182	170	300	280	6570	5710	5140	1460	258	240	173	163
11	185	177	321	288	6870	6020	1460	608	265	246	169	153
12	191	181	375	305	6670	6250	611	335	277	256	155	147
13	204	185	721	329	6290	6040	391	331	277	264	149	143
14	198	193	1130	544	6090	5840	691	323	265	251	146	143
15	200	195	1420	862	6000	5810	327	308	253	240	149	144
16	205	197	1760	1050	5910	5620	311	291	272	219	153	146
17	207	200	2170	1440	5810	5470	659	284	267	219	158	150
18	211	206	2370	1760	5700	5360	296	275	225	219	164	155
19	215	210	2610	2090	5760	5350	700	272	223	213	166	157
20	220	213	2920	2140	6140	5410	346	271	251	195	166	145
21	229	220	3530	2590	6690	5850	275	268	214	204	177	158
22	245	226	4150	3240	6630	5920	806	270	217	204	173	124
23	249	235	4650	3720	6500	6090	806	283	217	205	125	113
24	249	235	4670	4010	6190	5570	321	299	229	210	166	120
25	244	236	4630	4070	5620	5060	300	262	243	223	192	126
26	255	237	4580	4090	5420	4960	804	254	241	232	149	135
27	261	247	4340	3650	5220	4900	257	248	234	222	152	137
28	287	252	4180	2250	4920	4750	255	247	228	218	140	113
29	280	251	2250	1690	4810	4700	257	249	226	219	115	107
30	275	256	1850	354	4750	4640	266	249	226	219	119	107
31	---	---	362	322	---	---	274	246	226	219	---	---
MONTH	287	114	4670	255	6870	324	5370	246	334	142	291	107

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT BELOW SURFACE)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	26.3	25.8	22.6	21.4	19.5	18.4	15.2	14.0	15.6	14.6	19.2	18.5
2	26.7	25.8	22.5	21.8	19.8	18.2	14.6	13.6	16.0	14.9	19.2	18.3
3	26.7	25.5	22.2	21.4	19.7	18.8	15.0	13.8	17.1	15.6	18.5	17.9
4	26.4	25.8	22.0	20.8	19.6	19.1	15.9	14.5	16.9	16.4	18.2	17.6
5	26.7	25.8	20.8	20.1	19.5	18.8	17.3	15.6	16.6	15.6	18.0	16.8
6	26.2	25.3	20.2	19.7	18.9	17.5	17.9	16.7	16.2	15.1	17.9	16.7
7	26.2	24.9	19.9	19.4	17.6	15.6	18.8	17.6	15.1	13.8	18.2	17.2
8	26.2	24.9	19.6	18.8	15.8	14.3	19.8	18.8	14.0	13.5	19.1	17.9
9	26.2	24.9	18.9	18.2	15.1	14.3	20.2	19.7	14.0	13.6	19.4	18.8
10	26.2	24.9	18.6	17.9	16.2	15.1	19.9	19.1	14.4	13.5	18.9	17.9
11	26.2	24.9	18.7	17.9	17.9	16.2	19.3	18.5	14.6	13.6	18.0	16.7
12	26.2	24.9	18.9	18.2	18.7	17.9	18.6	17.9	15.7	14.3	16.8	15.6
13	26.2	24.9	19.8	18.8	18.9	18.7	18.0	17.6	15.7	15.1	15.8	15.0
14	26.7	24.9	20.6	19.7	18.9	18.2	17.6	17.3	15.6	15.0	15.1	14.6
15	26.2	24.9	21.1	20.4	18.3	16.7	17.9	17.6	15.6	15.1	15.3	14.5
16	26.7	24.6	21.1	20.4	16.8	15.8	18.2	17.8	16.5	15.3	15.6	14.5
17	25.8	24.5	20.6	18.8	16.0	15.3	18.0	17.6	18.4	16.4	16.3	15.1
18	25.4	24.2	18.9	17.6	15.5	15.0	18.0	17.3	19.1	17.9	16.8	15.6
19	---	---	17.6	16.8	15.1	14.5	17.6	17.2	19.3	18.8	17.4	16.7
20	---	---	17.9	16.5	15.1	14.5	17.3	16.7	19.6	19.1	18.3	17.3
21	24.9	22.5	18.8	17.0	15.4	14.8	16.8	16.4	19.8	19.0	18.3	17.9
22	23.7	22.4	19.1	17.9	16.5	15.1	17.5	16.4	19.4	18.9	18.1	17.4
23	24.1	22.6	19.7	18.8	17.0	16.0	18.0	17.2	19.2	18.5	17.6	17.0
24	23.7	22.6	19.3	18.5	17.7	16.7	18.3	17.9	18.6	17.9	17.9	17.0
25	24.9	23.3	19.1	17.9	18.6	17.6	18.0	17.3	19.1	17.9	18.2	17.0
26	25.0	23.6	19.5	18.2	19.2	18.5	17.4	16.3	18.8	17.9	18.3	17.1
27	24.9	23.6	19.8	18.5	19.9	19.1	16.5	16.1	18.8	17.9	18.8	17.3
28	---	---	20.4	18.8	19.2	17.6	16.2	15.6	18.9	18.2	19.1	17.9
29	---	---	19.8	19.1	17.7	16.2	16.0	15.6	---	---	20.4	18.5
30	---	---	19.9	19.1	16.2	15.3	15.7	15.3	---	---	20.8	19.4
31	22.7	21.8	---	---	15.5	15.0	15.6	15.1	---	---	21.5	20.1
MONTH	---	---	22.6	16.5	19.9	14.3	20.2	13.6	19.8	13.5	21.5	14.5
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	22.2	20.6	26.3	24.0	30.1	27.6	31.7	29.5	30.1	29.0	31.0	29.0
2	23.0	21.4	26.3	23.7	31.2	28.1	32.9	30.1	30.5	28.5	30.0	28.5
3	23.5	22.2	26.2	23.8	32.3	28.5	32.9	30.1	30.0	28.5	29.6	27.6
4	23.4	22.9	25.5	24.0	32.9	28.5	32.9	30.1	29.6	28.5	29.6	28.5
5	23.3	22.5	26.2	22.9	32.9	29.0	31.7	30.1	30.5	28.0	30.0	28.5
6	24.1	22.6	27.6	23.7	32.6	29.3	31.2	29.7	30.1	28.0	29.4	27.1
7	23.3	22.6	28.1	24.9	32.2	29.2	30.1	29.0	30.3	28.5	28.6	28.0
8	23.3	22.5	27.7	25.8	31.2	28.5	30.1	28.1	30.1	28.5	28.1	27.6
9	23.4	22.7	28.6	25.8	30.1	28.0	29.6	28.5	30.6	28.1	28.1	27.6
10	22.7	21.8	28.0	26.7	31.1	28.0	29.6	26.2	30.1	28.6	27.6	26.6
11	23.0	21.5	28.2	26.2	30.6	28.5	31.2	29.0	30.2	29.0	27.1	26.2
12	23.7	20.8	28.1	26.4	31.2	28.5	31.2	29.5	30.2	29.1	27.1	26.2
13	23.0	21.5	29.1	26.2	30.8	29.2	30.2	28.5	30.3	29.5	27.1	26.2
14	22.9	21.9	28.6	26.2	30.7	29.1	30.2	29.5	30.3	29.5	27.1	25.8
15	23.3	22.2	28.1	26.2	30.6	29.0	29.6	29.0	30.6	29.5	27.1	25.9
16	23.7	22.2	28.0	25.9	30.7	29.5	29.0	28.3	30.6	29.5	27.1	26.2
17	24.5	22.7	27.3	25.8	32.3	29.6	29.1	28.0	30.6	29.5	26.7	26.2
18	25.8	22.9	28.1	25.9	33.5	29.8	29.6	28.0	31.2	29.5	26.7	26.2
19	25.4	23.7	28.5	26.2	31.7	30.1	30.6	28.5	31.2	29.1	26.7	26.2
20	24.9	23.7	29.6	26.2	32.5	29.5	31.2	28.5	30.6	29.3	26.2	25.8
21	26.2	23.3	30.1	26.2	31.2	29.6	30.6	28.5	30.0	28.7	26.7	25.8
22	24.9	22.2	30.1	26.7	31.7	29.1	30.6	29.4	30.0	28.0	27.1	26.2
23	24.5	22.0	30.1	26.7	32.1	29.0	30.6	29.4	30.1	28.0	26.7	26.2
24	24.5	21.8	29.8	27.1	31.2	29.5	30.1	28.5	30.1	28.5	28.6	25.3
25	24.9	21.6	30.1	27.1	30.1	29.0	30.1	28.8	29.6	28.4	27.6	26.2
26	24.5	21.8	28.6	27.6	30.1	28.5	30.1	28.8	29.6	28.5	27.1	26.2
27	25.8	22.9	28.5	27.2	30.1	28.5	30.1	28.5	30.1	28.5	30.6	26.2
28	25.4	23.7	27.3	24.9	30.6	28.0	30.2	28.6	30.6	28.5	27.7	26.2
29	25.8	24.1	27.6	24.9	30.6	29.3	30.6	28.5	30.6	29.2	28.0	26.2
30	25.0	23.5	27.6	24.9	30.6	29.0	30.6	29.0	31.1	29.5	27.1	26.2
31	---	---	28.7	27.1	---	---	30.6	29.5	30.6	29.5	---	---
MONTH	26.2	20.6	30.1	22.9	33.5	27.6	32.9	26.2	31.2	28.0	31.0	25.3

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN

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02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
(1 FT ABOVE BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	26.4	25.6	22.6	21.5	19.3	18.2	14.9	13.8	15.6	14.6	19.3	18.5
2	26.4	25.8	22.3	21.5	19.7	18.0	14.4	13.5	15.7	14.8	19.0	18.3
3	26.3	25.4	22.0	21.5	19.6	18.8	14.8	13.6	17.1	15.6	18.5	17.9
4	26.3	25.5	21.7	20.5	19.6	19.1	15.8	14.3	16.9	16.3	18.1	17.4
5	26.3	25.4	20.6	19.8	19.3	18.6	17.1	15.6	16.5	15.5	18.0	16.7
6	25.9	25.1	20.0	19.5	18.6	17.3	18.0	16.4	16.0	14.9	17.9	16.7
7	25.8	24.9	19.9	19.3	17.4	15.6	18.9	17.4	14.9	13.8	18.2	17.0
8	25.9	24.9	19.3	18.6	15.7	14.1	19.9	18.8	13.9	13.3	19.0	17.7
9	25.8	24.9	18.6	18.0	15.0	14.1	19.9	19.5	13.9	13.3	19.3	18.8
10	26.1	24.9	18.5	17.7	16.1	14.8	19.6	19.1	14.3	13.3	19.0	17.7
11	25.8	24.9	18.5	17.6	17.7	16.1	19.3	18.4	14.6	13.5	17.8	16.7
12	26.2	24.9	18.9	18.2	18.6	17.7	18.4	17.9	15.7	14.3	16.8	15.6
13	26.2	24.9	19.6	18.8	18.9	18.5	17.9	17.3	15.5	15.1	15.7	14.8
14	26.3	24.9	20.6	19.5	18.9	18.0	17.4	17.2	15.7	14.8	15.1	14.5
15	26.3	24.9	20.9	20.2	18.1	16.6	17.8	17.3	15.7	14.8	15.1	14.3
16	26.3	25.0	20.9	20.5	16.6	15.7	18.2	17.6	16.4	15.3	15.7	14.4
17	25.9	24.7	20.6	18.8	15.8	15.3	18.0	17.6	18.3	16.2	16.2	14.8
18	25.1	24.5	18.9	17.5	15.4	14.8	17.7	17.3	18.9	17.9	16.8	15.6
19	24.6	22.9	17.6	16.8	15.1	14.4	17.5	17.0	19.2	18.6	17.4	16.7
20	25.4	23.0	17.8	16.5	15.0	14.4	17.2	16.7	19.5	18.8	18.3	17.3
21	25.0	22.6	18.8	17.0	15.2	14.7	16.8	16.4	19.4	18.8	18.3	17.9
22	23.8	22.2	19.2	17.9	16.4	15.0	17.4	16.4	19.2	18.8	18.0	17.3
23	24.5	22.6	19.5	18.6	16.8	15.9	18.0	17.0	19.3	18.3	17.6	16.9
24	23.8	22.6	19.2	18.5	17.7	16.7	18.3	17.9	18.3	17.9	18.0	16.9
25	24.5	23.0	19.2	17.9	18.3	17.6	18.0	17.3	18.9	17.9	18.0	16.7
26	25.0	23.3	19.4	17.9	19.0	18.3	17.4	16.2	18.8	17.9	18.3	16.9
27	24.9	23.4	19.8	18.3	19.6	18.8	16.4	15.9	18.6	17.9	18.7	17.4
28	23.8	22.6	20.2	18.8	19.3	17.6	16.0	15.6	18.9	17.9	18.9	17.9
29	23.0	21.8	19.9	19.1	17.7	15.9	16.0	15.4	---	---	20.2	18.3
30	23.0	21.8	19.7	19.1	16.0	15.1	15.7	15.1	---	---	20.8	19.2
31	22.7	21.5	---	---	15.5	14.8	15.4	14.8	---	---	21.4	20.0
MONTH	26.4	21.5	22.6	16.5	19.7	14.1	19.9	13.5	19.5	13.3	21.4	14.3
DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	22.2	20.5	25.3	23.7	28.2	27.5	31.2	29.5	30.1	29.0	30.6	28.7
2	23.0	21.5	25.1	22.9	28.6	28.1	31.2	30.1	30.1	28.5	29.6	28.5
3	23.4	22.3	25.1	23.3	29.7	28.1	31.2	30.1	29.6	28.5	29.5	27.6
4	23.5	23.0	25.2	23.8	30.1	28.5	31.2	30.1	29.1	28.1	29.6	28.5
5	23.4	22.6	25.0	23.0	30.2	28.6	31.2	30.1	28.6	28.0	29.6	28.0
6	23.8	22.6	25.2	23.7	30.7	29.1	30.2	29.6	29.9	28.0	29.1	27.1
7	23.4	22.6	27.2	24.8	30.2	29.0	29.9	28.7	30.1	28.2	28.6	28.0
8	23.4	22.4	27.3	25.8	29.7	28.6	29.4	28.1	29.6	28.5	28.1	27.5
9	23.2	22.7	28.0	25.5	29.1	28.1	29.2	28.1	30.6	28.1	28.1	27.4
10	22.8	21.9	27.7	26.2	28.6	28.1	29.6	26.2	30.1	28.5	27.6	26.6
11	23.1	21.5	27.3	26.2	29.2	28.6	30.1	28.5	30.1	28.6	27.1	26.2
12	23.4	20.8	27.7	26.2	29.7	28.6	30.6	29.5	30.1	29.0	27.1	26.2
13	23.1	21.5	27.3	26.2	30.2	29.1	30.1	28.1	30.1	29.3	27.1	25.8
14	23.0	21.9	27.4	26.2	30.2	29.1	30.1	29.5	30.1	29.3	27.0	25.8
15	23.4	22.1	27.4	26.2	30.3	29.0	29.6	28.5	30.1	29.5	27.1	25.8
16	23.8	22.2	27.4	25.8	30.3	29.1	28.6	28.1	30.6	29.1	26.7	25.8
17	24.5	22.6	26.9	25.8	30.7	29.6	28.6	28.0	30.6	29.2	26.7	26.2
18	25.6	23.0	27.0	25.8	31.2	29.6	29.6	28.0	30.6	29.3	26.2	26.0
19	25.4	23.6	27.1	26.2	30.7	29.7	30.6	28.3	31.0	29.0	26.7	26.0
20	25.1	23.7	27.2	26.2	30.7	29.2	31.1	28.5	30.2	29.0	26.2	25.8
21	25.9	23.3	27.7	26.2	30.3	29.6	30.3	28.5	29.6	28.5	26.7	25.8
22	25.0	22.1	28.2	26.7	30.2	29.1	30.6	29.1	29.6	28.0	26.7	25.9
23	24.2	21.9	28.2	26.9	30.3	29.0	30.6	29.3	29.6	28.0	26.7	26.2
24	24.2	21.9	28.2	27.1	30.6	29.3	30.1	28.5	30.1	28.0	27.6	26.2
25	25.0	21.5	28.2	27.2	30.1	29.0	30.1	28.6	29.6	28.1	27.5	26.6
26	24.2	21.5	28.2	27.6	29.6	28.5	30.0	28.5	29.5	28.5	26.7	26.2
27	25.1	22.6	28.2	27.2	29.6	28.5	30.1	28.5	29.9	28.5	27.5	26.2
28	25.1	23.0	27.3	25.4	30.0	28.1	30.1	28.5	30.6	28.5	27.6	26.2
29	25.4	24.1	26.3	24.9	30.2	29.0	30.1	28.5	30.6	29.0	27.6	26.2
30	25.2	24.5	27.7	24.9	30.6	29.0	30.6	29.0	30.6	29.5	27.1	26.2
31	---	---	28.2	27.1	---	---	30.6	29.3	30.6	29.3	---	---
MONTH	25.9	20.5	28.2	22.9	31.2	27.5	31.2	26.2	31.0	28.0	30.6	25.8

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
HILLSBOROUGH RIVER BASIN**

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL

LOCATION.--Lat 28°01'15", long 82°27'07", in NE 1/4 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	45	37	51	40	50	40	38	37	35	40	39
2	40	43	36	51	41	51	39	37	36	35	40	39
3	40	42	36	51	45	51	42	37	36	34	40	39
4	40	42	41	51	43	51	45	37	37	34	40	40
5	40	42	41	51	43	51	44	37	38	35	40	41
6	41	41	41	51	42	50	43	37	37	35	40	41
7	42	41	40	50	41	50	43	39	36	35	39	43
8	42	41	40	50	41	49	43	38	35	35	40	42
9	42	41	40	38	40	49	43	37	35	35	41	42
10	42	41	41	40	40	51	42	37	35	36	42	42
11	42	41	43	42	41	38	42	36	35	38	42	43
12	41	40	44	42	41	34	43	36	35	38	41	43
13	41	41	49	43	41	36	43	38	35	40	40	42
14	41	43	51	43	40	37	43	37	35	40	40	41
15	41	42	51	44	41	37	43	35	35	42	39	40
16	40	42	51	44	45	38	41	34	34	42	39	40
17	40	41	51	43	48	38	41	34	34	42	42	41
18	40	41	51	43	47	38	41	34	34	42	41	41
19	39	41	51	43	48	42	40	34	34	e41	40	41
20	39	40	51	42	51	46	40	34	34	e41	40	46
21	38	40	51	41	51	50	40	34	34	e41	41	50
22	37	39	51	41	52	51	39	34	34	e41	41	50
23	37	39	51	43	52	51	39	34	33	e41	41	51
24	37	38	50	43	52	51	39	34	33	e42	41	51
25	37	38	50	43	51	51	38	35	34	e42	40	51
26	37	38	51	43	51	51	38	35	36	e42	40	55
27	39	38	47	42	49	40	38	35	36	e42	40	54
28	40	38	51	42	50	37	38	36	37	42	40	55
29	39	38	50	42	---	39	38	38	36	41	40	58
30	38	38	51	41	---	40	38	38	36	40	39	55
31	40	---	51	41	---	40	---	38	---	40	39	---
TOTAL	1232	1215	1440	1375	1267	1388	1226	1117	1056	1209	1248	1356
MEAN	39.7	40.5	46.5	44.4	45.3	44.8	40.9	36.0	35.2	39.0	40.3	45.2
MAX	42	45	51	51	52	51	45	39	38	42	42	58
MIN	37	38	36	38	40	34	38	34	33	34	39	39

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1998, BY WATER YEAR (WY)

MEAN	44.0	39.0	37.5	38.3	38.6	39.5	33.5	28.7	31.5	38.4	45.9	47.8
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 1997 CALENDAR YEAR				FOR 1998 WATER YEAR				WATER YEARS 1960 - 1998			
ANNUAL TOTAL	12495				15129							
ANNUAL MEAN	34.2				41.4				38.6			
HIGHEST ANNUAL MEAN									67.6			1960
LOWEST ANNUAL MEAN									25.1			1985
HIGHEST DAILY MEAN	54			May 27	58			Sep 29	145			Mar 19 1960
LOWEST DAILY MEAN	23			Apr 15	33			Jun 23	.00			Jun 6 1994
ANNUAL SEVEN-DAY MINIMUM	23			Apr 15	34			Jun 18	.38			May 26 1981
10 PERCENT EXCEEDS	42				51				54			
50 PERCENT EXCEEDS	34				41				40			
90 PERCENT EXCEEDS	27				35				15			

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS

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02306500 SWEETWATER CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'35", long 82°30'42", in SW¹/₄ 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 mi².

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	75	4.8	66	23	53	22	1.5	2.9	1.7	23	24
2	17	38	4.2	63	43	50	14	1.3	2.3	1.5	21	22
3	15	16	3.5	62	69	48	23	1.2	2.0	1.5	18	31
4	13	18	29	60	61	45	28	1.3	1.8	1.4	16	39
5	12	15	29	57	54	44	25	1.4	1.7	8.2	20	37
6	8.9	10	20	57	50	42	22	1.3	1.7	4.0	21	37
7	7.4	9.0	19	61	46	41	16	1.3	1.6	9.7	22	68
8	6.3	6.7	18	70	44	40	10	1.2	1.5	16	29	65
9	5.7	5.6	16	67	42	49	13	1.2	1.5	11	31	65
10	5.2	5.3	23	61	33	46	14	1.2	1.5	39	47	57
11	4.7	4.7	64	56	13	41	12	1.2	1.5	45	41	62
12	4.0	4.3	101	52	3.8	37	8.8	1.2	1.5	42	33	69
13	3.4	2.6	146	50	20	28	5.3	1.2	1.5	54	27	66
14	1.1	32	134	49	22	9.7	3.1	1.3	1.4	32	24	52
15	.65	35	103	50	19	19	2.8	1.3	1.3	39	23	35
16	.56	20	91	50	62	12	2.2	1.2	1.3	50	26	31
17	.53	5.2	85	43	83	3.6	1.6	1.2	1.3	45	34	30
18	.88	5.8	75	38	72	17	1.4	1.2	1.3	27	32	33
19	1.5	7.2	67	36	64	56	1.3	1.2	1.3	27	32	39
20	1.3	6.4	46	20	76	71	1.3	1.2	1.3	33	35	90
21	1.7	6.1	32	7.6	66	67	1.3	1.2	1.8	35	38	108
22	1.4	6.2	36	11	61	62	1.2	1.1	1.9	35	51	100
23	1.1	5.8	33	30	60	58	1.2	1.1	1.8	28	52	92
24	.88	4.6	40	43	57	55	1.2	1.1	1.7	23	44	89
25	.54	4.0	48	39	55	52	1.2	1.2	1.6	20	40	87
26	.48	3.8	50	20	52	50	1.2	1.1	1.6	18	36	101
27	1.2	3.5	116	33	50	46	1.2	1.2	3.6	16	32	96
28	3.5	3.2	96	20	50	41	1.2	13	2.5	15	27	86
29	2.5	3.2	81	8.3	---	34	1.2	10	2.0	14	26	79
30	2.0	4.2	74	15	---	26	1.4	7.8	1.8	14	26	73
31	12	---	69	19	---	26	---	3.9	---	16	24	---
TOTAL	156.42	366.4	1753.5	1313.9	1350.8	1269.3	239.1	67.8	52.5	722.0	951	1863
MEAN	5.05	12.2	56.6	42.4	48.2	40.9	7.97	2.19	1.75	23.3	30.7	62.1
MAX	20	75	146	70	83	71	28	13	3.6	54	52	108
MIN	.48	2.6	3.5	7.6	3.8	3.6	1.2	1.1	1.3	1.4	16	22
AC-FT	310	727	3480	2610	2680	2520	474	134	104	1430	1890	3700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1998, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1952	6.35	42.3	1960	.006	1957
1953	2.59	13.1	1989	.000	1957
1954	2.89	56.6	1998	.000	1957
1955	3.80	42.4	1998	.000	1957
1956	4.13	48.2	1998	.000	1957
1957	8.04	79.3	1960	.026	1956
1958	5.08	55.8	1959	.000	1956
1959	2.37	27.3	1959	.000	1955
1960	3.61	40.8	1959	.000	1955
1961	6.46	56.7	1959	.023	1956
1962	15.8	97.5	1960	.000	1956
1963	17.1	83.3	1979	.000	1956

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1952 - 1998
ANNUAL TOTAL	3276.02	10105.72	
ANNUAL MEAN	8.98	27.7	6.53
HIGHEST ANNUAL MEAN			35.9
LOWEST ANNUAL MEAN			.15
HIGHEST DAILY MEAN	146 Dec 13	146 Dec 13	396 Mar 17 1960
LOWEST DAILY MEAN	.03 Apr 6	.48 Oct 26	.00 Many Days
ANNUAL SEVEN-DAY MINIMUM	.06 Mar 31	.93 Oct 14	.00 May 15 1953
INSTANTANEOUS PEAK FLOW		177 Dec 13	438 Mar 17 1960
INSTANTANEOUS PEAK STAGE		7.41 Dec 13	9.57 May 18 1979
ANNUAL RUNOFF (AC-FT)	6500	20040	4730
10 PERCENT EXCEEDS	20	66	18
50 PERCENT EXCEEDS	.88	20	1.3
90 PERCENT EXCEEDS	.16	1.2	.20

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS**

02306647 SWEETWATER CREEK NEAR TAMPA, FL

LOCATION.--Lat 28°00'49", long 82°32'43", in SW¹/₄ 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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	293	46	153	40	109	37	5.2	10	1.5	96	22
2	78	205	42	129	82	93	24	3.5	7.0	.87	96	22
3	54	155	41	110	233	86	29	2.6	5.3	.20	52	39
4	43	110	210	102	182	79	36	2.4	4.0	.23	39	65
5	37	74	165	95	141	72	33	2.9	3.7	3.8	37	67
6	31	56	137	93	119	67	28	3.5	3.1	12	53	45
7	27	49	102	111	102	64	22	2.7	2.8	5.8	55	91
8	25	42	81	181	81	59	14	2.0	1.8	25	52	83
9	22	37	72	167	68	106	15	1.7	1.6	16	46	70
10	20	35	92	143	53	83	15	1.4	2.0	94	68	61
11	19	34	303	116	35	69	14	1.2	1.7	84	61	58
12	18	32	446	96	21	57	12	1.4	1.2	55	49	66
13	18	54	803	84	26	46	9.9	1.1	.92	71	41	61
14	16	234	573	80	41	32	6.9	1.2	.66	51	38	56
15	14	161	364	85	39	24	6.2	1.3	.59	77	36	41
16	13	131	256	97	278	32	4.9	1.2	.51	92	45	39
17	12	80	208	81	384	15	3.8	1.3	.47	92	60	40
18	16	59	168	68	272	22	2.9	1.1	.52	51	53	44
19	19	54	151	61	204	256	2.5	.72	.51	40	50	55
20	16	e50	136	53	349	300	2.3	.36	.70	50	65	136
21	15	45	103	32	218	219	1.9	.09	.82	68	78	164
22	14	42	80	33	166	168	1.7	.12	2.4	84	64	142
23	14	41	78	115	149	141	1.6	.09	3.1	54	72	136
24	13	39	82	104	131	125	1.5	.28	3.3	44	56	127
25	16	38	113	86	119	109	1.5	.27	3.5	40	41	130
26	14	36	154	60	108	91	2.4	.47	3.5	52	35	174
27	30	34	664	62	96	76	3.0	.43	5.8	52	31	152
28	39	33	437	57	95	63	2.9	59	6.7	41	27	141
29	29	33	278	33	---	50	3.2	52	3.1	37	27	134
30	23	44	210	35	---	41	4.3	21	2.9	34	25	127
31	157	---	182	37	---	33	---	14	---	31	23	---
TOTAL	978	2330	6777	2759	3832	2787	342.4	186.53	84.20	1359.40	1571	2588
MEAN	31.5	77.7	219	89.0	137	89.9	11.4	6.02	2.81	43.9	50.7	86.3
MAX	157	293	803	181	384	300	37	59	10	94	96	174
MIN	12	32	41	32	21	15	1.5	.09	.47	.20	23	22
CFSM	2.21	5.43	15.3	6.22	9.57	6.29	.80	.42	.20	3.07	3.54	6.03
IN.	2.54	6.06	17.63	7.18	9.97	7.25	.89	.49	.22	3.54	4.09	6.73

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1998, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	21.6	15.8	23.3	16.8	18.8	20.1	11.8	7.55	15.6	29.8	41.1	49.6	
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	3.72	2.50	1.62	1.37	2.81	6.52	8.65	7.44	
(WY)	1992	1997	1992	1997	1994	1994	1989	1995	1998	1993	1993	1990	

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1986 - 1998
ANNUAL TOTAL	15254.11	25594.53	
ANNUAL MEAN	41.8	70.1	22.7
HIGHEST ANNUAL MEAN			70.1
LOWEST ANNUAL MEAN			10.4
HIGHEST DAILY MEAN	803	803	803
LOWEST DAILY MEAN	.40	.09	.09
ANNUAL SEVEN-DAY MINIMUM	.47	.24	.24
INSTANTANEOUS PEAK FLOW		930	930
INSTANTANEOUS PEAK STAGE		13.83	13.83
ANNUAL RUNOFF (CFSM)	2.92	4.90	1.59
ANNUAL RUNOFF (INCHES)	39.68	66.58	21.56
10 PERCENT EXCEEDS	104	159	58
50 PERCENT EXCEEDS	9.1	44	8.0
90 PERCENT EXCEEDS	2.2	1.7	2.0

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS

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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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	e160	7.0	20	7.3	23	7.8	6.5	6.0	4.7	63	10
2	19	e90	5.7	18	59	13	7.4	5.6	5.3	4.2	20	10
3	16	e30	5.3	17	78	11	7.2	5.6	4.7	3.9	13	37
4	14	10	167	16	22	10	7.2	5.5	4.3	3.7	11	29
5	13	9.4	35	16	16	9.8	6.9	7.2	4.1	21	13	23
6	12	8.7	26	13	14	9.0	6.4	5.9	3.9	11	30	14
7	11	9.2	23	10	12	8.7	6.2	5.6	3.8	25	25	31
8	10	7.9	21	49	11	8.9	6.3	5.8	3.7	15	20	27
9	9.3	7.4	21	14	10	32	6.0	5.6	4.7	19	17	14
10	8.5	7.1	32	9.2	9.8	11	5.7	5.8	4.0	93	17	12
11	7.7	6.9	157	7.6	9.6	9.7	5.4	5.5	3.7	18	12	11
12	7.1	6.7	121	6.5	9.1	8.9	5.3	5.5	3.6	12	11	10
13	6.4	36	333	5.8	10	8.8	5.2	5.7	3.5	15	10	10
14	5.9	105	86	5.5	10	8.4	5.1	5.6	3.5	10	9.7	10
15	5.3	16	42	10	19	7.7	5.1	5.5	3.4	43	9.5	9.9
16	e5.0	11	32	12	191	7.5	5.1	5.4	3.3	30	11	9.4
17	e4.8	9.2	29	6.3	117	7.1	5.0	5.3	3.5	14	12	12
18	e7.0	8.1	26	5.5	27	10	5.0	5.3	3.8	10	19	14
19	e10	7.5	24	5.3	31	210	5.0	5.2	3.9	9.5	16	38
20	e9.0	7.1	23	4.9	92	78	5.1	5.2	4.1	20	44	113
21	e8.4	6.6	23	4.7	22	22	5.1	5.2	3.9	30	19	40
22	e8.2	6.4	22	4.5	18	16	5.1	5.1	4.1	20	19	16
23	e8.0	6.1	22	56	21	14	5.3	5.2	4.0	11	16	13
24	e7.5	5.9	19	17	15	12	5.3	5.3	6.1	9.7	12	12
25	e8.8	5.6	40	12	13	11	5.3	5.2	6.2	9.3	11	24
26	e8.1	5.5	41	10	12	10	5.4	5.3	4.1	22	11	51
27	e15	5.3	402	12	13	9.8	5.4	5.6	16	13	11	16
28	e20	5.2	52	9.4	17	9.1	5.4	156	8.7	9.4	12	12
29	e14	5.4	32	8.5	---	8.7	5.4	26	12	8.6	12	9.9
30	e11	10	28	8.0	---	8.2	7.5	9.7	6.6	8.1	10	11
31	e90	---	24	7.8	---	7.9	---	7.7	---	35	10	---
TOTAL	401.0	615.2	1921.0	401.5	885.8	621.2	173.6	349.6	152.5	558.1	526.2	649.2
MEAN	12.9	20.5	62.0	13.0	31.6	20.0	5.79	11.3	5.08	18.0	17.0	21.6
MAX	90	160	402	56	191	210	7.8	156	16	93	63	113
MIN	4.8	5.2	5.3	4.5	7.3	7.1	5.0	5.1	3.3	3.7	9.5	9.4

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1998, BY WATER YEAR (WY)

MEAN	11.1	9.09	11.0	8.79	8.94	10.9	7.00	4.65	13.0	18.9	23.7	23.3
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	4.50	2.93	2.87	2.58	1.51	1.84	.67	5.08	12.2	11.7	8.76
(WY)	1989	1990	1996	1997	1997	1994	1989	1992	1998	1993	1990	1990

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1986 - 1998	
ANNUAL TOTAL	6327.5		7254.9		12.6	
ANNUAL MEAN	17.3		19.9		19.9	
HIGHEST ANNUAL MEAN					7.71	
LOWEST ANNUAL MEAN					1986	
HIGHEST DAILY MEAN	464	Sep 27	402	Dec 27	464	Sep 27 1997
LOWEST DAILY MEAN	1.0	Mar 11	3.3	Jun 16	.10	May 29 1992
ANNUAL SEVEN-DAY MINIMUM	1.2	Mar 7	3.5	Jun 11	.13	May 26 1992
INSTANTANEOUS PEAK FLOW			1070	Dec 27	1210	Sep 26 1997
INSTANTANEOUS PEAK STAGE			12.34	Dec 27	12.60	Sep 26 1997
10 PERCENT EXCEEDS	31		33		26	
50 PERCENT EXCEEDS	5.8		10		5.6	
90 PERCENT EXCEEDS	1.9		5.1		2.1	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS

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, near left bank, 100 ft south 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 mi².

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.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	153	16	163	29	132	64	3.2	1.5	.82	6.9	17
2	59	100	15	150	38	118	58	3.4	1.1	.63	6.8	16
3	47	70	15	138	142	107	54	3.0	.91	.65	6.7	22
4	51	59	89	127	107	99	50	3.5	.99	.93	6.4	33
5	57	52	99	118	90	90	46	4.4	.98	1.0	7.0	28
6	55	46	66	110	77	84	42	5.4	2.1	.40	8.7	26
7	51	43	55	125	68	78	38	6.3	1.7	.72	9.2	43
8	48	38	49	157	61	72	35	6.9	1.2	1.5	24	38
9	43	34	46	161	54	100	32	7.5	.82	1.7	27	42
10	37	32	55	148	44	90	29	4.1	.81	20	41	48
11	31	30	121	138	35	81	24	2.8	1.9	25	34	55
12	26	28	167	129	32	73	21	2.6	2.0	7.2	30	56
13	22	26	234	120	32	67	18	3.5	1.7	10	27	53
14	18	85	226	108	34	62	15	4.1	1.6	5.5	25	50
15	15	78	195	104	36	58	12	4.5	1.5	8.9	26	48
16	14	58	178	102	149	53	11	4.4	1.1	19	26	44
17	12	51	164	90	242	49	9.2	4.1	1.2	24	25	41
18	11	46	152	82	195	41	6.7	4.0	1.3	8.4	23	40
19	12	43	140	77	181	125	5.6	3.8	1.3	5.3	24	40
20	8.6	41	128	71	225	265	4.8	3.7	1.3	7.9	22	74
21	7.7	35	118	54	199	191	4.6	3.4	1.4	28	21	159
22	7.4	29	107	43	185	171	4.1	3.6	.91	22	22	126
23	7.2	28	97	69	175	157	3.8	3.8	.93	16	23	125
24	7.1	26	88	88	158	141	3.5	3.4	.98	15	21	152
25	7.3	24	102	75	143	127	3.2	3.4	.78	13	20	150
26	7.4	20	153	68	131	116	3.0	3.3	.84	12	17	177
27	9.1	15	293	63	121	107	3.0	3.2	.96	10	14	173
28	13	13	246	57	119	98	2.7	6.5	.93	9.7	14	159
29	11	12	207	42	---	89	2.8	5.8	.96	9.0	24	145
30	9.9	15	191	31	---	79	2.8	3.9	.96	8.3	22	134
31	30	---	177	30	---	71	---	2.0	---	7.4	19	---
TOTAL	803.7	1330	3989	3038	3102	3191	608.8	127.5	36.66	299.95	622.7	2314
MEAN	25.9	44.3	129	98.0	111	103	20.3	4.11	1.22	9.68	20.1	77.1
MAX	69	153	293	163	242	265	64	7.5	2.1	28	41	177
MIN	7.1	12	15	30	29	41	2.7	2.0	.78	.40	6.4	16
CFSM	1.46	2.49	7.23	5.51	6.22	5.78	1.14	.23	.07	.54	1.13	4.33
IN.	1.68	2.78	8.34	6.35	6.48	6.67	1.27	.27	.08	.63	1.30	4.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1998, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	14.6	8.66	13.3	11.9	13.7	15.5	7.86	1.44	4.11	10.3	16.8	30.2	
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1986 - 1998
ANNUAL TOTAL	7171.41	19463.31	
ANNUAL MEAN	19.6	53.3	12.3
HIGHEST ANNUAL MEAN			53.3
LOWEST ANNUAL MEAN			2.16
HIGHEST DAILY MEAN	293	293	336
LOWEST DAILY MEAN	.29	.40	.00
ANNUAL SEVEN-DAY MINIMUM	.33	.74	.00
INSTANTANEOUS PEAK FLOW		366	366
INSTANTANEOUS PEAK STAGE		25.52	25.52
INSTANTANEOUS LOW FLOW		.10	.10
ANNUAL RUNOFF (CFSM)	1.10	3.00	.69
ANNUAL RUNOFF (INCHES)	14.99	40.68	9.43
10 PERCENT EXCEEDS	58	149	30
50 PERCENT EXCEEDS	1.9	30	3.1
90 PERCENT EXCEEDS	.44	1.8	.18

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS

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02306904 BRUSHY CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°05'03", long 82°31'29", in NE¹/₄ 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 mi².

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 1998 water year.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.35 ft, Dec. 27; dry many days.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.87	10.94	7.72	9.69	8.06	9.63	8.19	---	---	---	7.26	7.01
2	8.74	9.72	7.51	9.47	8.53	9.42	8.04	---	---	---	7.46	7.01
3	8.45	9.14	7.37	9.29	10.32	9.31	8.01	---	---	---	7.24	7.59
4	8.20	8.79	9.61	9.12	9.50	9.11	7.97	---	---	---	7.10	7.79
5	8.01	8.38	9.46	8.97	9.12	8.93	7.91	---	---	---	7.46	8.06
6	7.86	8.18	8.63	8.86	8.93	8.80	7.80	---	---	---	7.97	8.17
7	7.73	8.04	8.24	10.03	8.82	8.69	7.70	---	---	7.41	8.15	9.40
8	7.64	7.93	8.01	10.37	8.69	8.60	7.60	---	---	7.76	8.87	8.76
9	7.63	7.83	7.96	10.23	8.58	9.74	7.52	---	---	7.05	8.45	8.65
10	7.59	7.72	8.81	9.72	8.50	9.09	7.38	---	---	8.59	8.64	8.36
11	7.53	7.66	10.27	9.39	8.42	8.88	7.25	---	---	8.47	8.15	8.18
12	7.50	7.63	10.72	9.14	8.32	8.72	7.17	---	---	7.95	7.85	8.06
13	7.45	7.79	11.51	8.96	8.22	8.61	7.10	---	---	8.55	7.60	7.96
14	7.40	10.09	11.14	8.81	---	8.52	7.03	---	---	7.74	7.46	7.92
15	7.35	9.45	10.44	8.81	---	8.41	6.99	---	---	8.72	7.72	7.87
16	7.73	8.85	9.96	9.05	---	8.34	6.96	---	---	8.99	7.71	7.78
17	8.04	8.51	9.65	8.79	---	8.24	6.93	---	---	8.46	8.00	7.79
18	8.08	8.27	9.46	8.62	10.51	8.25	6.91	---	---	7.90	8.00	7.88
19	8.45	8.12	9.22	8.51	10.22	10.44	6.90	---	---	7.62	7.83	8.02
20	8.04	8.01	9.01	8.42	11.10	11.45	6.85	---	---	7.82	7.70	9.81
21	7.81	7.91	8.82	8.34	10.32	10.48	6.82	---	---	8.14	7.60	10.32
22	7.63	7.83	8.56	8.28	9.94	10.13	6.76	---	---	8.01	7.65	9.55
23	7.51	7.75	8.40	8.87	9.82	9.87	6.72	---	---	7.66	7.80	9.55
24	7.41	7.69	8.29	9.12	9.63	9.56	---	---	---	7.43	7.60	9.98
25	7.43	7.57	8.71	8.78	9.40	9.28	---	---	---	7.28	7.48	9.79
26	7.36	7.51	10.09	8.58	9.20	9.06	---	---	---	7.15	7.36	10.32
27	7.58	7.47	11.66	8.53	9.02	8.88	---	---	---	7.09	7.26	9.71
28	8.15	7.41	11.31	8.44	8.93	8.74	---	---	---	7.00	7.25	9.37
29	7.80	7.42	10.60	8.34	---	8.60	---	---	---	6.93	7.24	9.06
30	7.61	7.66	10.30	8.24	---	8.45	---	---	---	6.85	7.12	8.94
31	8.00	---	10.00	8.15	---	8.32	---	---	---	6.82	7.05	---
MEAN	7.83	8.24	9.40	8.97	---	9.11	---	---	---	---	7.68	8.62
MAX	8.87	10.94	11.66	10.37	---	11.45	---	---	---	---	8.87	10.32
MIN	7.35	7.41	7.37	8.15	---	8.24	---	---	---	---	7.05	7.01

CAL YR 1997 MEAN 7.58 MAX 11.66 MIN 6.67

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02306950 BRUSHY CREEK NEAR CITRUS PARK, FL

LOCATION.--Lat 28°03'53", long 82°33'20", in SW¹/₄ 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	334	29	125	38	133	32	3.4	7.6	.85	8.4	10
2	47	169	23	108	53	104	28	2.8	4.6	.50	20	11
3	39	91	17	95	233	86	28	2.7	3.2	.29	18	22
4	29	65	205	85	148	77	29	2.5	2.4	.23	17	40
5	21	48	179	76	100	67	27	6.0	1.9	.12	17	e38
6	18	38	83	74	77	59	22	7.7	1.4	.79	39	37
7	18	34	56	137	68	54	23	7.2	.95	8.6	36	95
8	18	28	43	192	61	48	20	2.9	.68	65	79	68
9	14	25	39	185	54	e115	17	2.5	.42	25	58	61
10	14	26	73	136	52	e73	15	2.2	.28	89	79	51
11	11	25	251	108	49	e56	14	1.9	.21	108	53	44
12	13	22	316	91	46	e46	13	1.7	.19	44	43	38
13	14	25	513	80	44	e40	13	1.3	.38	69	30	32
14	9.1	175	352	70	44	e36	12	.98	.02	40	22	.31
15	8.1	135	204	69	43	e34	11	.87	.13	60	36	30
16	8.9	79	143	85	242	e31	10	.75	.09	95	40	28
17	13	54	112	65	409	e27	9.3	.70	.07	88	43	27
18	16	42	96	54	235	e22	7.8	.59	.08	45	44	31
19	32	38	80	54	185	e65	7.5	.49	.12	31	37	43
20	22	34	70	51	291	235	7.1	.70	.16	42	33	106
21	21	29	62	46	205	214	6.5	.86	.19	64	31	244
22	17	24	46	43	168	160	6.2	2.2	1.0	56	28	137
23	13	26	36	80	152	136	5.8	1.7	2.3	40	35	104
24	15	26	33	99	131	111	5.5	1.4	1.5	31	29	155
25	14	19	64	67	111	90	5.1	1.3	.99	25	23	142
26	10	17	163	56	96	75	4.7	1.3	.70	20	22	183
27	16	16	542	53	85	65	4.3	1.5	.66	22	16	185
28	33	15	350	49	91	56	3.7	9.9	2.0	17	14	115
29	25	15	212	44	---	49	3.9	17	1.6	11	18	99
30	21	26	175	41	---	42	3.8	7.6	1.5	9.8	16	86
31	74	---	150	39	---	36	---	10	---	8.4	13	---
TOTAL	676.1	1700	4717	2557	3511	2442	395.2	104.64	37.32	1116.58	997.4	2293
MEAN	21.8	56.7	152	82.5	125	78.8	13.2	3.38	1.24	36.0	32.2	76.4
MAX	74	334	542	192	409	235	32	17	7.6	108	79	244
MIN	8.1	15	17	39	38	22	3.7	.49	.02	.12	8.4	10

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1998, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	19.1	14.7	34.6	24.2	31.5	20.2	8.39	3.82	12.6	23.7	29.0	35.9
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	2.96	1.13	2.29	.77	1.24	8.29	13.8	14.7
(WY)	1994	1997	1994	1997	1997	1997	1994	1995	1998	1996	1996	1996

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1994 - 1998
ANNUAL TOTAL	11188.76	20547.24	
ANNUAL MEAN	30.7	56.3	21.4
HIGHEST ANNUAL MEAN			56.3
LOWEST ANNUAL MEAN			10.7
HIGHEST DAILY MEAN	542	542	542
LOWEST DAILY MEAN	.24	.02	.01
ANNUAL SEVEN-DAY MINIMUM	.38	.10	.08
INSTANTANEOUS PEAK FLOW		775	775
INSTANTANEOUS PEAK STAGE		12.92	12.92
10 PERCENT EXCEEDS	65	142	51
50 PERCENT EXCEEDS	9.6	33	7.7
90 PERCENT EXCEEDS	1.1	1.4	1.3

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS

02306950 BRUSHY CREEK NEAR CITRUS PARK, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.21	7.83	3.51	5.49	3.64	5.62	3.46	2.56	2.98	2.51	2.81	2.86
2	4.05	5.89	3.35	5.18	3.92	5.11	3.35	2.53	2.81	2.46	3.15	2.87
3	3.86	4.72	3.16	4.94	7.15	4.76	3.35	2.53	2.72	2.43	3.10	3.15
4	3.58	4.27	6.21	4.75	5.88	4.58	3.37	2.52	2.65	2.41	3.07	3.55
5	3.32	3.93	6.01	4.56	5.02	4.37	3.32	2.64	2.61	2.39	3.07	---
6	3.22	3.71	4.60	4.51	4.58	4.15	3.19	2.79	2.56	2.48	3.55	3.48
7	3.21	3.62	4.09	5.69	4.39	4.04	3.23	2.77	2.51	2.83	3.47	4.76
8	3.23	3.46	3.83	6.54	4.24	3.93	3.11	2.55	2.48	4.45	4.43	4.19
9	3.10	3.40	3.74	6.47	4.08	---	3.03	2.52	2.45	3.47	3.95	4.02
10	3.08	3.42	4.41	5.69	4.03	---	2.98	2.51	2.43	4.66	4.43	3.77
11	2.96	3.39	6.75	5.19	3.96	---	2.93	2.48	2.40	5.21	3.82	3.63
12	3.05	3.33	7.66	4.86	3.87	---	2.91	2.47	2.41	3.92	3.60	3.50
13	3.07	3.37	9.60	4.64	3.82	---	2.89	2.44	2.43	4.48	3.34	3.40
14	2.90	5.96	8.32	4.44	3.84	---	2.88	2.42	2.37	3.79	3.18	3.36
15	2.85	5.40	6.82	4.42	3.80	---	2.88	2.41	2.39	4.21	3.47	3.35
16	2.89	4.53	6.03	4.74	7.05	---	2.87	2.39	2.38	4.95	3.55	3.30
17	3.05	4.06	5.53	4.32	9.32	---	2.82	2.39	2.38	4.80	3.60	3.29
18	3.15	3.81	5.24	4.08	7.19	---	2.76	2.38	2.38	3.88	3.62	3.37
19	3.56	3.72	4.94	4.07	6.47	---	2.75	2.38	2.39	3.51	3.49	3.61
20	3.32	3.62	4.74	3.99	7.92	6.02	2.73	2.40	2.40	3.77	3.41	4.87
21	3.28	3.49	4.56	3.88	6.76	6.89	2.71	2.42	2.40	4.29	3.37	7.29
22	3.16	3.36	4.21	3.78	6.21	6.08	2.70	2.56	2.50	4.10	3.30	5.58
23	3.06	3.43	3.96	4.59	5.95	5.67	2.68	2.52	2.65	3.70	3.46	4.97
24	3.10	3.41	3.87	5.01	5.59	5.23	2.66	2.51	2.57	3.48	3.34	5.91
25	3.07	3.22	4.55	4.37	5.23	4.84	2.65	2.50	2.52	3.31	3.19	5.68
26	2.93	3.19	6.31	4.13	4.96	4.55	2.63	2.51	2.49	3.19	3.16	6.38
27	3.12	3.14	10.59	4.05	4.75	4.32	2.61	2.54	2.49	3.23	3.02	6.42
28	3.59	3.12	8.62	3.95	4.86	4.11	2.58	2.91	2.62	3.08	2.98	5.18
29	3.39	3.11	6.87	3.83	---	3.94	2.59	3.31	2.58	2.91	3.06	4.87
30	3.28	3.42	6.32	3.73	---	3.76	2.59	2.97	2.57	2.87	3.03	4.59
31	4.10	---	5.91	3.68	---	3.58	---	3.07	---	2.82	2.95	---
MEAN	3.28	3.94	5.62	4.63	5.30	---	2.91	2.58	2.52	3.54	3.39	---
MAX	4.21	7.83	10.59	6.54	9.32	---	3.46	3.31	2.98	5.21	4.43	---
MIN	2.85	3.11	3.16	3.68	3.64	---	2.58	2.38	2.37	2.39	2.81	---

LOCATION.--Lat 28°02'12", long 82°34'34", in NW¹/₄ 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.

PERIOD OF RECORD.--January 1953 to current year.

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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	453	65	306	77	260	100	e11	e3.9	5.0	e11	36
2	162	380	58	270	97	230	89	e11	e3.5	4.7	e9.9	34
3	134	230	47	240	401	196	84	e11	e3.2	4.3	e9.0	48
4	115	172	180	219	319	180	82	e10	e3.0	3.4	e8.0	87
5	111	140	367	201	223	163	76	e9.8	e2.7	3.5	e7.5	73
6	100	118	223	190	182	151	63	e9.3	e2.3	3.5	e7.1	76
7	92	106	163	244	159	143	61	e9.2	e2.0	5.4	e7.0	127
8	89	93	135	328	140	129	57	e8.4	e2.0	65	e9.2	132
9	77	79	117	386	124	182	50	e8.4	e2.0	39	e12	118
10	69	75	150	310	109	183	46	e8.0	e2.0	e31	e18	113
11	59	71	266	263	94	155	39	e7.5	e2.1	e26	e23	112
12	52	66	561	233	84	138	34	e7.5	2.3	e21	e35	105
13	51	59	693	213	80	125	30	e7.4	2.6	e24	e49	97
14	40	220	822	194	83	116	26	e6.6	2.9	e29	e42	91
15	32	289	510	185	83	110	23	e6.6	3.0	e36	e38	87
16	29	195	398	200	332	103	e21	e6.6	3.1	e27	e37	82
17	31	154	328	175	796	91	e20	e6.6	3.0	e23	e48	77
18	35	127	281	155	523	77	e19	e6.3	3.1	e19	e55	79
19	48	114	248	146	398	246	e18	e5.8	3.2	e29	e44	91
20	44	104	224	138	579	890	e18	e5.7	3.5	e34	e36	135
21	35	92	205	118	468	483	e16	e5.0	3.1	e28	e47	369
22	31	75	184	100	378	355	e16	e5.0	3.3	e22	e60	291
23	25	72	163	156	339	300	e16	e4.7	5.4	e18	e62	231
24	26	71	150	224	293	256	e15	e4.3	5.3	e38	e58	268
25	25	61	180	176	253	221	e14	e4.0	5.0	e29	50	271
26	23	54	339	154	224	192	e13	e4.0	5.0	e24	47	333
27	23	43	978	142	203	171	e13	e3.5	5.5	e21	38	359
28	55	37	834	129	201	154	e12	e16	4.9	e18	35	285
29	51	35	499	110	---	139	e12	25	5.1	e16	50	241
30	43	48	407	88	---	128	e12	e9.7	5.5	e14	48	209
31	53	---	358	81	---	113	---	e4.0	---	e12	41	---
TOTAL	1945	3833	10133	6074	7242	6380	1095	247.9	103.5	672.8	1041.7	4657
MEAN	62.7	128	327	196	259	206	36.5	8.00	3.45	21.7	33.6	155
MAX	185	453	978	386	796	890	100	25	5.5	65	62	369
MIN	23	35	47	81	77	77	12	3.5	2.0	3.4	7.0	34
CFSM	1.79	3.65	9.34	5.60	7.39	5.88	1.04	.23	.10	.62	.96	4.44
IN.	2.07	4.07	10.77	6.46	7.70	6.78	1.16	.26	.11	.72	1.11	4.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1998, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN RAIN FOR WATERS YEARS 1954 - 1960, BY WATERS YEAR (%)												
MEAN	36.8	17.2	22.5	24.6	30.1	44.1	22.7	14.6	23.6	44.8	88.2	95.9
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	2.59	.27	.63	.58	1.86	4.33	8.31
(WY)	1971	1979	1971	1957	1957	1968	1967	1955	1955	1955	1993	1972

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1954 - 1998	
ANNUAL TOTAL	23533.3		43424.9			
ANNUAL MEAN	64.5		119		38.8	
HIGHEST ANNUAL MEAN					119	1998
LOWEST ANNUAL MEAN					4.73	1956
HIGHEST DAILY MEAN	978	Dec 27	978	Dec 27	2290	Mar 17 1960
LOWEST DAILY MEAN	1.5	Mar 11	e2.0	Jun 7	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	2.1	Mar 7	2.1	Jun 6	.00	Apr 7 1967
INSTANTANEOUS PEAK FLOW			1400	Dec 27	2840	Jul 29 1960
INSTANTANEOUS PEAK STAGE			9.08	Dec 27	17.18	Jul 29 1960
ANNUAL RUNOFF (CFSM)	1.84		3.40		1.11	
ANNUAL RUNOFF (INCHES)	25.01		46.15		15.07	
10 PERCENT EXCEEDS	162		296		95	
50 PERCENT EXCEEDS	18		66		13	
90 PERCENT EXCEEDS	3.4		5.0		2.7	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS

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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 mi².

PERIOD OF RECORD.--April 1981 to current year. Prior to October 1984, mean daily discharges published in U. S. Geological Survey Open-File Report 86-55.

GAGE.--Water-stage recorder. Datum of gage is 30.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e15	19	6.7	30	6.3	18	11	.08	.00	.00	3.8	5.8
2	e12	20	6.2	26	6.8	16	9.9	.05	.00	.00	3.5	5.3
3	e10	19	5.8	22	13	15	8.7	.01	.00	.00	3.0	8.3
4	e8.4	19	12	20	14	13	7.7	.00	.00	.00	2.7	12
5	e6.8	18	15	17	13	12	6.9	.00	.00	.00	2.9	12
6	e5.5	17	14	16	12	11	6.1	.00	.00	.00	8.3	12
7	e4.5	16	13	21	11	9.8	5.4	.00	.00	.00	9.3	19
8	e3.8	15	12	30	10	9.1	4.9	.00	.00	.00	18	21
9	7.7	13	12	33	9.6	16	4.2	.00	.00	.00	16	26
10	8.2	12	14	30	8.8	16	3.8	.00	.00	.16	15	23
11	6.8	11	26	27	8.2	14	3.4	.00	.00	.81	13	20
12	5.4	9.8	45	24	7.6	14	3.0	.00	.00	.66	11	16
13	4.3	10	78	21	7.1	13	2.7	.00	.00	.77	9.6	13
14	3.6	21	94	18	7.0	12	2.4	.00	.00	.65	8.6	11
15	3.1	22	81	18	6.8	11	2.0	.00	.00	2.1	7.6	10
16	2.8	21	65	19	28	10	1.7	.00	.00	5.3	7.0	8.7
17	2.5	19	53	17	46	9.5	1.5	.00	.00	6.9	7.4	7.6
18	2.6	17	43	15	41	8.9	1.3	.00	.00	4.9	7.1	7.5
19	3.1	16	36	14	38	24	1.1	.00	.00	4.1	7.0	8.5
20	2.8	15	30	13	52	50	.91	.00	.00	6.2	6.7	16
21	2.4	13	26	11	45	43	.76	.00	.00	13	6.4	25
22	2.2	12	22	11	38	37	.64	.00	.00	15	6.4	21
23	2.1	11	20	13	34	32	.52	.00	.00	14	7.1	18
24	1.9	10	18	14	29	27	.42	.00	.00	13	6.8	21
25	1.7	8.9	25	13	25	23	.33	.00	.00	11	6.3	20
26	1.6	7.9	40	12	21	20	.26	.00	.00	10	5.9	24
27	3.4	7.1	61	11	19	18	.20	.00	.00	8.9	5.2	23
28	6.8	6.3	60	9.5	18	17	.15	.00	.00	7.7	5.1	20
29	6.4	5.6	50	8.3	---	15	.11	.00	.00	6.5	8.0	17
30	6.1	6.3	43	7.3	---	13	.09	.00	.00	5.6	7.4	13
31	8.9	---	36	6.7	---	12	---	.00	---	4.6	6.7	---
TOTAL	162.4	417.9	1062.7	547.8	575.2	559.3	92.09	0.14	0.00	141.85	238.8	464.7
MEAN	5.24	13.9	34.3	17.7	20.5	18.0	3.07	.005	.000	4.58	7.70	15.5
MAX	15	22	94	33	52	50	11	.08	.00	15	18	26
MIN	1.6	5.6	5.8	6.7	6.3	8.9	.09	.00	.00	.00	2.7	5.3
AC-FT	322	829	2110	1090	1140	1110	183	.3	.00	281	474	922

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1998, BY WATER YEAR (WY)

	MEAN	3.95	1.95	3.40	3.59	3.92	5.12	2.80	.29	1.38	3.08	5.75	9.88
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1982 - 1998
ANNUAL TOTAL	1841.90	4262.88	
ANNUAL MEAN	5.05	11.7	3.76
HIGHEST ANNUAL MEAN			11.7
LOWEST ANNUAL MEAN			.30
HIGHEST DAILY MEAN	94	Dec 14	200
LOWEST DAILY MEAN	.00	Many Days	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 3	.00
INSTANTANEOUS PEAK FLOW		95	Dec 14
INSTANTANEOUS PEAK STAGE		20.42	Dec 14
ANNUAL RUNOFF (AC-FT)	3650	8460	2720
10 PERCENT EXCEEDS	15	26	11
50 PERCENT EXCEEDS	.55	8.3	.69
90 PERCENT EXCEEDS	.00	.00	.00

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS

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 mi², 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	87	20	132	40	109	65	1.4	.27	.00	1.6	13
2	24	104	22	118	48	106	59	1.1	.25	.00	1.2	14
3	20	81	22	108	117	98	54	.82	.02	.00	.92	27
4	19	54	37	101	128	90	50	.64	.12	.00	.77	59
5	17	37	57	95	111	83	45	.63	.08	.00	.90	72
6	14	28	58	90	95	77	38	.51	.06	.00	1.7	73
7	11	21	49	90	81	72	33	.42	.03	.00	1.8	79
8	8.6	17	42	106	70	67	29	.35	.00	.00	4.1	79
9	6.5	14	40	120	60	122	27	.35	.00	.00	6.1	73
10	4.6	11	45	119	52	138	26	.28	.00	.93	6.8	66
11	3.4	9.7	100	113	47	129	24	.22	.00	4.3	6.8	56
12	2.6	8.6	267	105	43	116	23	.16	.00	3.1	6.1	51
13	2.1	8.7	462	95	40	100	21	.14	.00	7.9	5.1	50
14	1.6	29	539	85	37	82	19	.11	.00	3.3	5.2	51
15	1.3	44	410	84	35	67	17	.10	.00	8.1	8.2	55
16	.94	48	298	92	149	56	15	.09	.00	36	13	55
17	.80	45	214	93	389	49	14	.08	.00	70	28	55
18	1.2	41	158	89	342	46	12	.07	.00	64	36	60
19	2.0	38	137	84	281	95	11	.06	.00	44	39	72
20	1.6	36	124	78	364	252	10	.05	.00	33	43	82
21	1.4	34	116	71	319	249	9.8	.03	.00	32	39	110
22	1.1	32	109	64	247	200	9.3	.02	.00	31	37	105
23	.96	31	103	70	194	156	8.6	.01	.00	28	46	87
24	.83	29	96	77	153	134	7.6	.00	.00	23	45	82
25	1.1	26	112	75	134	118	6.2	.00	.00	17	38	85
26	1.3	23	166	68	121	105	4.9	.00	.00	12	30	97
27	4.6	19	263	60	112	97	3.7	.00	.00	9.1	23	108
28	14	16	294	52	108	90	2.8	.21	.00	6.8	18	110
29	27	14	238	46	---	84	2.1	.57	.00	5.2	15	110
30	27	15	188	42	---	78	1.7	.42	.00	3.6	14	102
31	32	---	150	41	---	71	---	.33	---	2.4	13	---
TOTAL	283.53	1001.0	4936	2663	3917	3336	648.7	9.17	0.83	444.73	534.29	2138
MEAN	9.15	33.4	159	85.9	140	108	21.6	.30	.028	14.3	17.2	71.3
MAX	32	104	539	132	389	252	65	1.4	.27	70	46	110
MIN	.80	8.6	20	41	35	46	1.7	.00	.00	.00	.77	13
CFSM	.30	1.11	5.31	2.86	4.66	3.59	.72	.01	.00	.48	.57	2.38
IN.	.35	1.24	6.12	3.30	4.86	4.14	.80	.01	.00	.55	.66	2.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1998, BY WATER YEAR (WY)

	MEAN	20.6	7.18	9.96	11.8	16.1	25.7	12.0	3.04	5.87	19.1	44.2	51.4
	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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1951 - 1998
ANNUAL TOTAL	6989.14	19912.25	
ANNUAL MEAN	19.1	54.6	18.9
HIGHEST ANNUAL MEAN			86.8
LOWEST ANNUAL MEAN			1.97
HIGHEST DAILY MEAN	539	Dec 14	1540
LOWEST DAILY MEAN	.00	Many Days	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 4	.00
INSTANTANEOUS PEAK FLOW			575
INSTANTANEOUS PEAK STAGE			12.38
ANNUAL RUNOFF (CFSM)	.64		1.82
ANNUAL RUNOFF (INCHES)	8.67		24.69
10 PERCENT EXCEEDS	41		120
50 PERCENT EXCEEDS	.57		30
90 PERCENT EXCEEDS	.00		.01

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
TAMPA BAY AND COASTAL AREAS
02307359 BROOKER CREEK NEAR TARPON SPRINGS, FL--Continued

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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...	0955	10.34	45	149	5.50	14.0	400	5.5	14	2.3	13	2.0
APR 14...	1030	9.45	19	91	4.20	16.5	320	3.4	7.6	1.5	7.7	1.4
AUG 03...	0914	7.84	.90	182	6.00	24.5	800	2.0	20	2.8	13	2.4
SEP 14...	0835	10.38	50	98	5.10	22.0	320	2.6	9.5	1.5	7.2	1.7

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)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV 17...	10	22	.17	7.7	178	<.01	<.02	.02	1.2	<.02	.02	47
APR 14...	3.7	14	.10	1.5	380	<.01	.02	.04	.83	.02	.03	26
AUG 03...	9.1	27	.11	9.7	240	.02	.05	.27	2.7	.10	.09	62
SEP 14...	3.9	15	.13	4.5	128	.01	<.02	.04	.97	<.02	.04	32

WATER RESOURCES DATA FOR FLORIDA, 1998
Volume 3A: Southwest Florida Surface Water

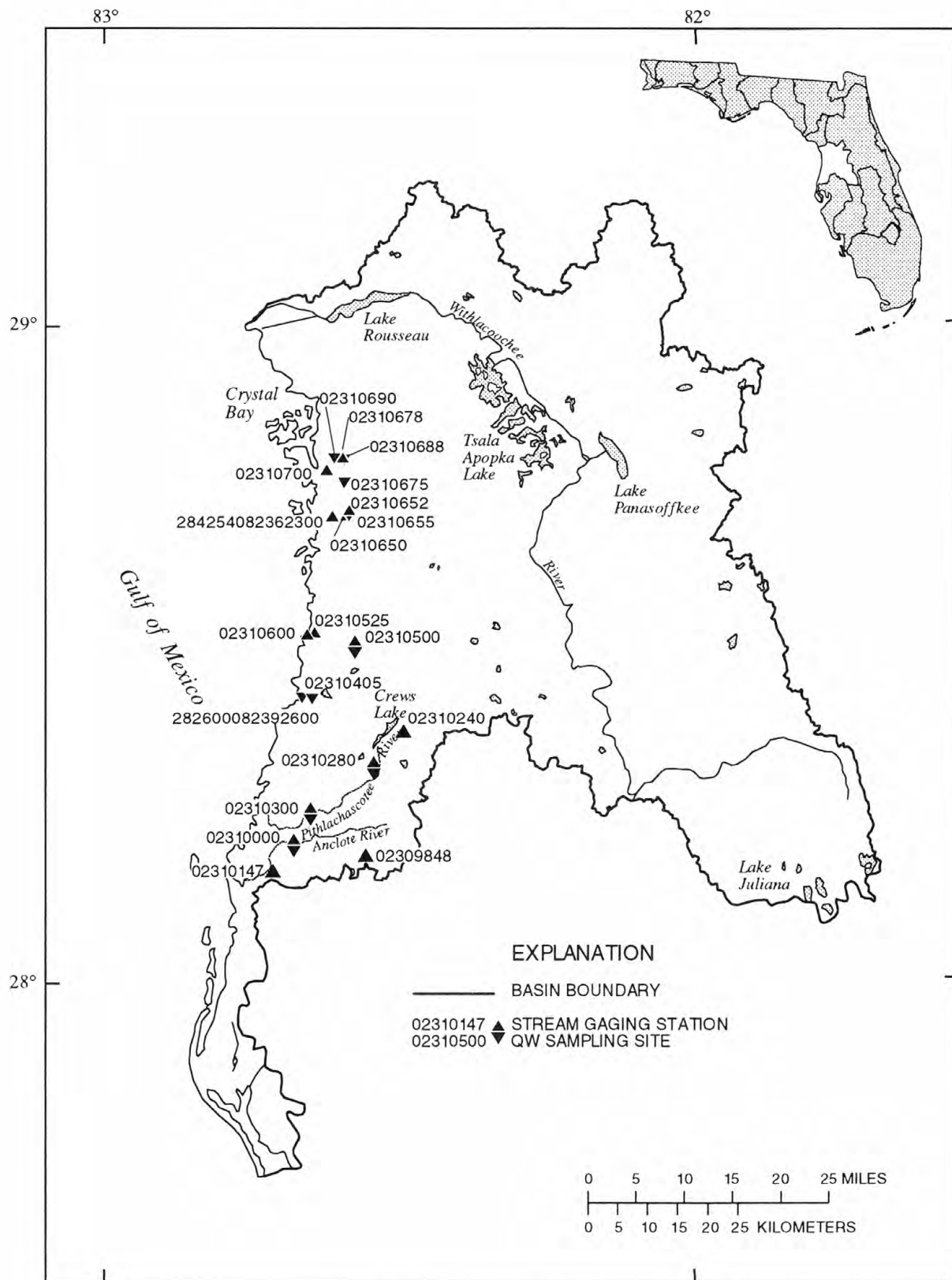


Figure 16.--Location of stream gaging stations in the Coastal area from Tampa Bay to Withlacoochee River.

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

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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 mi².

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e90	e60	e9.0	34	e14	e29	8.2	.00	.00	.00	1.8	4.3
2	e45	e80	e9.8	27	e27	e26	6.4	.00	.00	.00	2.6	4.2
3	e22	e65	e11	23	e30	e18	5.1	.00	.00	.00	5.7	20
4	e12	e60	19	20	e41	16	4.5	.00	.00	.00	11	35
5	e5.7	e52	19	18	e40	14	3.9	.00	.00	.00	16	34
6	e2.0	e43	9.5	20	21	12	3.3	.00	.00	.00	27	36
7	1.1	e36	6.4	57	e19	11	2.8	.00	.00	.00	22	48
8	.93	e28	5.0	84	e18	10	2.5	.00	.00	.00	27	84
9	.78	e23	4.7	83	e17	41	2.2	.00	.00	.00	25	83
10	.67	e18	8.1	61	e16	37	2.0	.00	.00	.00	38	64
11	.58	e17	38	51	e15	34	1.6	.00	.00	.00	31	56
12	.52	e18	60	41	e15	28	1.3	.00	.00	.00	22	39
13	.46	e19	130	31	e14	22	1.0	.00	.00	.00	14	29
14	.32	e28	e90	24	e13	19	.74	.00	.00	.00	8.3	22
15	.21	e30	68	e22	e38	15	.51	.00	.00	6.5	6.2	26
16	.14	e38	63	e30	e95	13	.31	.00	.00	10	5.4	22
17	.10	e36	50	e28	e200	12	.17	.00	.00	12	7.6	19
18	.13	e33	39	e26	e160	11	.07	.00	.00	15	7.5	19
19	.21	e29	30	e25	e110	46	.00	.00	.00	8.3	9.7	25
20	.14	e22	25	e23	e82	128	.00	.00	.00	25	7.1	57
21	.10	e19	21	e21	e70	84	.00	.00	.00	92	6.3	164
22	.07	e17	19	e30	e60	66	.00	.00	.00	55	16	187
23	.04	e14	17	e22	e50	54	.00	.00	.00	27	28	183
24	.01	e10	15	e24	e40	46	.00	.00	.00	15	14	287
25	.07	e9.0	29	e25	e35	39	.00	.00	.00	7.5	7.3	230
26	.08	e8.0	60	e22	e29	31	.00	.00	.00	5.1	5.3	258
27	6.2	e7.5	88	e20	e26	23	.00	.00	.00	3.9	4.3	162
28	e24	e7.3	82	e18	e27	19	.00	.00	.00	3.2	4.5	85
29	e31	e7.0	63	e17	---	15	.00	.00	.00	2.5	9.9	63
30	e30	e8.0	54	e16	---	12	.00	.00	.00	2.2	5.9	49
31	e35	---	44	e15	---	10	---	.00	---	1.9	4.6	---
TOTAL	309.56	841.8	1186.5	958	1322	941	46.60	0.00	0.00	292.10	401.0	2394.5
MEAN	9.99	28.1	38.3	30.9	47.2	30.4	1.55	.000	.000	9.42	12.9	79.8
MAX	90	80	130	84	200	128	8.2	.00	.00	92	38	287
MIN	.01	7.0	4.7	15	13	10	.00	.00	.00	.00	1.8	4.2

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1998, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	2.35	1.32	1.94	2.01	3.44	3.46	1.64	.92	1.85	3.10	7.30	13.3																
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1971 - 1998
ANNUAL TOTAL	2606.40	8693.06	
ANNUAL MEAN	7.14	23.8	3.54
HIGHEST ANNUAL MEAN			23.8
LOWEST ANNUAL MEAN			.59
HIGHEST DAILY MEAN	140 Sep 29	287 Sep 24	287 Sep 24 1998
LOWEST DAILY MEAN	.00 Many Days	.00 Many Days	.00 Many Days
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Apr 19	.00 Oct 1 1970
INSTANTANEOUS PEAK FLOW		330 Sep 23	330 Sep 23 1998
INSTANTANEOUS PEAK STAGE		5.26 Sep 23	5.26 Sep 23 1998
10 PERCENT EXCEEDS	28	60	7.2
50 PERCENT EXCEEDS	.00	12	.02
90 PERCENT EXCEEDS	.00	.00	.00

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER**

02310000 ANCLOTE RIVER NEAR ELFERS, FL

LOCATION.--Lat 28°12'50", long 82°40'00", in NE¹/₄ 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 mi².

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 ft³/s, from rating curve extended above 3,700 ft³/s.

**DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	276	45	452	109	331	118	8.8	4.7	2.5	6.0	e18
2	213	394	49	361	127	372	104	9.8	4.3	2.4	11	e17
3	130	359	50	303	378	325	93	8.8	4.0	2.2	16	e16
4	90	271	109	262	464	268	83	7.1	3.8	2.4	16	e15
5	66	197	172	233	402	227	74	6.4	3.7	2.6	27	e38
6	51	145	193	212	313	194	65	6.1	3.8	3.0	36	e74
7	40	110	168	345	252	169	56	5.8	3.6	3.4	52	e165
8	33	88	138	717	210	153	50	5.7	2.8	3.3	96	e320
9	28	75	114	962	174	517	45	5.6	2.9	3.4	68	e690
10	24	63	112	957	149	824	42	5.4	2.5	3.7	74	e705
11	20	54	e321	734	129	764	37	5.1	2.4	4.0	90	685
12	18	47	e990	520	113	528	33	4.9	2.7	4.2	82	536
13	15	47	1660	391	101	373	30	4.7	2.8	4.9	61	350
14	14	93	1870	321	94	294	26	4.5	2.7	4.1	45	239
15	12	157	1640	319	90	243	24	4.4	2.5	22	34	167
16	10	190	1270	377	408	204	22	4.3	2.5	12	29	134
17	9.5	164	911	403	1070	175	21	4.0	2.4	8.4	35	112
18	9.7	131	628	363	1400	157	19	4.0	2.4	6.1	28	107
19	11	106	463	314	1180	364	17	4.0	2.3	5.9	33	121
20	9.6	88	369	270	1090	996	16	4.0	2.3	5.8	33	166
21	9.1	74	312	236	1140	1420	16	4.1	2.2	7.0	30	512
22	7.6	64	270	207	986	1170	14	4.4	2.2	29	28	1100
23	6.9	57	237	217	726	790	12	4.2	2.1	57	40	1080
24	6.4	51	213	245	543	538	11	3.8	2.0	53	59	845
25	7.4	45	229	245	409	388	9.9	3.9	2.1	41	60	847
26	8.3	40	388	219	322	308	9.2	4.1	2.2	30	47	893
27	66	35	816	201	277	256	8.4	4.2	2.2	21	35	839
28	94	31	1150	178	267	216	7.9	4.3	2.3	16	28	691
29	141	29	1110	156	---	183	7.7	5.1	2.5	11	25	529
30	132	39	839	140	---	156	7.4	4.9	2.6	8.9	26	394
31	171	---	595	124	---	136	---	4.9	---	7.1	e23	---
TOTAL	1789.5	3520	17431	10984	12923	13039	1078.5	161.3	83.5	387.3	1273.0	12405
MEAN	57.7	117	562	354	462	421	36.0	5.20	2.78	12.5	41.1	414
MAX	336	394	1870	962	1400	1420	118	9.8	4.7	57	96	1100
MIN	6.4	29	45	124	90	136	7.4	3.8	2.0	2.2	6.0	15
CFSM	.80	1.62	7.76	4.89	6.37	5.80	.50	.07	.04	.17	.57	5.70
IN.	.92	1.81	8.94	5.64	6.63	6.69	.55	.08	.04	.20	.65	6.37

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1998, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1947	66.9	252	1948	3.18	1973
1948	23.6	150	1949	2.19	1982
1949	33.9	562	1950	2.48	1991
1950	46.5	354	1951	2.36	1991
1951	53.2	462	1952	2.58	1985
1952	81.3	612	1953	2.42	1985
1953	38.8	335	1954	2.17	1990
1954	15.9	245	1955	1.43	1981
1955	25.9	245	1956	1.74	1963
1956	69.9	424	1957	2.34	1992
1957	157	557	1958	2.67	1989
1958	177	634	1959	7.68	1980

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1947 - 1998
ANNUAL TOTAL	26428.2	75075.1	
ANNUAL MEAN	72.4	206	65.9
HIGHEST ANNUAL MEAN			228
LOWEST ANNUAL MEAN			8.86
HIGHEST DAILY MEAN	1870	1870	3710
LOWEST DAILY MEAN	1.4	2.0	.80
ANNUAL SEVEN-DAY MINIMUM	1.5	2.1	.91
INSTANTANEOUS PEAK FLOW		1910	3890
INSTANTANEOUS PEAK STAGE		24.03	26.09
ANNUAL RUNOFF (CFSM)	1.00	2.84	.91
ANNUAL RUNOFF (INCHES)	13.56	38.52	12.36
10 PERCENT EXCEEDS	166	687	179
50 PERCENT EXCEEDS	3.1	63	11
90 PERCENT EXCEEDS	2.1	3.8	2.8

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIEE RIVER

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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 1997 TO SEPTEMBER 1998

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...	1045	12.00	166	93	8.30	13.5	--	8.8	--	--	--	--
DEC 15...	0920	23.30	1690	46	5.50	15.0	200	7.9	4.6	.86	2.7	1.0
APR 14...	1120	8.59	26	161	7.80	17.0	200	5.9	21	2.2	6.3	1.7
JUN 01...	1040	7.34	4.7	526	7.20	24.0	--	2.7	--	--	--	--
AUG 03...	1011	7.94	13	391	6.80	25.0	160	4.6	45	4.2	25	4.6
SEP 14...	0920	12.86	249	80	4.70	22.0	240	6.4	10	1.3	4.3	1.3

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 17...	--	--	--	--	--	<.01	<.02	.02	1.2	.05	.04	--
DEC 15...	2.7	4.9	<.10	2.4	62	<.01	<.02	.03	.67	.07	.06	10
APR 14...	7.3	12	<.10	3.9	108	<.01	.15	.06	.68	.05	.03	69
JUN 01...	--	--	--	--	--	.09	.92	.21	.38	.13	.15	--
AUG 03...	27	42	.13	7.2	258	.03	.44	.13	1.0	.24	.24	170
SEP 14...	3.2	7.7	<.10	4.0	104	.01	.05	.04	1.1	.07	.06	25

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIE RIVER

02310147 HOLLIN CREEK NEAR TARPON SPRINGS, FL

LOCATION.--Lat 28°09'44", long 82°42'38", in SW¹/₄ 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 mi², approximately, excludes approximately 3.9 mi² 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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	109	5.4	40	6.5	30	15	.50	5.1	e.15	1.4	.23
2	9.5	78	4.2	34	16	27	14	.43	3.1	e.10	3.1	.60
3	5.5	46	3.7	29	59	24	12	.37	1.7	e.08	3.3	48
4	3.9	27	36	25	68	21	11	.56	.96	e.06	2.2	59
5	2.7	16	45	22	53	19	9.4	.63	.59	e.07	1.6	42
6	1.9	9.2	34	20	40	17	7.9	.47	.42	e.09	2.8	29
7	1.5	5.7	24	21	32	16	6.8	.39	.32	e.30	7.2	28
8	1.2	3.6	17	38	26	17	5.9	.40	.30	e.70	13	24
9	.95	2.8	13	45	21	93	5.4	.41	.25	4.4	9.2	24
10	.86	2.5	15	39	17	91	4.6	.37	.25	4.5	8.3	24
11	.76	2.3	92	31	14	68	3.8	.32	.24	7.5	6.4	19
12	.68	2.1	141	25	11	50	2.9	.29	.23	5.3	4.7	16
13	.60	6.1	e185	21	8.8	39	2.3	.27	.29	9.8	3.5	13
14	.55	31	e166	18	7.5	31	2.0	.23	.19	9.7	2.5	9.4
15	e.50	30	e115	25	10	26	1.9	.24	.20	25	2.1	7.7
16	e.45	24	56	33	85	22	1.8	.23	.19	41	2.7	5.9
17	e.40	17	37	30	153	21	1.6	.21	.21	67	5.4	5.4
18	e.50	11	26	25	125	20	1.5	.18	.23	37	3.4	7.2
19	.85	7.5	19	21	101	58	1.3	.20	.25	19	3.5	12
20	.68	4.9	15	17	133	132	1.4	.20	.28	15	3.0	17
21	.59	3.6	15	14	114	114	1.3	.21	.28	15	2.4	28
22	e.40	3.1	15	12	87	87	1.2	.22	.33	12	2.5	31
23	e.35	2.8	16	20	71	67	.94	.20	.31	10	3.2	27
24	e.30	2.5	18	25	54	55	.83	.20	.32	8.2	2.0	40
25	1.1	2.3	32	22	42	46	.79	.18	.36	6.6	1.5	50
26	.91	2.1	63	19	34	40	.74	.16	.44	5.2	1.1	57
27	48	1.8	120	17	29	35	.64	.24	.48	4.1	.80	54
28	58	1.7	116	14	28	30	.59	14	.55	3.4	.58	44
29	40	1.6	84	11	---	26	.50	11	.51	2.9	.60	35
30	23	4.0	62	9.4	---	22	.53	10	e.40	2.2	.44	29
31	50	---	49	7.8	---	18	---	8.6	---	1.7	.29	---
TOTAL	259.13	461.2	1639.3	730.2	1445.8	1362	120.56	51.91	19.28	318.05	104.71	786.43
MEAN	8.36	15.4	52.9	23.6	51.6	43.9	4.02	1.67	.64	10.3	3.38	26.2
MAX	58	109	185	45	153	132	15	14	5.1	67	13	59
MIN	.30	1.6	3.7	7.8	6.5	16	.50	.16	.19	.06	.29	.23
CFSM	2.15	3.96	13.6	6.07	13.3	11.3	1.04	.43	.17	2.64	.87	6.76
IN.	2.48	4.42	15.72	7.00	13.86	13.06	1.16	.50	.18	3.05	1.00	7.54

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1998, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1982	5.86	40.3	1996	.14	1982
1983	2.78	15.4	1998	.17	1982
1984	4.90	52.9	1998	.29	1983
1985	4.32	23.6	1998	.14	1985
1986	6.25	51.6	1998	.36	1985
1987	6.85	43.9	1998	.39	1997
1988	3.18	10.8	1993	.24	1985
1989	.87	3.00	1991	.079	1985
1990	1.33	5.07	1982	.20	1988
1991	3.85	13.7	1991	.24	1988
1992	6.38	37.0	1991	.63	1997
1993	9.28	48.7	1988	1.05	1990

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1982 - 1998
ANNUAL TOTAL	2590.28	7298.57	
ANNUAL MEAN	7.10	20.0	4.65
HIGHEST ANNUAL MEAN			20.0
LOWEST ANNUAL MEAN			1.04
HIGHEST DAILY MEAN	185 Dec 13	e185 Dec 13	313 Sep 9 1988
LOWEST DAILY MEAN	.20 Jun 22	e.06 Jul 4	.00 Many Days
ANNUAL SEVEN-DAY MINIMUM	.23 Jun 1	.12 Jul 1	.00 May 19 1982
INSTANTANEOUS PEAK FLOW		Unknown Dec 13	370 Sep 9 1988
INSTANTANEOUS PEAK STAGE		Unknown Dec 13	15.90 Sep 9 1988
ANNUAL RUNOFF (CFSM)	1.83	5.15	1.20
ANNUAL RUNOFF (INCHES)	24.83	69.98	16.27
10 PERCENT EXCEEDS	17	54	11
50 PERCENT EXCEEDS	.48	7.7	1.1
90 PERCENT EXCEEDS	.32	.29	.25

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

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02310240 JUMPING GULLY AT LOYCE, FL

LOCATION.--Lat 28°23'06", long 82°29'22", in NE¹/₄ 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 mi², revised.

PERIOD OF RECORD.--May 1964 to September 1988; October 1986 to September 1991 (gage heights only); January to September 1998.

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, PERIOD JANUARY TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	3.9	32	30	.03	.00	.00	.00	.00
2	---	---	---	---	5.8	30	28	.02	.00	.00	.02	.00
3	---	---	---	---	13	29	25	.01	.00	.00	.00	.00
4	---	---	---	---	9.7	29	21	.02	.00	.00	.00	.00
5	---	---	---	---	8.7	29	18	.02	.00	.00	.00	.00
6	---	---	---	---	8.5	29	15	.02	.00	.00	.00	.00
7	---	---	---	---	7.8	28	13	.02	.00	.00	.00	.00
8	---	---	---	---	7.2	28	10	.01	.00	.00	.00	.00
9	---	---	---	---	6.7	40	8.2	.01	.00	.00	.00	.00
10	---	---	---	---	6.1	37	6.2	.00	.00	.00	.00	.00
11	---	---	---	---	5.6	37	4.3	.00	.00	.00	.00	.00
12	---	---	---	---	5.0	38	3.1	.00	.00	.00	.00	.00
13	---	---	---	---	4.6	39	2.2	.00	.00	.00	.00	.00
14	---	---	---	---	4.5	39	1.6	.00	.00	.00	.00	.00
15	---	---	---	---	4.7	39	1.2	.00	.00	.00	.00	.00
16	---	---	---	---	19	37	.93	.00	.00	.00	.00	.00
17	---	---	---	---	21	35	.67	.00	.00	.00	.00	.00
18	---	---	---	---	16	35	.46	.00	.00	.00	.00	.00
19	---	---	---	---	15	46	.35	.00	.00	.00	.00	.00
20	---	---	---	---	23	48	.28	.00	.00	.00	.00	.00
21	---	---	---	---	23	39	.22	.00	.00	.00	.00	.00
22	---	---	---	---	24	36	.16	.00	.00	.00	.00	.00
23	---	---	---	11	28	34	.09	.00	.00	.00	.00	.00
24	---	---	---	10	28	32	.06	.00	.00	.00	.00	.00
25	---	---	---	9.2	29	31	.05	.00	.00	.00	.00	.00
26	---	---	---	8.6	28	29	.04	.00	.00	.00	.00	.00
27	---	---	---	8.2	28	27	.04	.00	.00	.00	.00	.00
28	---	---	---	7.0	29	26	.04	.00	.00	.00	.00	.00
29	---	---	---	6.3	---	30	.03	.00	.00	.00	.00	1.1
30	---	---	---	5.4	---	32	.03	.00	.00	.00	.00	3.3
31	---	---	---	4.5	---	32	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	412.8	1052	190.25	0.16	0.00	0.00	0.02	4.40
MEAN	---	---	---	---	14.7	33.9	6.34	.005	.000	.000	.001	.15
MAX	---	---	---	---	29	48	30	.03	.00	.00	.02	3.3
MIN	---	---	---	---	3.9	26	.03	.00	.00	.00	.00	.00
CFSM	---	---	---	---	.34	.79	.15	.00	.00	.00	.00	.00
IN.	---	---	---	---	.36	.91	.16	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

MEAN	13.5	2.84	2.72	3.68	5.90	6.71	2.56	.53	1.58	5.94	15.2	29.0
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

WATER YEARS 1964 - 1998

ANNUAL MEAN	6.59
HIGHEST ANNUAL MEAN	25.6
LOWEST ANNUAL MEAN	.001
HIGHEST DAILY MEAN	890
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	56
INSTANTANEOUS PEAK STAGE	4.30
ANNUAL RUNOFF (CFSM)	.15
ANNUAL RUNOFF (INCHES)	2.08
10 PERCENT EXCEEDS	21
50 PERCENT EXCEEDS	.12
90 PERCENT EXCEEDS	.00

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIE RIVER

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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	33	12	61	26	61	24	1.8	.04	.00	.24	.20
2	9.7	24	9.6	54	31	59	22	1.5	.00	.00	.69	.36
3	7.1	19	8.7	47	65	57	20	1.3	.00	.00	2.8	8.4
4	5.3	14	20	42	56	52	18	1.1	.00	.00	4.1	25
5	4.0	10	19	38	52	46	16	1.2	.00	.00	3.7	21
6	3.1	8.2	18	44	47	42	14	1.0	.00	.00	6.4	20
7	2.3	6.7	15	100	43	38	13	.86	.00	.00	9.6	36
8	1.8	5.7	13	103	39	35	12	.74	.00	.00	9.9	28
9	1.4	5.0	11	93	35	74	12	.67	.00	.00	9.5	26
10	1.1	4.3	11	86	33	67	11	.57	.00	.01	8.7	28
11	.85	3.8	30	80	30	66	10	.47	.00	.05	7.6	22
12	.66	3.3	49	75	28	62	9.2	.36	.00	.06	6.3	19
13	.52	3.5	72	69	26	57	8.5	.28	.00	.08	5.0	16
14	.42	8.9	74	62	26	50	7.8	.20	.00	.18	4.0	14
15	.33	9.1	79	68	26	44	7.2	.10	.00	1.8	3.5	13
16	.28	8.5	78	79	77	39	6.7	.10	.00	3.4	2.9	12
17	.27	7.7	74	75	88	35	6.3	.07	.00	2.2	2.5	11
18	.43	6.9	70	72	79	32	5.8	.05	.00	1.1	2.1	11
19	.74	6.2	65	67	76	61	5.4	.04	.00	.59	5.1	11
20	.50	5.5	57	61	84	84	5.1	.01	.00	1.6	4.3	18
21	.34	4.9	46	55	76	80	5.0	.00	.00	4.2	3.2	35
22	.23	4.5	39	49	74	77	4.4	.00	.00	5.5	2.8	28
23	.20	4.2	35	50	73	73	3.9	.00	.00	6.4	2.5	32
24	.17	3.9	32	49	67	68	3.4	.00	.00	4.0	1.8	35
25	.91	3.5	39	45	60	62	3.1	.00	.00	2.6	1.4	29
26	.91	3.2	52	41	53	54	2.7	.00	.00	1.8	1.0	29
27	9.4	2.9	79	39	47	44	2.4	.00	.00	1.2	.75	27
28	18	2.6	75	36	50	38	2.2	.00	.00	.87	.55	24
29	13	2.6	74	33	---	33	2.0	.00	.00	.64	.42	21
30	11	6.1	72	31	---	29	1.8	.01	.00	.51	.31	19
31	17	---	67	28	---	26	---	.07	---	.34	.25	---
TOTAL	124.96	231.7	1395.3	1832	1467	1645	264.9	12.50	0.04	39.13	113.91	618.96
MEAN	4.03	7.72	45.0	59.1	52.4	53.1	8.83	.40	.001	1.26	3.67	20.6
MAX	18	33	79	103	88	84	24	1.8	.04	6.4	9.9	36
MIN	.17	2.6	8.7	28	26	26	1.8	.00	.00	.00	.24	.20
IN.	.03	.06	.35	.45	.36	.41	.07	.00	.00	.01	.03	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1998, BY WATER YEAR (WY)

	MEAN	5.66	3.76	6.66	9.30	7.55	10.0	5.21	1.78	1.91	7.23	9.94	15.1
MAX	22.5	16.5	45.0	59.1	52.4	53.1	35.4	18.6	10.2	27.5	27.2	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	1.52	
(WY)	1994	1997	1997	1997	1997	1997	1994	1985	1998	1992	1993	1989	

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1984 - 1998
ANNUAL TOTAL	2091.03	7745.40	
ANNUAL MEAN	5.73	21.2	7.01
HIGHEST ANNUAL MEAN			21.2
LOWEST ANNUAL MEAN			1.20
HIGHEST DAILY MEAN	79	Dec 15	242
LOWEST DAILY MEAN	.00	Many Days	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 2	.00
INSTANTANEOUS PEAK FLOW			294
INSTANTANEOUS PEAK STAGE			54.37
ANNUAL RUNOFF (INCHES)	.52	1.92	.63
10 PERCENT EXCEEDS	13	67	19
50 PERCENT EXCEEDS	.34	7.8	2.1
90 PERCENT EXCEEDS	.00	.00	.03

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER
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 1997 TO SEPTEMBER 1998

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...	1440	51.77	7.7	90	5.60	13.0	--	4.7	--	--	--	--
DEC 15...	1215	52.80	81	58	5.42	14.0	--	5.9	--	--	--	--
APR 14...	1405	51.65	7.6	66	5.30	17.0	320	4.8	8.1	1.0	4.7	.6
AUG 19...	0825	51.51	5.0	114	5.90	23.5	--	3.5	--	--	--	--
SEP 14...	1240	51.88	14	75	5.30	22.5	400	3.4	11	1.1	4.0	1.2

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 17...	--	--	--	--	--	<.01	<.02	.02	1.1	<.02	<.01	--
DEC 15...	--	--	--	--	--	<.01	<.02	.03	.66	.03	.01	--
APR 14...	.9	7.5	<.10	2.0	76	<.01	<.02	.02	.87	<.02	.01	14
AUG 19...	--	--	--	--	--	<.01	<.02	.01	1.2	.02	.01	--
SEP 14...	1.1	7.8	<.10	4.7	126	.01	<.02	.03	1.2	<.02	.02	19

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER**

02310300 PITHLACHASCOTEE RIVER NEAR NEW PORT RICHEY, FL

LOCATION.--Lat 28°15'23", long 82°38'33", in NW¹/₄ 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 mi².

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	200	65	197	56	206	65	2.0	.39	.11	1.1	.62
2	52	245	73	171	63	215	57	2.0	.34	.06	3.8	.60
3	37	199	77	149	200	175	51	1.6	.31	.04	12	37
4	26	159	158	131	222	148	45	1.3	.27	.04	7.0	70
5	18	130	209	116	174	130	40	1.5	.25	.05	7.7	71
6	13	107	192	108	142	115	35	1.5	.21	.06	11	85
7	8.3	90	160	278	124	104	30	1.2	.19	.35	11	102
8	5.7	73	135	472	109	95	27	.94	.20	.50	25	97
9	4.2	58	118	432	97	295	24	.81	.34	1.5	21	103
10	3.1	47	114	309	85	337	22	.69	.24	1.0	21	90
11	2.3	36	316	239	75	245	19	.54	.18	.96	20	84
12	1.7	29	778	200	66	197	17	.41	.17	.48	21	76
13	1.3	29	917	172	59	168	15	.33	.15	.37	17	62
14	.87	73	999	153	56	145	13	.26	.12	.42	13	44
15	.56	93	740	182	58	127	11	.24	.10	13	11	34
16	.35	105	501	287	265	111	10	.23	.08	8.5	10	40
17	.27	95	356	255	590	98	8.9	.23	.06	5.9	12	21
18	.33	84	269	202	427	90	7.9	.24	.06	3.0	9.5	20
19	.73	72	228	175	295	256	6.8	.21	.06	2.2	8.3	26
20	.86	60	197	154	358	609	6.4	.20	.05	3.6	7.3	61
21	.73	50	173	137	332	467	6.3	.22	.05	18	6.4	160
22	.53	42	152	122	254	313	5.6	.24	.04	25	5.9	175
23	.39	35	133	123	223	241	4.7	.26	.04	24	7.9	160
24	.29	30	118	127	195	200	4.0	.25	.04	17	9.8	171
25	.78	25	127	121	170	171	3.5	.27	.16	12	9.2	188
26	1.1	21	185	108	147	148	3.0	.62	.18	8.3	7.1	174
27	31	19	394	99	131	128	2.6	1.1	.19	6.3	4.9	153
28	65	17	476	89	141	110	2.4	1.5	.23	4.7	3.4	128
29	99	16	336	79	---	96	2.2	1.2	.15	3.4	2.4	106
30	91	35	266	71	---	83	1.9	.84	.15	2.6	1.7	88
31	100	---	227	63	---	74	---	.62	---	1.7	1.0	---
TOTAL	638.39	2274	9189	5521	5114	5897	547.2	23.55	5.00	165.14	309.4	2627.22
MEAN	20.6	75.8	296	178	183	190	18.2	.76	.17	5.33	9.98	87.6
MAX	100	245	999	472	590	609	65	2.0	.39	25	25	188
MIN	.27	16	65	63	56	74	1.9	.20	.04	.04	1.0	.60
CFSM	.11	.42	1.65	.99	1.01	1.06	.10	.00	.00	.03	.06	.49
IN.	.13	.47	1.90	1.14	1.06	1.22	.11	.00	.00	.03	.06	.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1998, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	27.1	11.4	20.7	26.5	31.8	33.2	14.4	7.27	13.1	29.1	55.8	72.0																							
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	4.81																							
(WY)	1981	1997	1991	1997	1997	1997	1994	1985	1981	1981	1989	1980																							

SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1964 - 1998
ANNUAL TOTAL	12759.46	32310.90	
ANNUAL MEAN	35.0	88.5	28.5
HIGHEST ANNUAL MEAN			88.5
LOWEST ANNUAL MEAN			3.01
HIGHEST DAILY MEAN	999	999	1420
LOWEST DAILY MEAN	.00	.04	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.05	.00
INSTANTANEOUS PEAK FLOW		1060	1480
INSTANTANEOUS PEAK STAGE		23.42	24.67
ANNUAL RUNOFF (CFSM)	.19	.49	.16
ANNUAL RUNOFF (INCHES)	2.64	6.68	2.15
10 PERCENT EXCEEDS	102	227	75
50 PERCENT EXCEEDS	.71	30	7.7
90 PERCENT EXCEEDS	.03	.24	.58

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER
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 1997 TO SEPTEMBER 1998

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...	1140	20.47	96	117	5.70	12.0	--	8.6	--	--	--	--
DEC 15...	1030	22.82	735	51	5.59	14.0	240	8.5	6.4	.84	2.9	.9
APR 14...	1200	19.22	13	101	5.60	16.0	320	6.3	14	1.4	4.7	.9
JUN 01...	1115	17.89	.46	381	6.70	23.0	--	2.8	--	--	--	--
AUG 03...	1052	18.90	10	199	6.30	23.0	160	4.9	30	2.5	5.7	1.4
SEP 14...	0950	20.20	48	108	5.20	21.5	320	5.8	17	1.4	5.0	1.3

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 17...	--	--	--	--	--	<.01	<.02	.02	1.3	.02	<.01	--
DEC 15...	2.9	5.0	<.10	2.2	76	<.01	<.02	.03	.60	.04	.03	14
APR 14...	.9	8.3	<.10	3.1	88	<.01	.05	.04	.84	.05	.04	36
JUN 01...	--	--	--	--	--	.01	.18	.11	.38	.06	.06	--
AUG 03...	27	12	<.10	5.5	158	.01	.11	.05	1.1	.03	.02	110
SEP 14...	1.2	9.2	<.10	5.7	148	.01	<.02	.04	1.3	.03	.02	39

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

282600082392600 MAGNOLIA SPRINGS RUN AT ARIPEKA, FL

LOCATION.--Lat 28°26'00", long 82°39'26", in NE¹/₄ sec.1, T.24 S., R.16 E., Pasco County, Hydrologic Unit 03100207, 300 ft downstream from culvert on Jabert Road in Aripeka.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1997 to current year (discharge measurements only).

GAGE.--Nonrecording gage.

REMARKS.--Springs are tidally affected; all discharge measurements made at low tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 10 ft³/s, May 15, 1998; minimum measured, 6.3 ft³/s, June 4, 1997.

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, PERIOD JANUARY TO SEPTEMBER 1997

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
JAN				
17...	1125	3.80	9.2	985
MAR				
26...	0906	3.87	9.4	1090
JUN				
04...	0836	3.68	6.3	1170

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
JAN				
13...	0908	3.80	9.5	1020
MAY				
15...	0919	3.85	10	700
SEP				
15...	1710	3.78	9.5	600

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

247

02310405 BOBHILL SPRING NEAR ARIPEKA, FL

LOCATION.--Lat 28°26'07", long 82°38'34", in SW¹/₄ sec.31, T.23 S., R.17 E., Pasco County, Hydrologic Unit 03100207, 50 ft downstream from spring pool, and 1.5 mi east of Aripeka.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--January 1997 to September 1998 (discharge measurements only), discontinued.

GAGE.--Nonrecording gage.

REMARKS.--Spring flow affected by aquifer levels. Spring flow was reduced to no flow out of spring pool in September 1997.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 3.5 ft³/s, Feb. 23, 1998; minimum measured, 0.47 ft³/s, Jan. 9, 1997.

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, PERIOD JANUARY TO SEPTEMBER 1997

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
JAN				
09...	1122	6.38	.47	258
20...	1618	6.39	.80	258
MAR				
26...	0956	6.39	.88	273
JUN				
03...	1138	6.32	.60	256

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
NOV				
06...	1352	6.36	1.2	280
JAN				
13...	1120	6.50	2.1	272
FEB				
23...	1202	6.75	3.5	274
MAY				
15...	1108	6.48	2.7	263
JUN				
16...	1116	6.45	2.2	256
SEP				
14...	1127	6.62	2.7	265

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIE RIVER**

02310500 WEEKI WACHEE SPRINGS NEAR BROOKSVILLE, FL

LOCATION.--Lat 28°31'00", long 82°34'25", in NE¹/₄ 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.--508 measurements, 173 ft³/s, 112 mg/d.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 275 ft³/s, Oct. 19, 1964; maximum gage height observed, 3.86 ft, Sept. 9, 1960; minimum discharge measured, 101 ft³/s, July 24, 1956; minimum gage height observed, 0.58 ft, Aug. 5, 1932.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 3.10 ft, July 14, 15; minimum observed, 1.38 ft, Oct. 23, 24, 25.

**GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.54	1.59	1.52	1.85	2.20	2.50	2.52	2.54	2.86	2.93	3.00	---
2	1.52	1.58	1.52	1.82	2.20	2.48	2.54	2.50	2.87	2.90	2.95	---
3	1.52	1.56	1.54	1.82	2.36	2.45	2.54	2.50	2.87	2.90	2.90	---
4	1.50	1.59	1.54	1.80	2.40	2.48	2.50	2.52	2.87	2.93	2.87	---
5	1.52	1.60	1.54	1.82	2.30	2.48	---	2.56	2.88	2.90	2.85	---
6	1.50	1.62	1.56	1.86	2.30	2.48	---	2.58	2.88	2.90	2.86	2.65
7	1.49	1.58	1.52	1.88	2.30	2.48	---	2.62	2.88	2.95	2.90	2.70
8	1.47	1.61	1.56	2.00	2.36	2.50	---	2.65	2.88	2.95	2.92	2.65
9	1.46	1.61	1.62	2.00	2.30	2.50	---	2.66	2.90	2.95	---	2.65
10	1.46	1.62	1.62	2.00	2.28	2.52	---	2.68	2.89	2.95	---	2.60
11	1.46	1.64	1.62	2.10	2.28	2.50	---	2.69	2.89	3.00	---	2.60
12	1.48	1.64	1.62	2.10	2.30	2.49	2.54	2.70	2.89	3.00	---	2.60
13	1.50	1.62	1.64	2.10	2.30	2.49	2.50	2.70	2.88	3.00	---	2.58
14	1.46	1.62	1.74	2.12	2.30	2.50	2.54	2.70	2.90	3.10	---	2.54
15	1.44	1.62	1.75	2.12	2.30	2.48	2.52	2.68	2.90	3.10	---	2.50
16	1.45	1.62	1.72	2.25	2.32	2.46	2.54	2.70	2.90	3.05	2.89	2.55
17	1.46	1.64	1.72	2.25	2.36	2.46	2.56	2.70	2.90	3.00	2.85	2.55
18	1.47	1.61	1.70	2.25	2.40	2.46	2.58	2.76	2.90	2.95	2.85	2.55
19	1.48	1.58	1.72	2.25	2.40	2.48	2.58	2.78	2.90	3.00	2.90	2.56
20	1.46	1.58	1.74	2.24	2.46	2.50	2.56	2.76	2.88	2.95	2.85	2.60
21	1.43	1.58	1.74	2.24	2.42	2.52	2.56	2.74	2.90	2.92	2.87	2.65
22	1.40	1.56	1.74	2.26	2.48	2.55	2.58	2.75	2.90	2.90	2.90	2.70
23	1.38	1.58	1.80	2.28	2.50	2.54	2.57	2.79	2.90	2.85	2.90	2.70
24	1.38	1.56	1.80	2.28	2.50	2.50	2.58	2.82	2.90	2.85	2.80	2.75
25	1.38	1.56	1.80	---	2.52	2.50	2.58	2.82	2.92	2.87	2.75	2.74
26	1.63	1.56	1.80	---	2.50	2.50	2.56	2.84	2.91	2.89	2.74	2.70
27	1.62	1.56	1.82	---	2.50	2.52	2.56	2.85	2.92	2.90	2.75	2.70
28	1.62	1.58	1.82	---	2.50	2.52	2.58	2.86	2.90	2.92	2.73	2.72
29	1.64	1.58	1.82	---	---	2.50	2.57	2.85	2.93	2.93	2.70	2.70
30	1.66	1.58	1.87	---	---	2.52	2.58	2.85	2.93	2.95	---	2.68
31	1.61	---	1.87	---	---	2.52	---	2.86	---	3.00	---	---
MEAN	1.50	1.59	1.69	---	2.37	2.50	---	2.71	2.89	2.95	---	---
MAX	1.66	1.64	1.87	---	2.52	2.55	---	2.86	2.93	3.10	---	---
MIN	1.38	1.56	1.52	---	2.20	2.45	---	2.50	2.86	2.85	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER
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 1997 TO SEPTEMBER 1998

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 17...	1320	1.60	308	8.30	23.0	2.4	<.01	.58	.02	<.20	<.02	<.01
APR 14...	1310	2.52	300	7.20	22.0	2.2	<.01	.58	.01	<.20	<.02	<.01
JUN 01...	1223	2.86	302	7.10	22.0	2.6	<.01	.58	<.01	<.20	<.02	.01
AUG 03...	1204	2.89	301	8.00	22.0	2.7	<.01	.56	.02	<.20	.02	.01
SEP 14...	1100	2.55	302	6.80	22.0	3.1	.01	.59	.03	<.20	.05	.01

**PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIE RIVER**

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	131	141	163	202	223	227	216	201	185	185	187
2	126	132	141	163	202	224	227	215	201	185	187	188
3	127	133	141	163	204	224	227	214	200	185	187	190
4	127	134	141	164	205	224	227	214	200	184	188	191
5	127	135	141	165	205	224	226	214	200	184	189	191
6	127	135	141	165	206	224	226	213	199	183	189	192
7	127	136	141	169	207	224	225	213	198	183	189	192
8	127	137	141	173	207	225	225	213	198	183	190	192
9	127	137	141	178	207	225	224	212	197	183	190	192
10	127	138	141	181	207	225	224	212	196	183	190	192
11	127	139	142	183	207	225	223	212	196	183	190	193
12	127	139	143	185	207	225	223	211	196	183	190	192
13	127	139	144	187	207	226	222	210	195	183	190	192
14	127	140	146	188	208	226	222	210	194	183	190	192
15	126	140	148	190	208	226	222	209	194	184	189	192
16	126	140	150	191	209	226	221	209	193	185	189	192
17	127	140	152	193	211	226	221	208	192	185	189	193
18	127	141	153	194	213	226	221	208	192	185	189	193
19	127	141	154	195	215	227	220	207	192	185	189	193
20	127	141	155	196	216	228	220	206	191	185	189	195
21	126	141	156	197	217	228	219	206	191	187	189	196
22	126	141	157	198	219	228	219	206	190	187	189	197
23	126	141	158	199	220	228	218	205	189	188	188	198
24	126	141	158	199	220	228	218	204	188	188	188	199
25	126	140	159	199	221	228	217	204	188	188	188	199
26	126	140	160	200	222	228	217	204	187	188	187	201
27	127	140	161	201	222	228	217	203	187	187	187	201
28	128	140	161	201	223	229	216	203	187	187	187	202
29	129	140	162	201	---	228	215	203	187	187	187	202
30	130	141	162	202	---	228	215	202	186	186	187	203
31	130	---	163	202	---	228	---	202	---	186	187	---
TOTAL	3936	4153	4654	5785	5917	7012	6644	6468	5805	5738	5842	5832
MEAN	127	138	150	187	211	226	221	209	194	185	188	194
MAX	130	141	163	202	223	229	227	216	201	188	190	203
MIN	126	131	141	163	202	223	215	202	186	183	185	187

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1998, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998
MEAN	151	154	150	154	158
MAX	171	179	171	187	211
(WY)	1997	1996	1996	1998	1998
MIN	127	137	127	122	133
(WY)	1998	1994	1994	1994	1997

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1994 - 1998
ANNUAL TOTAL	47098	67786	
ANNUAL MEAN	129	186	151
HIGHEST ANNUAL MEAN			186
LOWEST ANNUAL MEAN			124
HIGHEST DAILY MEAN	163	229	229
LOWEST DAILY MEAN	116	126	101
ANNUAL SEVEN-DAY MINIMUM	116	126	102
10 PERCENT EXCEEDS	143	224	191
50 PERCENT EXCEEDS	126	191	146
90 PERCENT EXCEEDS	118	135	119

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

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02310600 GULF OF MEXICO NEAR BAYPORT, FL

LOCATION.--Lat 28°32'00", long 82°39'01", on line between secs. 25 and 36, T.22 S., R.16 E., Hernando County, Hydrologic Unit 03100207, at mouth of Weeki Wachee River, on Florida Department of Transportation pier at terminus of County Road 550, and 1.1 mi southwest of Bayport.

PERIOD OF RECORD.--January 1964 to September 1965 (elevations only); October 1965 to September 1976 (maximum and minimum gage heights only); October 1976 to September 1989 (maximum and minimum elevations only); January 1997 to current year (maximum and minimum gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 9.35 ft below National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS.--Gage records water levels and tidal fluctuations in Gulf of Mexico. The stage record published is the maximum and minimum tide event for each calendar day, except on those days when no maximum or minimum tide event occurred.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.27 ft, Aug. 31, 1985 (result of storm surge); minimum, 2.35 ft below NGVD, Feb. 12, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.26 ft, Sept. 3; minimum, 2.19 ft below NGVD, Jan. 1.

GAGE HEIGHT, FEET, PERIOD JANUARY TO SEPTEMBER 1997

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	---	---	---	---	---	---	---	---	1.80	-1.09	2.15	-1.03
2	---	---	---	---	---	---	---	---	1.87	-1.08	2.03	-1.02
3	---	---	---	---	---	---	---	---	1.91	-1.30	2.01	-1.03
4	---	---	---	---	---	---	---	---	2.54	-1.60	1.90	-1.06
5	---	---	---	---	---	---	---	---	2.61	-1.53	2.49	-1.52
6	---	---	---	---	---	---	---	---	2.62	-1.58	2.21	-1.17
7	---	---	---	---	---	---	---	---	2.62	-1.56	1.31	-1.99
8	---	---	---	---	---	---	---	---	3.09	-1.19	2.05	-1.49
9	---	---	---	---	---	---	---	---	2.08	-1.65	2.45	-1.41
10	---	---	---	---	---	---	---	---	1.87	-1.33	2.52	-1.19
11	---	---	---	---	---	---	---	---	1.67	-1.40	2.32	-1.09
12	---	---	---	---	---	---	---	---	1.95	-1.28	2.12	-1.40
13	---	---	---	---	---	---	---	---	2.80	-1.25	2.52	-1.47
14	---	---	---	---	---	---	---	---	2.39	-.57	2.62	-.70
15	---	---	---	---	---	---	---	---	1.41	-.87	2.13	-.47
16	---	---	---	---	---	---	---	---	.52	-1.99	.89	-1.34
17	---	---	---	---	---	---	---	---	.28	-2.01	1.42	-1.74
18	---	---	---	---	---	---	---	---	1.39	-1.95	1.72	-1.26
19	---	---	---	---	---	---	---	---	1.92	-1.62	2.05	-.94
20	---	---	---	---	---	---	---	---	1.94	-1.49	2.46	-.89
21	---	---	---	---	---	---	---	---	2.28	-1.28	2.47	-.70
22	---	---	---	---	---	---	---	---	2.66	-1.06	2.47	-.44
23	---	---	---	---	---	---	---	---	2.09	-1.62	2.33	-.86
24	---	---	---	---	---	---	---	---	1.03	-1.93	1.82	-1.33
25	---	---	---	---	---	---	---	---	1.69	-1.45	2.33	-1.06
26	---	---	---	---	---	---	---	---	2.28	-.89	2.56	-.86
27	---	---	---	---	---	---	---	---	2.45	-.85	2.12	-1.13
28	---	---	---	---	---	---	---	---	2.28	-.99	2.53	-.98
29	---	---	---	---	---	---	---	---	---	---	1.85	-1.06
30	---	---	---	---	---	---	1.39	-.92	---	---	2.10	-1.18
31	---	---	---	---	---	---	1.27	-.88	---	---	1.78	-.60
MONTH	---	---	---	---	---	---	---	---	3.09	-2.01	2.62	-1.99

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIE RIVER

02310600 GULF OF MEXICO NEAR BAYPORT, FL--Continued

GAGE HEIGHT, FEET, PERIOD JANUARY TO SEPTEMBER 1997

DAY	MAX APRIL	MIN	MAX MAY	MIN	MAX JUNE	MIN	MAX JULY	MIN	MAX AUGUST	MIN	MAX SEPTEMBER	MIN
1	1.07	-1.61	2.15	-.66	3.13	-.14	2.26	-.87	2.23	-1.18	2.42	-.94
2	1.49	-1.63	2.30	-.64	2.54	-1.01	2.66	-.70	2.95	-.96	2.66	-.71
3	2.12	-1.47	2.67	-.54	2.55	-1.08	2.55	-.93	2.69	-.85	2.62	-.52
4	2.37	-1.21	2.26	-.90	2.70	-1.10	2.90	-1.01	2.86	-.30	2.54	-.93
5	2.65	-1.03	1.49	-1.24	2.90	-1.23	2.76	-1.22	2.41	-.43	1.62	-1.18
6	2.73	-.93	2.81	-1.03	2.43	-1.30	2.51	-1.16	2.28	-.60	1.78	-.88
7	2.77	-1.10	2.75	-1.21	2.37	-1.39	2.27	-1.11	2.07	-.80	1.79	-.59
8	2.24	-1.52	3.09	-1.11	2.06	-1.39	2.05	-1.07	1.63	-.90	2.22	-.33
9	2.14	-1.49	2.71	-1.11	2.02	-1.27	2.05	-.99	1.64	-.89	2.29	-.29
10	2.15	-1.54	2.25	-1.21	1.85	-1.32	1.96	-.75	1.78	-.57	2.18	-.25
11	2.42	-1.58	2.07	-1.35	1.61	-1.07	1.98	-.50	1.83	-.65	2.41	-.37
12	2.58	-.92	2.46	-1.30	1.95	-.83	1.95	-.53	1.97	-.60	2.42	-.59
13	2.06	-.91	1.82	-.48	2.37	.14	1.77	-.47	2.00	-.83	2.61	-.80
14	.01	-1.09	1.49	-.49	2.42	.05	2.04	-.40	2.33	-.82	2.89	-.85
15	.63	-1.43	1.61	-.60	2.77	-.03	2.13	-.75	2.68	-.98	3.17	-.69
16	1.13	-1.35	1.47	-.61	2.34	-.72	2.18	-1.09	2.83	-1.11	3.22	-.53
17	2.42	-.82	1.76	-.75	2.46	-.75	2.44	-1.02	2.99	-.99	2.98	-.75
18	2.16	-.61	1.90	-1.03	2.84	-.83	2.75	-1.01	3.11	-.99	2.65	-.86
19	2.09	-.58	2.32	-.95	2.64	-1.10	3.11	-1.22	3.03	-.80	2.33	-.98
20	2.13	-.72	2.35	-1.13	2.45	-1.22	3.30	-1.10	2.92	-.64	2.48	-.97
21	2.55	-.87	2.42	-1.23	2.68	-1.22	2.96	-1.03	2.60	-.28	2.46	-.88
22	2.66	-.90	2.31	-1.55	2.67	-1.24	2.84	-1.04	2.34	-.59	2.14	-.87
23	3.89	.24	2.55	-1.48	2.60	-1.19	2.85	-.94	2.16	-.73	2.11	-.55
24	2.33	-1.30	2.92	-1.37	2.40	-1.23	2.34	-.72	2.14	-.66	1.98	-.15
25	2.58	-1.19	3.12	-1.06	2.36	-1.21	1.94	-.60	1.73	-.83	2.07	.15
26	2.51	-1.14	2.65	-1.03	1.91	-.98	2.10	-.61	1.74	-.94	2.21	-.43
27	3.09	-1.12	2.31	-1.06	1.78	-.86	2.21	-.52	2.04	-.69	2.51	-.12
28	3.03	-.51	1.30	-1.28	1.87	-.64	2.10	-.72	2.33	-.69	2.95	-.08
29	1.85	-.46	1.37	-1.49	2.34	-.75	2.15	-.89	2.38	-.79	2.01	-.78
30	1.87	-.87	1.73	-1.23	2.23	-.79	2.24	-1.04	2.44	-.86	2.16	-.68
31	---	---	1.99	-.97	---	---	2.54	-.98	2.57	-.85	---	---
MONTH	3.89	-1.63	3.12	-1.55	3.13	-1.39	3.30	-1.22	3.11	-1.18	3.22	-1.18

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.05	-.67	3.61	-.57	3.66	-.87	.31	-2.19	2.16	-1.25	2.61	-.87
2	2.39	-.86	3.81	-.06	1.94	-1.58	.87	-1.84	2.79	-1.20	2.68	-.67
3	1.87	-1.11	2.49	-1.18	2.01	-1.57	1.31	-1.65	3.59	-.30	2.14	-.67
4	1.91	-.99	1.95	-1.49	2.25	-1.22	1.49	-1.43	3.52	1.70	1.85	-.77
5	2.02	-1.05	1.60	-1.40	2.02	-1.35	1.67	-1.02	1.76	.19	2.33	-1.16
6	1.79	-1.11	1.52	-1.07	1.27	-1.35	1.78	-1.21	1.84	-1.36	2.04	-.97
7	1.60	-1.05	2.10	-.23	.98	-1.31	2.68	-1.30	1.78	-.66	2.58	-1.12
8	1.63	-.87	1.42	-.46	2.00	-.90	2.23	-.46	1.87	-1.43	3.94	-.35
9	1.80	-1.03	1.93	-.65	2.09	-.45	1.88	-.80	1.86	-1.62	3.27	.56
10	1.75	-1.19	2.19	-.70	2.39	-.92	1.81	-1.61	2.08	-1.59	2.27	-1.26
11	1.73	-1.11	2.32	-.86	2.28	-1.16	1.63	-1.81	2.79	-1.32	1.22	-1.66
12	2.24	-.91	3.14	-1.03	2.30	-1.49	1.79	-1.87	2.95	-1.14	1.07	-1.80
13	2.43	-.61	3.51	-.46	2.02	-1.49	2.43	-1.53	2.48	-1.06	1.35	-1.43
14	2.58	-.75	3.52	-.60	2.14	-1.14	2.33	-1.62	1.94	-1.29	1.51	-1.55
15	2.64	-.93	2.88	-1.30	1.84	-1.59	2.64	-1.23	1.78	-1.19	1.54	-1.45
16	2.52	-1.04	1.89	-1.57	.99	-1.75	2.80	-.22	2.76	-1.07	2.34	-1.12
17	2.30	-1.12	1.04	-1.90	1.33	-1.71	1.54	-1.27	3.51	-.65	2.90	-1.15
18	2.71	-1.07	1.55	-1.48	1.68	-1.63	1.61	-1.32	2.06	-.73	2.89	-.90
19	2.65	-.96	1.73	-1.46	1.55	-1.50	2.03	-.62	2.19	-.94	2.74	-.67
20	1.88	-1.16	1.46	-1.27	1.38	-1.31	1.69	-.94	1.47	-.87	2.95	-.79
21	2.06	-.86	1.79	-.81	1.79	-.65	1.67	-1.08	1.28	-1.27	1.98	.30
22	2.20	-.51	1.59	-.53	1.97	-.22	2.40	-.81	3.83	-1.73	1.58	-1.07
23	1.67	-.47	1.55	-.88	1.69	-.48	2.45	-.64	3.48	-.34	1.37	-1.29
24	2.78	.19	.71	-1.44	2.53	-.92	1.93	-1.08	2.50	-.94	1.90	-1.60
25	2.25	.25	1.35	-1.75	2.15	-.59	1.55	-1.73	1.87	-1.58	2.06	-1.57
26	2.77	.47	1.97	-1.14	2.10	-1.11	2.65	-1.83	2.37	-1.47	2.06	-1.59
27	3.78	.17	1.96	-1.35	2.32	-.49	2.69	-.92	3.48	-.65	2.29	-1.44
28	1.87	-.89	2.55	-1.30	2.23	-1.81	2.77	-1.07	3.30	-.78	2.76	-1.13
29	1.87	-.98	2.90	-1.31	2.33	-1.30	2.28	-1.49	---	---	2.56	-1.41
30	2.23	-1.15	3.31	-1.06	2.40	-.89	2.60	-1.37	---	---	2.63	-1.56
31	2.76	-.89	---	---	1.99	-1.57	2.58	-1.27	---	---	3.08	-1.56
MONTH	3.78	-1.19	3.81	-1.90	3.66	-1.81	2.80	-2.19	3.83	-1.73	3.94	-1.80
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.72	-1.23	2.26	-.55	2.09	-.68	2.03	-.05	1.93	-.78	2.27	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIE RIVER

02310650 CHASSAHOWITZKA RIVER NEAR HOMOSASSA, FL

LOCATION.--Lat 28°42'54", long 82°34'35", in SW¹/₄ sec.26, T.20 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on left bank just downstream from head of springs, 4.9 mi upstream from mouth, and 5.1 mi southeast of Homosassa.

GAGE HEIGHT RECORDS

PERIOD OF RECORD.--January 1964 to September 1965 (gage-heights and periodic discharge measurements only); October 1965 to September 1977 (periodic discharge measurements and maximum and minimum gage heights only); October 1977 to September 1978 (periodic discharge measurements and maximum and minimum elevations only); February 1997 to current year (gage-heights and periodic discharge measurements only).

GAGE.--Water-stage recorder. Datum of gage is 5.10 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS.--Affected by tide. Discharge measurements made about 200 ft downstream from head of springs; measurements made prior to November 1997 include flow from Crab Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 208 ft³/s, Jan. 8, 1973; maximum gage height, 5.16 ft, Sept. 10, 1964; minimum discharge measured, 13 ft³/s, June 18, 1998; minimum gage height, 0.05 ft below NGVD, Aug. 7, 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.05 ft, Sept. 3; minimum, 0.43 ft, Oct. 10.

GAGE HEIGHT, FEET, PERIOD FEBRUARY TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	.84	.85	1.30	1.73	1.21	1.01	.98
2	---	---	---	---	---	.88	.85	1.37	1.55	1.43	1.14	1.11
3	---	---	---	---	---	1.00	.99	1.59	1.41	1.31	1.24	1.24
4	---	---	---	---	---	.91	1.24	1.33	1.33	1.30	1.41	1.17
5	---	---	---	---	---	.91	1.41	.95	1.19	1.35	1.47	.67
6	---	---	---	---	---	1.02	1.55	1.28	1.20	1.22	1.25	.76
7	---	---	---	---	---	.54	1.56	1.36	1.11	1.08	1.06	.88
8	---	---	---	---	---	.76	1.15	1.43	.89	.95	.81	1.10
9	---	---	---	---	---	.88	1.04	1.40	.93	1.00	.80	1.16
10	---	---	---	---	---	.99	1.01	1.32	.93	1.14	.78	1.19
11	---	---	---	---	---	.98	1.16	1.08	.94	1.02	.78	1.35
12	---	---	---	---	---	.90	1.55	1.31	1.18	.98	.87	1.26
13	---	---	---	---	---	.92	1.33	1.37	1.55	.91	.91	1.32
14	---	---	---	---	---	1.38	.90	1.21	1.59	.95	1.13	1.29
15	---	---	---	---	---	1.01	.81	1.15	1.69	1.05	1.29	1.33
16	---	---	---	---	---	.65	.85	1.08	1.30	1.06	1.21	1.41
17	---	---	---	---	---	.64	1.14	1.10	1.30	1.06	1.20	1.35
18	---	---	---	---	---	.82	1.09	1.11	1.45	1.19	1.21	1.29
19	---	---	---	---	---	.98	1.15	1.18	1.39	1.32	1.25	1.16
20	---	---	---	---	---	1.06	1.37	1.27	1.14	1.37	1.28	1.16
21	---	---	---	---	1.02	1.17	1.40	1.29	1.16	1.27	1.45	1.11
22	---	---	---	---	1.12	1.20	1.63	1.17	1.12	1.16	1.27	.97
23	---	---	---	---	.72	1.13	2.12	1.13	1.20	1.20	1.06	1.00
24	---	---	---	---	.48	.81	1.44	1.28	1.21	1.17	.98	1.10
25	---	---	---	---	.55	.90	1.26	1.45	1.13	1.07	.74	1.34
26	---	---	---	---	.83	1.21	1.25	1.43	1.09	1.04	.67	1.56
27	---	---	---	---	1.04	1.19	1.60	1.28	1.05	1.14	.83	1.42
28	---	---	---	---	.93	1.22	2.18	.98	1.05	1.04	1.10	1.70
29	---	---	---	---	---	1.23	1.75	.86	1.16	1.06	1.21	1.15
30	---	---	---	---	---	1.18	1.23	.97	1.16	1.10	1.12	1.07
31	---	---	---	---	---	1.08	---	1.12	---	1.14	1.11	---
MEAN	---	---	---	---	---	.98	1.30	1.23	1.24	1.14	1.09	1.19
MAX	---	---	---	---	---	1.38	2.18	1.59	1.73	1.43	1.47	1.70
MIN	---	---	---	---	---	.54	.81	.86	.89	.91	.67	.67

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310650 CHASSAHOWITZKA RIVER NEAR HOMOSASSA, FL

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.06	1.88	1.57	---	1.36	---	1.71	---	1.74	1.60	1.15	1.35
2	1.14	1.97	1.05	---	1.49	---	1.80	---	1.78	1.41	1.09	1.38
3	.80	1.20	1.08	---	2.21	---	1.90	---	1.68	1.25	1.15	3.16
4	.88	.93	1.25	---	2.94	1.81	1.88	---	1.76	1.26	1.20	1.82
5	.80	.84	1.07	---	1.85	2.08	1.84	---	1.79	1.27	1.26	1.40
6	.70	.93	.88	---	1.39	1.95	1.95	---	1.82	1.41	1.28	1.38
7	.72	1.25	.86	---	1.44	1.93	1.99	1.82	1.70	1.46	1.35	1.41
8	.76	.89	.96	---	1.43	1.89	1.91	2.23	1.49	1.50	1.35	1.59
9	.81	.97	1.25	---	1.41	1.78	2.05	2.16	1.62	1.57	1.23	1.60
10	.76	1.16	1.40	---	1.41	1.61	2.16	2.23	1.66	1.75	1.20	1.21
11	.69	1.17	1.31	---	1.74	1.81	1.78	2.19	1.65	1.64	1.29	1.24
12	.91	1.33	1.18	---	1.74	1.80	1.77	1.83	1.63	1.46	1.29	1.24
13	1.10	2.17	1.25	---	1.54	1.98	1.94	1.77	1.70	1.40	1.20	1.28
14	1.17	2.01	1.24	---	1.43	2.48	2.11	1.77	1.76	1.45	1.15	1.20
15	1.21	1.36	1.08	---	1.38	2.45	2.34	1.79	1.92	1.56	1.12	1.21
16	1.20	1.00	.97	---	2.05	1.69	1.95	1.80	1.80	1.64	1.07	1.35
17	1.11	.78	1.02	---	2.27	1.58	1.68	1.88	1.67	1.42	1.15	1.73
18	1.22	.89	1.08	---	1.74	1.55	1.70	1.91	1.59	1.41	1.18	---
19	1.17	.97	1.05	---	1.57	1.58	1.82	1.81	1.58	1.32	1.17	---
20	.89	.97	1.02	---	1.60	1.62	2.00	1.72	1.56	1.36	1.12	---
21	1.03	1.11	1.16	---	1.50	1.62	1.99	1.75	1.58	1.39	1.01	---
22	1.20	1.06	1.29	---	1.74	1.70	2.07	1.79	1.57	1.47	1.16	---
23	.96	.99	1.19	1.61	2.52	1.80	2.07	1.87	1.55	1.52	1.19	---
24	1.23	.82	1.42	1.59	1.78	2.01	1.93	1.87	1.61	1.42	1.26	---
25	1.57	.75	1.71	1.22	---	2.09	2.00	1.85	1.63	1.39	1.21	---
26	1.71	.94	---	1.23	---	2.38	---	1.89	1.48	1.29	1.36	---
27	2.23	1.05	---	1.74	---	2.00	---	1.91	1.54	1.31	1.43	---
28	1.01	1.14	---	1.63	---	1.78	---	1.83	1.51	1.33	1.31	---
29	.93	1.30	---	1.40	---	1.72	---	1.78	1.39	1.30	1.34	---
30	1.02	1.68	---	1.48	---	1.75	---	1.69	1.50	1.27	1.22	---
31	1.52	---	---	1.51	---	1.74	---	1.67	---	1.25	1.35	---
MEAN	1.08	1.18	---	---	---	---	---	---	1.64	1.42	1.22	---
MAX	2.23	2.17	---	---	---	---	---	---	1.92	1.75	1.43	---
MIN	.69	.75	---	---	---	---	---	---	1.39	1.25	1.01	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIE RIVER

02310650 CHASSAHOWITZKA RIVER NEAR HOMOSASSA, FL

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, PERIOD JUNE TO SEPTEMBER 1997

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
JUN				
04...	0701	1.20	93	7070
04...	0757	1.10	96	6850
04...	0900	1.00	93	6580
04...	0956	.92	88	6740
04...	1058	.86	75	6740
04...	1157	.88	59	6500

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
NOV				
05...	0830	1.06	80	2490
05...	0900	1.00	78	2090
05...	1000	.90	76	1960
05...	1100	.81	69	1850
05...	1200	.76	68	1850
05...	1300	.70	69	1900
05...	1400	.66	64	2010
05...	1500	.64	67	2040
05...	1600	.62	68	2050
05...	1659	.62	62	2080
FEB				
25...	0952	1.50	81	1010
25...	1101	1.48	79	802
25...	1200	1.46	79	740
25...	1300	1.44	79	729
25...	1400	1.45	79	734
25...	1500	1.49	74	723
25...	1600	1.60	49	719
JUN				
18...	0909	1.36	53	830
18...	1003	1.50	27	840
18...	1100	1.73	13	1040
18...	1200	1.87	40	980
18...	1300	1.90	73	1000
18...	1400	1.86	76	940
18...	1500	1.80	86	850
18...	1600	1.72	94	840

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIE RIVER

257

02310652 CRAB CREEK NEAR HOMOSASSA, FL

LOCATION.--Lat 28°43'00", long 82°34'34", in SW¹/₄ sec.26, T.20 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on private dock, 0.1 mi upstream from confluence with Chassahowitzka River, and 6.0 mi southeast of Homosassa.

GAGE HEIGHT RECORDS

PERIOD OF RECORD.--April 1997 to September 1998 (gage-heights and miscellaneous measurements), incomplete, (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 4.96 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Creek affected by tidal fluctuations.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.12 ft, Sept. 3; minimum, 1.38 ft, Nov. 5.

GAGE HEIGHT, FEET, PERIOD NOVEMBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	2.06	1.79	2.02	2.38	2.46	2.49	2.24	2.01	1.68	1.77
2	---	---	1.69	1.78	2.10	2.40	2.42	2.42	2.25	1.88	1.64	1.79
3	---	---	1.71	1.82	2.62	2.30	2.46	2.36	2.18	1.79	1.68	3.32
4	---	1.53	1.81	1.84	3.25	2.20	2.58	2.33	2.24	1.78	1.71	2.16
5	---	1.47	1.71	1.86	2.36	2.27	2.42	2.37	2.26	1.78	1.75	1.82
6	---	1.52	1.61	1.90	2.04	2.29	2.30	2.36	2.28	1.88	1.76	1.81
7	---	1.73	1.61	2.06	2.08	2.33	2.38	2.42	2.18	1.91	1.81	1.83
8	---	1.50	1.66	2.20	2.07	2.63	2.54	2.73	2.04	1.94	1.81	1.96
9	---	1.55	1.83	2.05	2.06	3.04	2.71	2.67	2.14	1.96	1.72	1.97
10	---	1.67	1.93	1.95	2.07	2.36	2.58	2.73	2.15	2.17	1.70	1.67
11	---	1.69	1.89	1.89	2.27	2.19	2.29	2.69	2.13	1.99	1.75	1.69
12	---	1.79	1.82	1.89	2.28	2.16	2.28	2.41	2.12	1.85	1.75	1.69
13	---	2.48	1.86	1.99	2.14	2.17	2.34	2.36	2.16	1.81	1.68	1.72
14	---	2.35	1.87	1.98	2.08	2.19	2.45	2.36	2.19	1.83	1.65	1.66
15	---	1.84	1.78	2.12	2.05	2.21	2.48	2.37	2.32	1.95	1.63	1.67
16	---	1.61	1.73	2.39	2.51	2.24	2.50	2.37	2.22	2.05	1.60	1.77
17	---	1.49	1.76	1.96	2.69	2.31	2.54	2.41	2.09	1.89	1.65	2.08
18	---	1.54	1.79	1.93	2.27	2.41	2.43	2.43	2.04	1.88	1.67	2.12
19	---	1.60	1.78	2.07	2.15	2.53	2.46	2.36	2.04	1.82	1.66	2.22
20	---	1.60	1.77	1.94	2.17	2.68	2.34	2.29	2.02	1.84	1.63	2.17
21	---	1.68	1.84	1.93	2.12	2.59	2.34	2.30	2.03	1.86	1.56	2.10
22	---	1.65	1.91	2.04	2.27	2.33	2.39	2.32	2.03	1.92	1.66	2.02
23	---	1.62	1.86	2.17	2.87	2.28	2.42	2.37	2.01	1.96	1.67	1.96
24	---	1.54	2.00	2.15	2.31	2.28	2.34	2.37	2.05	1.88	1.72	1.66
25	---	1.52	2.19	1.93	2.16	2.31	2.35	2.35	2.05	1.85	1.68	1.51
26	---	1.60	2.06	1.94	2.24	2.29	2.39	2.38	1.96	1.78	1.78	1.79
27	---	1.67	2.21	2.24	2.50	2.33	2.44	2.38	1.99	1.79	1.83	2.27
28	---	1.72	1.89	2.19	2.48	2.39	2.42	2.32	1.97	1.80	1.75	2.09
29	---	1.83	2.09	2.04	---	2.41	2.41	2.28	1.88	1.78	1.76	2.02
30	---	2.11	2.06	2.09	---	2.36	2.48	2.21	1.95	1.75	1.67	2.85
31	---	---	1.92	2.10	---	2.42	---	2.19	---	1.74	1.77	---
MEAN	---	---	1.86	2.01	2.29	2.36	2.43	2.40	2.11	1.87	1.70	1.97
MAX	---	---	2.21	2.39	3.25	3.04	2.71	2.73	2.32	2.17	1.83	3.32
MIN	---	---	1.61	1.78	2.02	2.16	2.28	2.19	1.88	1.74	1.56	1.51

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310652 CRAB CREEK NEAR HOMOSASSA, FL--Continued

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, PERIOD APRIL TO SEPTEMBER 1997

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
APR 1997				
02...	1422	1.88	33	6560
JUN				
04...	0700	1.85	36	7180
04...	0756	1.78	39	7060
04...	0904	1.67	36	6900
04...	1000	1.64	43	6840
04...	1059	1.60	39	6870
04...	1200	1.61	38	7020

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
NOV				
05...	0758	1.68	36	8520
05...	0858	1.59	37	8520
05...	0958	1.54	40	8520
05...	1058	1.48	42	8520
05...	1158	1.44	40	8520
05...	1258	1.42	41	8490
05...	1358	1.40	40	8480
05...	1458	1.39	41	8450
05...	1558	1.39	41	8410
05...	1658	1.38	41	8390
FEB 1998				
25...	1000	2.12	51	3400
25...	1100	2.11	52	3340
25...	1200	2.10	51	3340
25...	1300	2.10	50	3320
25...	1400	2.10	51	3370
25...	1458	2.11	53	3450
25...	1600	2.16	50	3600
JUN				
18...	0858	1.88	51	3550
18...	1002	1.97	49	3650
18...	1102	2.12	47	3720
18...	1159	2.22	51	3740
18...	1302	2.26	46	3640
18...	1405	2.23	51	3380
18...	1506	2.18	50	3340
18...	1600	2.13	53	3300

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

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02310655 UNNAMED TRIBUTARY TO CHASSAHOWITZKA RIVER NEAR CHASSAHOWITZKA, FL

LOCATION.--Lat 28°42'54", long 82°34'35", in SW¹/₄ sec.26, T.20 S., R.17 E., Citrus County, Hydrologic Unit 03100207, 100 ft upstream from Chassahowitzka main spring, and 1.5 mi west of Chassahowitzka.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1997 to September 1998 (discharge measurements only), discontinued.

GAGE.--Nonrecording gage. Datum of gage has not been determined.

REMARKS.--Tributary discharge consists of discharge from several small springs and a channel that can serve as storage into Chassahowitzka River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 60 ft³/s, Nov. 5, 1997; minimum measured, 0.33 ft³/s, June 18, 1998.

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, PERIOD JUNE TO SEPTEMBER 1997

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
JUN				
04...	0700	2.01	44	1900
04...	0800	1.90	45	1750
04...	0900	1.81	45	1490
04...	1000	1.72	41	1300
04...	1100	1.67	35	1300
04...	1200	1.68	19	1350

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
NOV				
05...	0800	1.76	60	1650
05...	0900	1.70	57	1300
05...	1000	1.60	56	1330
05...	1100	1.51	54	1290
05...	1200	1.46	49	1310
05...	1300	1.40	45	1380
05...	1400	1.36	42	1360
05...	1500	1.34	42	1440
05...	1600	1.32	39	1410
05...	1700	1.32	38	1300
FEB				
25...	1000	2.20	56	660
25...	1100	2.18	50	660
25...	1200	2.16	48	660
25...	1300	2.14	47	660
25...	1400	2.15	45	660
25...	1500	2.19	36	570
25...	1600	2.30	19	470
JUN				
18...	0900	2.06	21	--
18...	1000	2.20	.83	--
18...	1100	2.43	.33	--
18...	1200	2.57	12	490
18...	1300	2.60	37	488
18...	1400	2.56	45	504
18...	1500	2.50	47	526
18...	1600	2.42	48	540

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIE RIVER

284254082362300 CHASSAHOWITZKA RIVER ABOVE JOHNSON CREEK NEAR CHASSAHOWITZKA, FL

LOCATION.--Lat 28°42'54", long 82°36'23", in SE 1/4 sec.28, T.20 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on private dock, on right edge of water, 0.3 mi upstream from confluence with Johnson Creek, and 2.0 mi west of Chassahowitzka.

PERIOD OF RECORD.--May 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 observed, 3.74 ft, Nov. 1, 1984; minimum gage height observed, 1.22 ft below NGVD, Nov. 23, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.14 ft, Mar. 9; minimum, 1.91 ft below NGVD, Jan. 1.

GAGE HEIGHT, FEET, PERIOD MAY TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.77	.59	.61
2	---	---	---	---	---	---	---	---	---	1.09	.75	.77
3	---	---	---	---	---	---	---	---	.97	.94	.92	.95
4	---	---	---	---	---	---	---	---	.82	.92	1.15	.87
5	---	---	---	---	---	---	---	---	.57	1.03	1.25	.05
6	---	---	---	---	---	---	---	---	.58	.83	.96	.27
7	---	---	---	---	---	---	---	---	.46	.61	.69	.48
8	---	---	---	---	---	---	---	---	-.02	.42	.32	.81
9	---	---	---	---	---	---	---	---	.18	.51	.31	.89
10	---	---	---	---	---	---	---	---	.20	.76	.31	.91
11	---	---	---	---	---	---	---	---	.26	.61	.29	1.13
12	---	---	---	---	---	---	---	---	.64	.51	.45	.99
13	---	---	---	---	---	---	---	---	1.26	.41	.49	1.05
14	---	---	---	---	---	---	---	---	1.30	.46	.79	1.00
15	---	---	---	---	---	---	---	---	1.43	.63	.99	1.07
16	---	---	---	---	---	---	---	---	.82	.63	.91	1.17
17	---	---	---	---	---	---	---	---	.86	.64	.88	1.08
18	---	---	---	---	---	---	---	---	1.10	.82	.88	.97
19	---	---	---	---	---	---	---	---	1.01	1.01	.92	.81
20	---	---	---	---	---	---	---	---	.58	1.07	.97	.81
21	---	---	---	---	---	---	---	---	.62	.93	1.21	.77
22	---	---	---	---	---	---	---	---	.59	.79	.99	.59
23	---	---	---	---	---	---	---	.30	.67	.84	.71	.66
24	---	---	---	---	---	---	---	.57	.66	.84	.60	.83
25	---	---	---	---	---	---	---	.92	.55	.70	.22	1.15
26	---	---	---	---	---	---	---	.96	.52	.67	.07	1.35
27	---	---	---	---	---	---	---	.72	.48	.83	.40	1.19
28	---	---	---	---	---	---	---	.11	.48	.67	.77	1.50
29	---	---	---	---	---	---	---	.70	.69	.91	.76	
30	---	---	---	---	---	---	---	.67	.75	.78	.66	
31	---	---	---	---	---	---	---	---	---	.80	.78	---
MEAN	---	---	---	---	---	---	---	---	---	.75	.72	.87
MAX	---	---	---	---	---	---	---	---	---	1.09	1.25	1.50
MIN	---	---	---	---	---	---	---	---	---	.41	.07	.05

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

284254082362300 CHASSAHOWITZKA RIVER ABOVE JOHNSON CREEK NEAR CHASSAHOWITZKA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	1.65	1.02	-1.18	.24	.99	.88	1.10	.89	---	---	---
2	.76	1.71	.22	-.78	.53	1.07	.73	.81	1.00	---	---	---
3	.20	.67	.32	-.50	1.82	.76	.88	.62	.75	---	---	---
4	.37	.17	.66	-.34	2.67	.24	1.35	.64	.94	---	---	---
5	.22	.08	.21	-.17	1.09	.69	.37	.70	.97	---	---	---
6	.05	.29	-.17	-.10	.08	.71	.02	.52	1.02	---	---	---
7	.14	.84	-.32	.40	.42	.86	.55	.94	.75	---	---	---
8	.23	.29	.09	.79	.30	1.65	1.18	1.83	.24	---	---	---
9	.27	.39	.66	.28	.05	2.14	1.66	1.45	.65	---	---	---
10	.18	.64	.85	-.22	.21	.34	1.09	1.83	.75	---	---	---
11	.10	.61	.61	-.45	1.02	-.35	-.38	1.52	.73	---	---	---
12	.45	.90	-.03	-.31	.85	-.66	-.22	.87	.72	---	---	---
13	.74	1.93	.20	.14	.49	-.40	.35	.69	.96	---	---	---
14	.79	1.67	.07	.12	.18	-.23	.86	.74	1.08	---	---	---
15	.86	.72	-.15	.55	-.16	-.02	.99	.80	1.34	---	---	---
16	.83	.07	-.58	1.21	1.24	.22	1.08	.84	1.15	---	---	---
17	.67	-.62	-.21	-.13	1.67	.54	1.21	1.08	.78	---	---	---
18	.86	-.06	-.03	-.18	.75	.93	.80	1.18	.59	---	---	1.53
19	.77	.13	-.07	.57	.25	1.18	.94	.89	.51	---	---	1.65
20	.39	.19	-.16	-.27	.25	1.41	.48	.60	.46	---	---	1.53
21	.64	.53	.28	-.27	-.07	1.26	.40	.63	.62	---	---	1.41
22	.90	.42	.60	.37	.49	.29	.63	.74	.62	---	---	1.31
23	.58	.22	.30	.74	1.93	-.01	.69	1.01	.59	---	---	1.14
24	1.04	-.75	.77	.52	.31	.05	.28	1.05	.77	---	---	.42
25	1.34	-.77	.89	---	.12	.15	.40	1.06	.82	---	---	-.04
26	1.54	.08	.41	---	.60	.07	.65	1.13	.51	---	---	.68
27	2.04	.24	1.13	---	1.39	.37	.88	1.16	---	---	---	1.66
28	.30	.49	-.30	---	1.30	.66	.81	1.03	---	---	---	1.48
29	.35	.76	.94	---	---	.75	.69	.89	---	---	---	1.46
30	.49	1.32	.46	.54	---	.53	1.02	.72	---	---	---	2.46
31	1.19	---	.06	.63	---	.72	---	.68	---	---	---	---
MEAN	.64	.49	.28	---	.72	.55	.71	.96	---	---	---	---
MAX	2.04	1.93	1.13	---	2.67	2.14	1.66	1.83	---	---	---	---
MIN	.05	-.77	-.58	---	-.16	-.66	-.38	.52	---	---	---	-

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310675 HIDDEN RIVER NEAR HOMOSASSA, FL

LOCATION.--Lat 28°45'59", long 82°35'20", in NE¹/₄ sec. 10, T.20 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on right bank, on Burnt Bridge Road, and 2.0 mi southeast of Homosassa.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1997 to current year (discharge measurements only).

GAGE.--Nonrecording gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 20 ft³/s, Mar. 17, 1998; minimum measured, 1.9 ft³/s, Sept. 11, 1997.

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, PERIOD JANUARY TO SEPTEMBER 1997

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
JAN				
16...	1600	1.80	7.0	2160
MAR				
25...	1515	2.05	6.0	2160
APR				
16...	1242	1.92	5.8	2270
JUN				
03...	0818	2.12	4.8	2020
SEP				
11...	1345	2.12	1.9	--

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
NOV				
06...	1032	1.97	11	1660
JAN				
20...	1450	3.17	17	1570
MAR				
17...	1355	3.25	20	1150
MAY				
12...	1353	3.07	15	--
JUN				
16...	1524	2.63	9.7	2720

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

263

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 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	65	75	119	111	100	105	98	98	93	101	92
2	79	62	93	120	109	100	107	102	96	99	104	94
3	88	79	93	112	88	106	107	106	99	105	106	63
4	87	91	88	108	66	114	98	107	96	104	102	78
5	88	97	92	106	87	110	107	105	95	103	101	91
6	93	94	103	105	109	107	120	107	94	99	100	96
7	92	83	105	97	107	106	114	103	97	97	98	94
8	91	94	102	87	109	93	101	88	107	94	96	90
9	89	93	89	96	111	80	92	86	104	93	99	88
10	89	87	85	106	111	104	95	86	98	87	101	96
11	93	87	86	113	101	123	121	85	98	89	99	99
12	88	84	96	113	96	130	126	98	99	94	97	98
13	82	65	96	105	105	130	117	102	95	98	99	97
14	79	63	95	106	111	125	108	103	93	96	101	99
15	78	78	103	102	120	121	102	102	89	92	102	99
16	78	92	110	87	96	119	101	101	90	88	103	97
17	80	106	107	107	85	113	98	97	95	93	102	88
18	77	103	102	114	99	106	104	94	100	94	101	85
19	78	96	103	103	112	100	103	98	101	97	101	83
20	86	97	106	114	114	96	109	103	101	98	102	84
21	e80	92	101	117	119	95	113	102	100	98	106	86
22	79	92	94	108	113	112	107	100	99	97	103	88
23	e78	94	97	97	84	119	105	96	100	94	99	91
24	e71	106	91	98	103	118	112	94	98	95	98	102
25	69	115	81	117	116	117	112	94	95	96	99	114
26	68	102	92	118	110	118	109	93	101	99	94	112
27	56	94	84	99	97	116	103	92	99	99	92	82
28	79	91	102	97	94	111	103	93	99	97	94	87
29	88	85	92	108	---	107	105	96	102	97	93	90
30	87	75	89	105	---	111	101	99	99	99	97	74
31	76	---	100	104	---	110	---	101	---	99	93	---
TOTAL	2527	2662	2952	3288	2883	3417	3205	3031	2937	2983	3083	2737
MEAN	81.5	88.7	95.2	106	103	110	107	97.8	97.9	96.2	99.5	91.2
MAX	93	115	110	120	120	130	126	107	107	105	106	114
MIN	56	62	75	87	66	80	92	85	89	87	92	63

e Estimated

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310688 SOUTHEAST FORK HOMOSASSA SPRINGS AT HOMOSASSA SPRINGS, FL

LOCATION.--Lat 28°47'51", long 82°35'23", in NE 1/4 sec.28, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, near confluence with Homosassa Spring outflow, and 1.0 mi southwest of town of Homosassa Springs.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1932-33, 1936, 1946, 1956, 1963-86, February 1997 to September 1998 (miscellaneous discharge measurements), discontinued.

GAGE.--Reference point.

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, PERIOD FEBRUARY TO SEPTEMBER 1997

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
FEB				
04...	1000	.04	60	485
04...	1100	.00	60	484
04...	1200	.02	48	482
JUN				
03...	0700	1.17	51	582
03...	0800	1.10	52	570
03...	0858	1.03	53	565
03...	1000	.94	54	556
03...	1100	.90	47	558
03...	1158	1.02	37	580

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
NOV				
04...	0710	1.07	77	700
04...	0759	.98	79	697
04...	0859	.89	81	697
04...	0959	.78	81	695
04...	1058	.66	85	694
04...	1159	.53	84	693
04...	1259	.45	84	697
04...	1359	.34	87	699
04...	1500	.24	82	722
04...	1600	.15	81	707
04...	1701	.06	81	705
FEB				
24...	1000	1.27	99	600
24...	1100	1.15	105	600
24...	1200	1.06	108	640
24...	1300	.98	106	--
24...	1400	.85	106	670
24...	1500	.75	108	--
24...	1600	.67	108	680
24...	1700	.62	103	630
JUN				
17...	0701	.85	74	410
17...	0755	.83	61	411
17...	0900	1.00	53	411
17...	0958	1.17	47	--
17...	1100	1.33	48	--
17...	1200	1.41	67	--
17...	1300	1.34	71	--
17...	1400	1.27	73	--
17...	1500	1.15	75	--
17...	1601	1.07	78	--
17...	1702	.95	83	--
17...	1800	.81	83	--

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

265

02310690 HALLS RIVER NEAR HOMOSASSA, FL

LOCATION.--Lat 28°48'04", long 82°36'10", in NE¹/₄ sec.29, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on bridge on County Road 490A, and 1.7 mi northeast of Homosassa.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1997 to current year (discharge measurements only).

GAGE.--Nonrecording gage. Datum of gage has not been determined.

REMARKS.--Discharge affected by tide and aquifer levels.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 670 ft³/s, Feb. 24, 1998; minimum measured, 86 ft³/s, June 3, 1997.

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, PERIOD JUNE TO SEPTEMBER 1997

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
JUN				
03...	0700	1.10	148	3300
03...	0800	.96	166	3290
03...	0900	.89	191	3340
03...	1000	.79	191	3470
03...	1100	.77	134	3500
03...	1200	.88	86	3420

GAGE HEIGHT, DISCHARGE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
NOV				
04...	0700	1.10	148	2840
04...	0800	.94	183	2920
04...	0900	.85	219	3330
04...	1000	.74	244	3500
04...	1101	.61	248	3700
04...	1200	.50	261	3750
04...	1300	.39	246	3840
04...	1400	.30	240	3900
04...	1500	.20	223	3970
04...	1600	.10	212	4060
04...	1700	.04	193	4170
FEB				
24...	1000	1.25	670	4860
24...	1100	1.09	658	4790
24...	1200	1.01	629	4800
24...	1300	.91	602	4700
24...	1400	.81	549	4690
24...	1500	.73	525	4730
24...	1600	.66	442	4720
24...	1700	.61	413	4720

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310700 HOMOSASSA RIVER AT HOMOSASSA, FL

LOCATION.--Lat 28°47'06", long 82°37'05", in NE¹/₄ sec.31, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on left bank, on private dock, 0.3 mi northwest of Homosassa, and 5.3 mi upstream from mouth.

GAGE HEIGHT RECORDS

PERIOD OF RECORD.--January 1964 to September 1965 (gage heights and periodic discharge measurements only); October 1965 to September 1969 (periodic discharge measurements and maximum and minimum gage heights only); October 1969 to September 1976 (maximum and minimum gage heights only); October 1976 to September 1978 (maximum and minimum elevations only); July 1997 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 6.53 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to July 1997, at site 500 ft upstream.

REMARKS.--Affected by tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 780 ft³/s, Oct. 8, 1965; maximum gage height, 4.84 ft, Sept. 10, 1964; minimum discharge measured, 149 ft³/s, Apr. 12, 1967; minimum gage height, 1.73 ft below NGVD, Sept. 9, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.10 ft, Sept. 3; minimum, unknown.

GAGE HEIGHT, FEET, PERIOD JULY TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	1.23	1.19	1.18
2	---	---	---	---	---	---	---	---	---	1.54	1.21	1.25
3	---	---	---	---	---	---	---	---	---	1.43	1.43	1.45
4	---	---	---	---	---	---	---	---	---	1.40	1.62	1.45
5	---	---	---	---	---	---	---	---	---	1.55	1.74	.77
6	---	---	---	---	---	---	---	---	---	1.40	1.51	.78
7	---	---	---	---	---	---	---	---	---	1.20	1.26	.96
8	---	---	---	---	---	---	---	---	---	1.00	.91	1.27
9	---	---	---	---	---	---	---	---	---	1.00	.83	1.38
10	---	---	---	---	---	---	---	---	---	1.24	.85	1.42
11	---	---	---	---	---	---	---	---	---	1.11	.77	1.65
12	---	---	---	---	---	---	---	---	---	1.06	.93	1.53
13	---	---	---	---	---	---	---	---	---	.92	1.02	1.58
14	---	---	---	---	---	---	---	---	---	.99	1.27	1.52
15	---	---	---	---	---	---	---	---	---	1.13	1.47	1.57
16	---	---	---	---	---	---	---	---	---	1.16	1.43	1.69
17	---	---	---	---	---	---	---	---	---	1.14	1.39	1.66
18	---	---	---	---	---	---	---	---	---	1.29	1.43	1.60
19	---	---	---	---	---	---	---	---	---	1.51	1.46	1.42
20	---	---	---	---	---	---	---	---	---	1.64	1.55	1.40
21	---	---	---	---	---	---	---	---	---	1.53	1.69	1.35
22	---	---	---	---	---	---	---	---	---	1.38	1.56	1.16
23	---	---	---	---	---	---	---	---	---	1.38	1.30	1.16
24	---	---	---	---	---	---	---	---	---	1.41	1.13	1.27
25	---	---	---	---	---	---	---	---	---	1.28	.81	1.58
26	---	---	---	---	---	---	---	---	---	1.24	.62	1.91
27	---	---	---	---	---	---	---	---	---	1.40	.85	1.70
28	---	---	---	---	---	---	---	---	---	1.26	1.23	1.93
29	---	---	---	---	---	---	---	---	---	1.27	1.40	1.46
30	---	---	---	---	---	---	---	---	---	1.28	1.31	1.21
31	---	---	---	---	---	---	---	---	---	1.31	1.28	---
MEAN	---	---	---	---	---	---	---	---	---	1.28	1.24	1.41
MAX	---	---	---	---	---	---	---	---	---	1.64	1.74	1.93
MIN	---	---	---	---	---	---	---	---	---	.92	.62	.77

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310700 HOMOSASSA RIVER AT HOMOSASSA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.20	2.11	1.72	---	.83	1.63	1.35	1.58	1.33	1.38	.96	1.43
2	1.28	2.27	.86	---	1.00	1.65	1.26	1.37	1.44	1.08	.83	1.35
3	.84	1.44	.86	---	2.05	1.35	1.29	1.15	1.26	.77	.76	3.05
4	.90	.84	1.14	.46	3.01	.92	1.72	1.11	1.41	.79	.99	2.11
5	.84	.56	.92	.57	1.99	1.15	1.18	1.20	1.44	.85	1.05	1.51
6	.61	.74	.33	.66	.91	1.30	.57	1.08	1.53	1.07	1.08	1.31
7	.65	1.30	---	1.10	1.03	1.39	.95	1.28	1.36	1.19	1.22	1.43
8	.71	.78	.44	1.66	.92	2.04	1.55	2.03	.83	1.28	1.27	1.64
9	.83	.85	1.08	1.24	.86	2.62	2.01	2.04	1.04	1.37	1.11	1.72
10	.78	1.13	1.28	.78	.83	1.41	1.79	2.08	1.28	1.66	1.02	1.28
11	.60	1.15	1.21	.50	1.37	.45	.46	2.10	1.27	1.55	1.16	1.16
12	.90	1.32	.71	.52	1.61	---	.27	1.46	1.25	1.27	1.23	1.20
13	1.20	2.27	.75	.94	1.17	---	.73	1.25	1.41	1.10	1.12	1.27
14	1.34	2.35	.82	.92	.87	.39	1.20	1.20	1.53	1.20	.99	1.17
15	1.40	1.61	.44	1.19	.45	.61	1.47	1.29	1.72	1.44	.97	1.15
16	1.40	.84	---	1.87	1.68	.73	1.50	1.30	1.63	1.60	.92	1.32
17	1.27	---	---	.92	2.19	1.00	1.65	1.50	1.36	1.37	.96	1.75
18	1.44	---	.58	.58	1.51	1.32	1.33	1.63	1.14	1.31	1.02	1.89
19	1.37	.68	.52	1.15	.93	1.64	1.39	1.44	1.08	1.17	1.01	1.99
20	.97	.65	.39	.62	.85	1.83	1.06	1.16	1.07	1.14	.95	1.98
21	1.11	.90	.71	.46	.62	1.82	.90	1.19	1.16	1.16	.77	1.87
22	1.35	.91	1.05	.97	.96	1.01	1.16	1.29	1.16	1.24	.93	1.76
23	1.10	.80	.89	1.49	2.37	.65	1.24	1.48	1.12	1.36	1.09	1.63
24	1.32	---	1.21	1.44	1.43	.69	.91	1.58	1.22	1.31	1.15	1.05
25	1.83	---	1.68	.48	.82	.79	.93	1.57	1.36	1.25	1.12	.47
26	1.90	.41	1.19	.46	1.11	.74	1.10	1.62	1.05	1.13	1.33	.72
27	2.48	.79	1.58	1.43	1.79	.87	1.35	1.70	1.15	1.14	1.46	2.11
28	1.34	.94	.68	1.47	1.92	1.12	1.36	1.60	1.16	1.20	1.32	1.89
29	.91	1.26	1.26	.97	---	1.28	1.23	1.48	.99	1.20	1.39	1.76
30	1.00	1.75	1.33	1.12	---	1.08	1.46	1.31	1.12	1.11	1.20	2.60
31	1.57	---	.79	1.19	---	1.16	---	1.22	---	1.08	1.38	---
MEAN	1.18	---	---	---	1.32	---	1.21	1.46	1.26	1.22	1.09	1.59
MAX	2.48	---	---	---	3.01	---	2.01	2.10	1.72	1.66	1.46	3.05
MIN	.60	---	---	---	.45	---	.27	1.08	.83	.77	.76	.47

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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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 1998

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 intersection 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	1983-98	3-21-98	10.20	620
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 Highway 66, 7.1 mi west of Crewsville, and 14.5 mi upstream from mouth.	142	1981-98	3-21-98	21.34	6,840
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.	39	1983-98	3-21-98	13.29	1,190

See footnotes at end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1998

Station Number	Station Name	Location	Drainage area (mi ²)	Period of record	Date	Annual Gage height (feet)	Maximum Discharge (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	1981-98	3-20-98	60.24	6,080
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	1981-98	3-22-98	18.94	6,080
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	1960-98	3-21-98	5.28	583
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	1982-98	12-27-97	14.40	561

† Not determined

a Approximately

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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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 1998

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.	†	1935-97	04-09-98 06-04-98 08-24-98	115 73 76
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	1956-97	10-20-97 12-09-97 01-29-98 04-03-98 04-15-98 07-17-98 08-20-98 09-16-98	8.7 40 32 29 11 47 43 11
Trout Creek	Hillsborough River	Lat 28°05'52", long 82°21'30", in NE ¹ / ₄ sec.36, T.27 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, near left bank, 80 ft upstream from wooden bridge, 1.1 mi upstream from mouth, 2.6 mi downstream from State Highway 581, and 4.9 mi northeast of Temple Terrace (discontinued).	a31	1977-78 1980-97	12-04-97 01-21-98 04-06-98 08-19-98	71 41 10 14
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.	†	1974 1996-97	10-06-97 12-05-97 12-19-97 02-04-98 04-07-98 05-20-98 06-25-98 07-21-98 08-18-98	2.2 15 35 18 12 0.80 0.01 3.4 0.28
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	10-17-97 12-05-97 04-07-98 04-09-98 09-25-98	91 116 46 28 135
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.	†	1997	10-07-97 12-06-97 12-19-97 02-05-98 04-08-98 05-21-98 07-21-98	2.2 11 19 8.8 6.0 0.71 3.8

See footnotes at end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1998

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	411 (revised)	1974, 1979 1980-97	10-15-97	62
		SE $\frac{1}{4}$ sec.34, T.30 S., R.25 E.,			12-23-97	1,720
		Polk County, Hydrologic Unit			02-06-98	1,090
		03100101, near center of span on			04-02-98	1,510
		downstream side of bridge on State			06-03-98	26
		Highway 640, 1.6 mi east of U.S.			07-20-98	224
		Highway 17 in Homeland, and 97 mi upstream from mouth.			08-14-98	33

a Approximately

† Undetermined

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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DATE	TIME	ELEV- ATION ABOVE NGVD (FEET) (72020)	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)
02300200 SOUTH FORK LITTLE MANATEE RIVER NR DUETTE, FLA. (LAT 27 35 25N LONG 082 10 57W)										
APR 1998										
30...	1330	--	.19	13	380	7.10	21.5	50	6.0	--
JUN										
11...	1033	--	.99	18	540	7.80	24.0	--	3.6	--
AUG										
19...	1150	--	.03	--	371	6.10	25.0	--	5.5	--
SEP										
21...	1045	--	2.73	148	152	4.80	23.5	240	6.5	--
02301750 DELANEY CREEK NEAR TAMPA, FL (LAT 27 55 32N LONG 082 21 52W)										
OCT 1997										
02...	1115	--	3.42	--	--	--	--	--	--	--
02303200 PEMBERTON CREEK NR DOVER, FLA. (LAT 28 01 34N LONG 082 14 12W)										
OCT 1997										
02...	1530	--	54.00	--	--	--	--	--	--	--
APR 1998										
15...	0915	--	52.07	11	263	7.00	18.0	--	8.5	--
JUN										
11...	0800	--	51.92	8.5	311	7.30	25.0	--	6.1	--
AUG										
19...	1025	--	52.11	--	184	6.00	25.0	--	7.2	--
SEP										
16...	0815	--	52.07	11	293	7.20	23.0	--	7.2	--
02303205 BAKER CREEK AT MCINTOSH ROAD NEAR ANTIOCH, FL (LAT 28 01 41N LONG 082 14 44W)										
OCT 1997										
02...	1530	--	4.67	--	--	--	--	--	--	--
02307479 LAKE TARPON NR TARPON SPRINGS, FLA. (LAT 28 07 34N LONG 082 44 08W)										
NOV 1997										
17...	0855	3.25	--	--	873	8.00	17.0	--	9.0	--
APR 1998										
14...	0930	2.87	--	--	419	7.60	21.0	--	6.8	--
JUN										
01...	0915	2.62	--	--	484	8.00	27.0	--	5.2	--
AUG										
03...	0822	2.85	--	--	515	8.10	28.0	--	4.5	--
02307498 LAKE TARPON CANAL AT S-551, NR OLDSMAR, FLA. (LAT 28 03 12N LONG 082 42 40W)										
APR 1998										
14...	0840	--	2.80	--	594	7.30	20.5	120	5.3	--
SEP										
14...	0800	--	2.87	--	357	7.30	25.0	200	7.6	--
02309494 HEALTH SPRING NR OZONA, FLA. (LAT 28 06 22N LONG 082 46 21W)										
SEP 1998										
01...	0830	--	--	--	4980	7.30	25.0	--	--	.3
29...	0925	--	--	--	6020	7.20	24.5	--	--	.5

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

DATE	COLI-FORM, TOTAL, IMMEDIATE (COLS. PER 100 ML) (31501)	COLI-FORM, FECAL, UM-MF (COLS. / 100 ML) (31625)	STREP-TOCOCCHI, KF AGAR (COLS. PER 100 ML) (31673)	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)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
02300200 SOUTH FORK LITTLE MANATEE RIVER NR DUETTE, FLA. (LAT 27 35 25N LONG 082 10 57W)										
APR 1998										
30...	--	--	--	42	15	9.0	2.3	61	12	.59
JUN										
11...	--	--	--	--	--	--	--	--	--	--
AUG										
19...	--	--	--	--	--	--	--	--	--	--
SEP										
21...	--	--	--	12	5.2	4.3	6.3	30	8.0	.20
02307479 LAKE TARPON NR TARPON SPRINGS, FLA. (LAT 28 07 34N LONG 082 44 08W)										
NOV 1997										
17...	--	--	--	--	--	--	--	--	190	--
APR 1998										
14...	--	--	--	--	--	--	--	--	85	--
JUN										
01...	--	--	--	--	--	--	--	--	96	--
AUG										
03...	--	--	--	--	--	--	--	--	110	--
02307498 LAKE TARPON CANAL AT S-551, NR OLDSMAR, FLA. (LAT 28 03 12N LONG 082 42 40W)										
APR 1998										
14...	--	--	--	34	7.1	61	2.7	20	130	.15
SEP										
14...	--	--	--	25	4.3	36	2.8	13	69	.15
02309494 HEALTH SPRING NR OZONA, FLA. (LAT 28 06 22N LONG 082 46 21W)										
SEP 1998										
01...	450	K1	K25	--	--	--	--	--	--	--
29...	140	K8	K1	--	--	--	--	--	--	--

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRITE (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 (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)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)
02300200 SOUTH FORK LITTLE MANATEE RIVER NR DUETTE, FLA. (LAT 27 35 25N LONG 082 10 57W)										
APR 1998										
30...	14	242	--	<.01	.12	<.01	.31	.21	.18	--
JUN										
11...	--	--	--	.12	1.5	.18	1.1	.51	.46	--
AUG										
19...	--	--	--	<.01	.34	.04	.83	.73	.67	--
SEP										
21...	4.3	140	--	.02	.44	.07	1.0	.66	.60	--
02301750 DELANEY CREEK NEAR TAMPA, FL (LAT 27 55 32N LONG 082 21 52W)										
OCT 1997										
02...	--	--	9	<.01	.04	.12	1.3	.66	.38	--
02303200 PEMBERTON CREEK NR DOVER, FLA. (LAT 28 01 34N LONG 082 14 12W)										
OCT 1997										
02...	--	--	25	.02	.17	.37	2.1	1.6	.73	--
APR 1998										
15...	--	--	--	<.01	.53	.03	.57	.46	.41	--
JUN										
11...	--	--	--	.02	.44	.06	.74	.57	.47	--
AUG										
19...	--	--	--	.01	.20	.05	1.1	.74	.52	--
SEP										
16...	--	--	--	.01	.38	.03	1.0	.58	.47	--
02303205 BAKER CREEK AT MCINTOSH ROAD NEAR ANTIOCH, FL (LAT 28 01 41N LONG 082 14 44W)										
OCT 1997										
02...	--	--	29	.01	.18	.36	2.1	1.3	.72	--
02307479 LAKE TARPON NR TARPON SPRINGS, FLA. (LAT 28 07 34N LONG 082 44 08W)										
NOV 1997										
17...	--	--	--	<.01	<.02	.04	.95	.05	<.01	--
APR 1998										
14...	--	--	--	<.01	<.02	.02	.62	.03	<.01	--
JUN										
01...	--	--	--	<.01	<.02	.06	.72	.03	<.01	--
AUG										
03...	--	--	--	<.01	<.02	.01	.90	.05	.02	--
02307498 LAKE TARPON CANAL AT S-551, NR OLDSMAR, FLA. (LAT 28 03 12N LONG 082 42 40W)										
APR 1998										
14...	3.0	364	--	<.01	<.02	.03	.54	.03	<.01	--
SEP										
14...	4.6	242	--	.01	<.02	.05	.94	.05	.03	--
02309494 HEALTH SPRING NR OZONA, FLA. (LAT 28 06 22N LONG 082 46 21W)										
SEP 1998										
01...	--	--	--	.03	7.2	.04	<.20	.09	.10	6.2
29...	--	--	--	<.01	6.2	.05	.23	.10	.10	<3.0

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

DATE	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, TOTAL DIS- SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL ERABLE (UG/L AS ZN) (01092)
02300200	SOUTH FORK LITTLE MANATEE RIVER NR DUETTE, FLA. (LAT 27 35 25N LONG 082 10 57W)									
APR 1998										
30...	--	--	--	--	--	--	--	--	2700	--
JUN										
11...	--	--	--	--	--	--	--	--	--	--
AUG										
19...	--	--	--	--	--	--	--	--	--	--
SEP										
21...	--	--	--	--	--	--	--	--	290	--
02307498	LAKE TARPON CANAL AT S-551, NR OLDSMAR, FLA. (LAT 28 03 12N LONG 082 42 40W)									
APR 1998										
14...	--	--	--	--	--	--	--	--	150	--
SEP										
14...	--	--	--	--	--	--	--	--	110	--
02309494	HEALTH SPRING NR OZONA, FLA. (LAT 28 06 22N LONG 082 46 21W)									
SEP 1998										
01...	2.1	<1.0	<1.0	<1.0	11	<1	<.1	4.0	--	1.2
29...	2.3	<1.0	<1.0	<1.0	51	<1	<.1	2.8	--	16

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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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)
FIELD DETERMINATIONS										
02297330 PEACE RIVER AT FT. OGDEN, FL (LAT 27 05 17N LONG 081 59 39W)										
OCT 1997										
28...	1551	.30	2.05	436	7.5	24.9	1910	1.4	--	6.0
28...	1552	.50	--	433	7.5	24.9	--	--	--	6.0
28...	1553	1.0	--	433	7.4	24.8	--	--	--	5.9
28...	1554	1.5	--	433	7.4	24.5	--	--	--	5.8
28...	1555	1.9	--	439	7.4	24.3	--	--	--	5.8
29...	1130	.30	1.25	456	7.5	22.8	--	--	--	6.7
29...	1131	.50	--	454	7.4	22.4	--	--	--	6.6
29...	1132	1.0	--	455	7.4	22.2	--	--	--	6.6
NOV										
19...	1635	.30	3.05	106	6.4	19.5	288	1.0	--	5.8
19...	1636	.50	--	106	6.4	19.5	--	--	--	5.8
19...	1637	1.0	--	110	6.4	19.5	--	--	--	5.8
19...	1638	1.5	--	104	6.4	19.5	--	--	--	5.8
19...	1639	2.0	--	106	6.4	19.5	--	--	--	5.8
19...	1640	2.5	--	108	6.4	19.5	--	--	--	5.8
19...	1641	2.9	--	110	6.4	19.5	--	--	--	5.8
20...	1126	.30	2.65	118	6.6	19.1	--	--	--	5.8
20...	1127	.50	--	116	6.6	19.1	--	--	--	5.8
20...	1128	1.0	--	120	6.6	19.1	--	--	--	5.8
20...	1129	1.5	--	118	6.6	19.1	--	--	--	5.8
20...	1130	2.0	--	117	6.6	19.1	--	--	--	5.8
20...	1131	2.5	--	117	6.6	19.1	--	--	--	5.8
DEC										
16...	1614	.30	--	149	6.8	16.9	1740	.65	--	6.5
16...	1616	.50	--	143	6.7	17.0	--	--	--	6.5
16...	1617	1.0	--	145	6.8	17.0	--	--	--	6.7
16...	1622	2.0	--	153	6.8	17.0	--	--	--	6.4
16...	1623	2.5	--	155	6.8	17.0	--	--	--	6.6
17...	1159	.30	2.65	146	6.6	16.3	--	--	--	6.3
17...	1200	.50	--	146	6.6	16.3	--	--	--	6.3
17...	1201	1.0	--	145	6.6	16.3	--	--	--	6.3
17...	1202	1.5	--	145	6.6	16.3	--	--	--	6.3
17...	1203	2.0	--	145	6.6	16.2	--	--	--	6.4
17...	1204	2.5	--	145	6.6	16.3	--	--	--	6.3
JAN 1998										
21...	1646	.30	3.35	219	7.3	18.2	363	.70	--	7.3
21...	1647	.50	--	217	7.2	18.2	--	--	--	7.3
21...	1648	1.0	--	213	7.1	18.2	--	--	--	7.3
21...	1649	1.5	--	222	7.1	18.2	--	--	--	7.3
21...	1650	2.0	--	212	7.1	18.2	--	--	--	7.3
21...	1651	2.5	--	218	7.1	18.2	--	--	--	7.3
21...	1652	3.0	--	222	7.1	18.2	--	--	--	7.3
22...	1256	.30	2.85	223	7.2	18.4	--	--	--	7.2
22...	1257	.50	--	222	7.1	18.3	--	--	--	7.2
22...	1258	1.0	--	224	7.1	18.3	--	--	--	7.3
22...	1259	1.5	--	217	7.1	18.3	--	--	--	7.3
22...	1300	2.0	--	215	7.1	18.3	--	--	--	7.3
22...	1301	2.5	--	222	7.1	18.3	--	--	--	7.2
FEB										
24...	1741	.30	2.45	136	6.8	20.2	1330	.75	--	5.3
24...	1742	.50	--	134	6.8	20.2	--	--	--	5.3
24...	1743	1.0	--	139	6.8	20.2	--	--	--	5.3
24...	1744	1.5	--	133	6.8	20.2	--	--	--	5.3
24...	1746	2.0	--	139	6.8	20.2	--	--	--	5.3
25...	1317	.30	2.85	139	6.7	19.3	--	--	--	5.9
25...	1318	.50	--	141	6.7	19.3	--	--	--	5.8
25...	1319	1.0	--	140	6.7	19.3	--	--	--	5.9
25...	1320	1.5	--	139	6.7	19.3	--	--	--	5.8
25...	1321	2.0	--	139	6.7	19.3	--	--	--	5.9
25...	1322	2.5	--	141	6.7	19.3	--	--	--	5.8
MAR										
24...	1722	.30	--	91	6.5	18.5	1310	.90	--	6.5
24...	1723	.80	--	89	6.5	18.4	--	--	--	6.5
24...	1724	1.2	--	86	6.5	18.4	--	--	--	6.6
24...	1725	1.4	--	89	6.5	18.4	--	--	--	6.5
24...	1726	2.9	--	89	6.5	18.4	--	--	--	6.5
25...	1247	.30	--	86	6.5	18.5	--	--	--	6.9
25...	1248	.50	--	89	6.5	18.5	--	--	--	6.8
25...	1249	1.0	--	88	6.5	18.5	--	--	--	6.8
25...	1250	1.5	--	83	6.5	18.5	--	--	--	6.8
25...	1251	2.0	--	83	6.5	18.5	--	--	--	6.7
25...	1252	2.5	--	83	6.5	18.5	--	--	--	6.7

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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)
02297330 PEACE RIVER AT FT. OGDEN, FL (LAT 27 05 17N LONG 081 59 39W)										
APR										
21...	1611	.30	2.15	251	7.5	25.0	413	1.0	--	7.1
21...	1612	.50	--	265	7.4	25.1	--	--	--	7.2
21...	1613	1.0	--	269	7.4	25.0	--	--	--	7.2
21...	1614	1.5	--	271	7.4	25.0	--	--	--	7.2
21...	1616	2.0	--	267	7.4	25.0	--	--	--	7.2
22...	1010	.30	1.95	283	7.4	23.6	--	--	--	7.0
22...	1011	.50	--	284	7.3	23.6	--	--	--	6.9
22...	1012	1.0	--	275	7.3	23.5	--	--	--	6.9
22...	1013	1.5	--	286	7.3	23.5	--	--	--	6.9
22...	1014	1.8	--	288	7.3	23.5	--	--	--	6.9
MAY										
19...	1553	.30	2.75	343	8.9	29.5	345	1.5	--	--
19...	1554	.50	--	349	8.9	29.5	--	--	--	--
19...	1555	1.0	--	344	8.9	29.1	--	--	--	--
19...	1556	1.5	--	352	8.9	28.8	--	--	--	--
19...	1557	2.0	--	348	8.9	28.8	--	--	--	--
19...	1558	2.5	--	353	8.9	28.6	--	--	--	--
20...	1219	.30	2.65	356	8.8	29.1	--	--	--	--
20...	1220	.50	--	359	8.8	29.1	--	--	--	--
20...	1221	1.0	--	358	8.8	29.1	--	--	--	--
20...	1222	1.5	--	358	8.7	28.6	--	--	--	--
20...	1223	2.0	--	355	8.7	28.6	--	--	--	--
20...	1224	2.5	--	362	8.6	28.6	--	--	--	--
JUN										
24...	1541	.30	1.55	498	7.5	32.5	460	--	--	6.9
24...	1542	.50	--	498	7.5	32.5	--	--	--	6.7
24...	1543	1.0	--	497	7.4	32.4	--	--	--	6.6
24...	1544	1.4	--	496	7.4	32.4	--	--	5.2	6.5
25...	1055	.30	2.15	496	7.4	31.0	--	--	--	5.2
25...	1056	.50	--	491	7.4	30.9	--	--	--	5.1
25...	1057	1.0	--	491	7.4	30.8	--	--	--	5.1
25...	1058	1.5	--	490	7.4	30.8	--	--	--	5.0
25...	1059	2.0	--	495	7.3	30.6	--	--	--	4.7
JUL 1998										
21...	1557	.30	2.15	483	7.3	28.6	191	1.3	--	5.8
21...	1558	.50	--	481	7.3	28.6	--	--	--	5.8
21...	1559	1.0	--	481	7.3	28.6	--	--	--	5.8
21...	1601	1.5	--	481	7.3	28.5	--	--	--	5.7
21...	1602	2.0	--	482	7.3	28.5	--	--	--	5.7
22...	1159	.30	2.15	480	7.3	28.5	--	--	--	5.4
22...	1200	.50	--	480	7.3	28.4	--	--	--	5.4
22...	1201	1.0	--	480	7.3	28.4	--	--	--	5.3
22...	1202	1.5	--	478	7.3	28.4	--	--	--	5.3
22...	1203	2.0	--	480	7.3	28.1	--	--	--	5.3
AUG										
19...	1738	.30	2.45	361	7.6	30.2	89.5	1.1	--	6.0
19...	1739	.50	--	360	7.6	30.2	--	--	--	5.8
19...	1742	1.0	--	362	7.6	30.2	--	--	--	5.7
19...	1743	1.5	--	362	7.5	30.2	--	--	--	5.6
19...	1744	2.0	--	362	7.5	30.2	--	--	--	5.6
19...	1745	2.3	--	361	7.5	30.2	--	--	--	5.6
20...	1115	.30	3.15	352	7.3	29.8	--	--	--	5.5
20...	1116	.50	--	353	7.3	29.8	--	--	--	5.5
20...	1117	1.0	--	367	7.3	29.7	--	--	--	5.5
20...	1118	1.5	--	361	7.3	29.6	--	--	--	5.5
20...	1119	2.0	--	350	7.2	29.4	--	--	--	5.4
20...	1120	2.5	--	353	7.3	29.4	--	--	--	5.4
20...	1121	3.0	--	354	7.3	29.3	--	--	--	5.3
SEP										
29...	1515	.30	3.65	201	6.5	27.5	2180	--	.7	4.6
29...	1516	.50	--	202	6.5	27.5	--	--	--	4.5
29...	1517	1.0	--	201	6.5	27.5	--	--	--	4.5
29...	1518	1.5	--	201	6.5	27.5	--	--	--	4.4
29...	1519	3.5	--	201	6.6	27.5	--	--	--	4.7
30...	1201	.30	2.95	194	6.7	27.2	--	--	--	3.8
30...	1202	.50	--	194	6.7	27.2	--	--	--	3.7
30...	1203	1.0	--	194	6.6	27.2	--	--	--	3.7
30...	1204	1.5	--	192	6.7	27.2	--	--	--	3.7
30...	1205	2.0	--	191	6.7	27.2	--	--	--	3.7
30...	1206	2.8	--	195	6.7	27.2	--	--	--	3.8

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998

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DATE	TIME	SAM- PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. (82903)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER 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)
265355082075500 UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA, F (LAT 26 53 55N LONG 082 07 55W)										
OCT 1997										
28...	1048	.30	3.85	34200	7.8	24.6	2500	3.0	--	6.2
28...	1049	.50	--	34200	7.8	24.6	--	--	--	6.2
28...	1050	1.0	--	34200	7.8	24.6	--	--	--	6.2
28...	1051	1.5	--	34200	7.8	24.6	--	--	--	6.1
28...	1052	2.0	--	34200	7.8	24.6	--	--	--	6.1
28...	1053	2.5	--	34300	7.8	24.6	--	--	--	6.0
28...	1054	3.0	--	34500	7.8	24.6	--	--	--	6.0
28...	1055	3.5	--	35700	7.8	24.7	--	--	--	5.1
29...	0810	.30	3.65	33600	7.8	23.1	--	--	--	6.1
29...	0811	.50	--	33500	7.8	23.1	--	--	--	6.1
29...	0812	1.0	--	33500	7.8	23.2	--	--	--	6.1
29...	0813	1.5	--	33700	7.8	23.2	--	--	--	6.1
29...	0814	2.0	--	33700	7.8	23.2	--	--	--	6.1
29...	0815	2.5	--	33600	7.8	23.2	--	--	--	6.1
29...	0816	3.0	--	33600	7.8	23.2	--	--	--	6.1
29...	0817	3.5	--	33700	7.8	23.2	--	--	--	6.1
NOV										
19...	1035	.30	3.65	32500	7.8	20.8	2950	3.0	--	7.7
19...	1036	.50	--	32500	7.8	20.8	--	--	--	7.7
19...	1037	1.0	--	32500	7.8	20.8	--	--	--	7.6
19...	1038	1.5	--	32500	7.8	20.7	--	--	--	7.6
19...	1039	2.0	--	32500	7.8	20.7	--	--	--	7.5
19...	1040	2.5	--	33000	7.8	20.6	--	--	--	7.2
19...	1041	3.0	--	35200	7.8	20.7	--	--	--	6.4
19...	1042	3.5	--	35500	7.8	20.7	--	--	--	6.3
20...	0753	.30	3.95	26400	7.7	19.9	--	--	--	6.7
20...	0754	.50	--	26500	7.7	19.9	--	--	--	6.7
20...	0755	1.0	--	26700	7.7	19.9	--	--	--	6.7
20...	0756	1.5	--	27700	7.7	20.0	--	--	--	6.7
20...	0757	2.0	--	28800	7.8	20.1	--	--	--	6.8
20...	0758	2.5	--	30400	7.8	20.2	--	--	--	6.9
20...	0759	3.0	--	36600	7.8	20.8	--	--	--	5.9
20...	0800	3.5	--	37300	7.8	20.8	--	--	--	5.8
DEC										
16...	1047	.30	3.25	20600	7.7	18.0	2380	1.3	--	7.4
16...	1048	.50	--	20700	7.7	18.0	--	--	--	7.4
16...	1049	1.0	--	20500	7.7	18.0	--	--	--	7.4
16...	1050	1.5	--	20700	7.7	18.0	--	--	--	7.4
16...	1051	2.0	--	21000	7.7	18.1	--	--	--	7.3
16...	1052	2.5	--	21100	7.7	18.1	--	--	--	7.3
16...	1053	3.0	--	25500	7.7	18.5	--	--	--	6.8
17...	0844	.30	3.65	9030	7.6	15.6	--	--	--	8.0
17...	0845	.50	--	13800	7.7	16.3	--	--	--	7.6
17...	0846	1.0	--	25700	7.7	18.2	--	--	--	6.8
17...	0847	1.5	--	27000	7.8	18.3	--	--	--	6.9
17...	0848	2.0	--	27100	7.8	18.3	--	--	--	6.9
17...	0849	2.5	--	26900	7.8	18.3	--	--	--	6.8
17...	0850	3.0	--	27300	7.8	18.3	--	--	--	6.7
17...	0851	3.5	--	28300	7.8	18.3	--	--	--	6.6
JAN 1998										
21...	1154	.30	3.75	18400	7.7	19.3	2710	1.6	--	7.9
21...	1155	.50	--	19400	7.8	19.2	--	--	--	7.8
21...	1156	1.0	--	20000	7.8	19.0	--	--	--	7.8
21...	1157	1.5	--	21200	7.8	19.0	--	--	--	7.6
21...	1158	2.0	--	23000	7.8	19.2	--	--	--	7.9
21...	1159	2.5	--	26600	7.8	19.4	--	--	--	7.3
21...	1200	3.0	--	28700	7.7	19.6	--	--	--	6.2
21...	1201	3.5	--	28700	7.7	19.6	--	--	--	6.1
22...	0950	.30	4.05	18900	7.9	19.8	--	--	--	8.6
22...	0951	.50	--	19100	7.9	19.8	--	--	--	8.6
22...	0952	1.0	--	19300	7.9	19.8	--	--	--	8.5
22...	0953	1.5	--	22400	7.8	19.1	--	--	--	8.2
22...	0954	2.0	--	23700	7.8	19.1	--	--	--	8.1
22...	0955	2.5	--	24300	7.8	19.0	--	--	--	7.9
22...	0956	3.0	--	26400	7.8	19.2	--	--	--	7.1
22...	0957	3.5	--	27900	7.7	19.5	--	--	--	6.2
22...	0958	3.9	--	29300	7.7	19.6	--	--	--	5.5

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
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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 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)
265355082075500 UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA, F (LAT 26 53 55N LONG 082 07 55W)										
FEB 1998										
24...	1117	.30	3.75	9330	7.6	20.8	2510	1.3	--	7.4
24...	1118	.50	--	9330	7.6	20.8	--	--	--	7.4
24...	1119	1.0	--	9390	7.6	20.7	--	--	--	7.4
24...	1120	1.5	--	10400	7.6	20.6	--	--	--	7.4
24...	1121	2.0	--	12700	7.6	20.6	--	--	--	7.3
24...	1122	2.5	--	18000	7.7	20.6	--	--	--	7.2
24...	1123	3.0	--	18800	7.7	20.7	--	--	--	7.2
24...	1124	3.5	--	18800	7.7	20.7	--	--	--	7.2
25...	1018	.30	3.45	7470	7.3	20.4	--	--	--	7.4
25...	1019	.50	--	7900	7.3	20.4	--	--	--	7.4
25...	1020	1.0	--	7400	7.3	20.3	--	--	--	7.4
25...	1021	1.5	--	14000	7.4	20.2	--	--	--	7.1
25...	1025	2.0	--	18900	7.5	20.4	--	--	--	6.8
25...	1026	2.5	--	20000	7.5	20.5	--	--	--	6.7
25...	1027	3.0	--	20200	7.7	20.4	--	--	--	6.7
25...	1028	3.3	--	20300	7.7	20.4	--	--	--	6.7
MAR										
24...	1042	.30	3.75	17000	8.5	19.3	2480	1.0	--	9.6
24...	1047	.50	--	16800	8.4	19.3	--	--	--	9.3
24...	1048	1.0	--	17000	8.4	19.3	--	--	--	9.4
24...	1049	1.5	--	17100	8.4	19.3	--	--	--	9.2
24...	1050	2.0	--	17700	8.2	19.0	--	--	--	8.7
24...	1053	2.5	--	24800	7.8	20.0	--	--	--	4.8
24...	1054	3.0	--	25500	7.8	20.3	--	--	--	4.4
24...	1056	3.5	--	25800	7.8	20.3	--	--	--	4.4
25...	0925	.30	3.55	2920	6.7	18.7	--	--	--	6.7
25...	0926	.50	--	2940	6.7	18.7	--	--	--	6.7
25...	0927	1.0	--	3290	6.7	18.6	--	--	--	6.6
25...	0928	1.5	--	9360	6.8	19.0	--	--	--	5.8
25...	0929	2.0	--	22200	7.1	20.0	--	--	--	4.7
25...	0930	2.5	--	23900	7.4	20.1	--	--	--	4.3
25...	0931	3.0	--	24800	7.4	20.1	--	--	--	4.0
25...	0932	3.4	--	24900	7.4	20.1	--	--	--	3.9
APR										
21...	0952	.50	3.85	15500	7.6	25.5	923	1.7	--	6.5
21...	0953	1.0	--	16100	7.5	25.4	--	--	--	5.9
21...	0954	1.5	--	17200	7.5	25.5	--	--	--	5.7
21...	0955	2.0	--	17300	7.5	25.4	--	--	--	5.9
21...	0956	2.5	--	19300	7.6	25.2	--	--	--	5.7
21...	0957	3.0	--	20200	7.6	25.1	--	--	--	5.1
21...	0958	3.5	--	24000	7.4	25.1	--	--	--	2.6
21...	1001	3.7	--	24900	7.3	25.0	--	--	--	1.9
22...	0737	.30	3.65	14600	7.4	24.0	--	--	--	6.4
22...	0738	.50	--	14600	7.4	24.0	--	--	--	6.4
22...	0739	1.0	--	15400	7.4	24.2	--	--	--	5.3
22...	0740	1.5	--	21300	7.3	24.8	--	--	--	4.3
22...	0741	2.0	--	28000	7.3	25.4	--	--	--	4.2
22...	0742	2.5	--	28000	7.4	25.4	--	--	--	4.2
22...	0743	3.0	--	28000	7.4	25.5	--	--	--	4.2
22...	0744	3.5	--	28000	7.4	25.5	--	--	--	4.2
MAY										
19...	1036	.30	4.05	27300	7.8	28.2	2780	4.0	--	--
19...	1037	.50	--	27300	7.8	27.9	--	--	--	--
19...	1038	1.0	--	27500	7.8	27.5	--	--	--	--
19...	1039	1.5	--	28200	7.8	27.5	--	--	--	--
19...	1040	2.0	--	28900	7.8	27.5	--	--	--	--
19...	1041	2.5	--	32900	7.7	27.4	--	--	--	--
19...	1042	3.0	--	34300	7.6	27.3	--	--	--	--
19...	1043	3.5	--	35100	7.6	27.2	--	--	--	--
19...	1044	3.9	--	35400	7.6	27.2	--	--	--	--
20...	0913	.30	3.95	29500	7.7	28.4	--	--	--	--
20...	0914	.50	--	29500	7.7	27.9	--	--	--	--
20...	0915	1.0	--	29800	7.7	27.7	--	--	--	--
20...	0916	1.5	--	29700	7.7	27.6	--	--	--	--
20...	0917	2.0	--	30100	7.7	27.4	--	--	--	--
20...	0918	2.5	--	30400	7.7	27.3	--	--	--	--
20...	0919	3.0	--	33900	7.6	27.3	--	--	--	--
20...	0920	3.5	--	35000	7.5	27.3	--	--	--	--
20...	0921	3.8	--	35100	7.5	27.2	--	--	--	--

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
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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)
265355082075500 UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA, F(LAT 26 53 55N LONG 082 07 55W)										
JUN										
24...	1006	.30	4.15	32500	8.2	31.6	3050	--	--	6.5
24...	1007	.50	--	32800	8.2	31.3	--	--	--	6.5
24...	1008	1.0	--	33400	8.2	30.8	--	--	--	6.2
24...	1009	1.5	--	33300	8.2	30.7	--	--	--	6.1
24...	1010	2.0	--	33700	8.2	30.6	--	--	--	5.9
24...	1011	2.5	--	33700	8.2	30.6	--	--	--	5.8
24...	1012	3.0	--	35000	8.2	31.0	--	--	--	5.4
24...	1013	3.5	--	35900	8.1	31.3	--	--	--	3.4
24...	1014	4.0	--	36600	8.1	31.4	--	--	1.2	3.0
25...	0746	.30	4.05	33900	8.1	30.5	--	--	--	5.0
25...	0747	.50	--	33900	8.1	30.6	--	--	--	5.0
25...	0748	1.0	--	33900	8.1	30.6	--	--	--	4.9
25...	0749	1.5	--	33900	8.1	30.6	--	--	--	4.9
25...	0750	2.0	--	34000	8.1	30.6	--	--	--	4.9
25...	0751	2.5	--	34600	8.1	30.9	--	--	--	4.8
25...	0752	3.0	--	35200	8.1	31.3	--	--	--	4.8
25...	0753	3.5	--	35700	8.1	31.3	--	--	--	3.8
25...	0754	3.9	--	35800	8.0	31.3	--	--	--	3.3
JUL 1998										
21...	0948	.30	4.25	32100	8.1	29.4	2280	--	--	7.3
21...	0949	.50	--	32100	8.1	29.3	--	--	--	7.3
21...	0951	1.0	--	32000	8.1	29.4	--	--	--	7.3
21...	0952	1.5	--	32100	8.1	29.3	--	--	--	7.3
21...	0953	2.0	--	32200	8.1	29.3	--	--	--	7.3
21...	0954	2.5	--	32200	8.1	29.3	--	--	--	7.2
21...	0955	3.0	--	32200	8.1	29.3	--	--	--	7.0
21...	0956	3.5	--	36700	7.8	29.9	--	--	--	3.4
21...	0957	4.0	--	36800	7.7	29.9	--	--	3.5	3.0
22...	0839	.30	4.05	29900	8.2	28.6	--	--	--	7.0
22...	0840	.50	--	30000	8.2	28.6	--	--	--	7.0
22...	0841	1.0	--	30000	8.2	28.6	--	--	--	6.9
22...	0842	1.5	--	30000	8.1	28.6	--	--	--	6.9
22...	0843	2.0	--	30000	8.1	28.6	--	--	--	6.9
22...	0844	2.5	--	30000	8.1	28.6	--	--	--	6.8
22...	0845	3.0	--	30000	8.1	28.6	--	--	--	6.8
22...	0846	3.5	--	35600	7.7	29.6	--	--	--	2.2
22...	0847	3.9	--	35600	7.8	29.6	--	--	--	2.1
AUG										
19...	0958	.30	4.05	30000	8.2	30.5	2410	--	--	7.0
19...	1000	.50	--	30100	8.2	30.5	--	--	--	7.0
19...	1001	1.0	--	30100	8.2	30.5	--	--	--	7.1
19...	1002	1.5	--	30100	8.2	30.4	--	--	--	7.0
19...	1003	2.0	--	30200	8.2	30.4	--	--	--	6.9
19...	1004	2.5	--	31000	8.2	30.7	--	--	--	6.4
19...	1005	3.0	--	33700	8.0	31.2	--	--	--	4.4
19...	1006	3.5	--	33800	8.0	31.2	--	--	--	4.1
19...	1007	3.9	--	33800	8.0	31.1	--	--	1.7	4.1
20...	0750	.30	3.95	31800	7.8	30.4	--	--	--	5.7
20...	0751	.50	--	31900	7.9	30.4	--	--	--	5.6
20...	0752	1.0	--	32000	7.9	30.4	--	--	--	5.5
20...	0753	1.5	--	32200	7.9	30.4	--	--	--	5.5
20...	0754	2.0	--	31900	7.9	30.4	--	--	--	5.5
20...	0755	2.5	--	32000	7.9	30.4	--	--	--	5.5
20...	0756	3.0	--	32000	7.9	30.4	--	--	--	5.4
20...	0757	3.5	--	32300	7.8	30.5	--	--	--	5.2
20...	0758	3.7	--	32100	7.8	30.5	--	--	--	4.9
SEP										
29...	0923	.30	4.15	19900	7.9	27.7	2490	--	1.8	7.4
29...	0924	.50	--	19800	7.9	27.7	--	--	--	7.6
29...	0925	1.0	--	19700	7.9	27.7	--	--	--	7.7
29...	0926	1.5	--	19700	7.9	27.7	--	--	--	7.8
29...	0927	2.0	--	19900	7.9	27.7	--	--	--	7.8
29...	0928	2.5	--	19900	7.9	27.6	--	--	--	7.8
29...	0929	3.0	--	20100	7.8	27.6	--	--	--	7.8
29...	0930	3.5	--	19900	7.8	27.6	--	--	--	7.8
29...	0931	4.0	--	28400	7.4	27.3	--	--	--	2.4

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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 R. AT RIVER MILE 3.95 NR PUNTA GORDA, FL (LAT 26 56 40N LONG 082 03 35W)										
OCT 1997										
28...	1203	.30	2.75	25300	7.6	24.5	2500	1.9	--	5.9
28...	1204	.50	--	25200	7.6	24.5	--	--	--	5.9
28...	1205	1.0	--	25300	7.6	24.5	--	--	--	5.8
28...	1206	1.5	--	25500	7.6	24.3	--	--	--	5.8
28...	1207	2.0	--	25800	7.6	24.3	--	--	--	5.8
28...	1208	2.5	--	25900	7.6	24.3	--	--	--	5.8
29...	0834	.30	2.85	21400	7.5	22.5	--	--	--	6.0
29...	0835	.50	--	21300	7.5	22.5	--	--	--	6.0
29...	0836	1.0	--	22000	7.5	22.6	--	--	--	5.8
29...	0837	1.5	--	23200	7.5	22.7	--	--	--	5.7
29...	0838	2.0	--	28400	7.5	23.6	--	--	--	4.9
29...	0839	2.5	--	33200	7.6	24.6	--	--	--	4.2
NOV										
19...	1214	.30	2.75	2040	6.5	20.1	2650	1.2	--	5.9
19...	1215	.50	--	2190	6.5	20.0	--	--	--	5.8
19...	1216	1.0	--	3820	6.5	19.9	--	--	--	5.6
19...	1217	1.5	--	12400	6.8	20.2	--	--	--	5.2
19...	1218	2.0	--	27400	7.2	20.9	--	--	--	4.5
19...	1219	2.5	--	30300	7.4	21.1	--	--	--	4.9
20...	0811	.30	3.15	1740	6.8	19.0	--	--	--	6.4
20...	0812	.50	--	2030	6.8	19.0	--	--	--	6.4
20...	0813	1.0	--	4470	6.9	19.1	--	--	--	6.3
20...	0814	1.5	--	27800	7.4	20.5	--	--	--	5.3
20...	0815	2.0	--	33100	7.6	20.9	--	--	--	5.1
20...	0816	2.5	--	33500	7.6	20.9	--	--	--	5.2
20...	0817	3.0	--	33400	7.6	20.9	--	--	--	5.2
DEC										
16...	1241	.30	2.25	209	6.8	16.8	2410	.58	--	7.3
16...	1242	.50	--	209	6.8	16.8	--	--	--	7.3
16...	1243	1.0	--	211	6.9	16.8	--	--	--	7.3
16...	1244	1.5	--	210	6.9	16.7	--	--	--	7.3
16...	1245	2.0	--	209	6.9	16.7	--	--	--	7.3
17...	0916	.30	2.45	233	6.7	16.2	--	--	--	6.4
17...	0917	.50	--	222	6.7	16.1	--	--	--	6.4
17...	0918	1.0	--	217	6.8	16.1	--	--	--	6.4
17...	0919	1.5	--	229	6.8	16.1	--	--	--	6.4
17...	0920	2.0	--	226	6.8	16.1	--	--	--	6.4
17...	0921	2.3	--	231	6.8	16.1	--	--	--	6.4
JAN 1998										
21...	1309	.30	3.05	3060	7.3	19.5	1080	.80	--	7.3
21...	1310	.50	--	3300	7.3	19.4	--	--	--	7.3
21...	1311	1.0	--	16900	7.4	19.3	--	--	--	5.9
21...	1312	1.5	--	25100	7.4	19.7	--	--	--	5.1
21...	1313	2.0	--	25600	7.5	19.8	--	--	--	4.9
21...	1314	2.5	--	26200	7.5	19.9	--	--	--	4.9
21...	1315	2.9	--	26800	7.5	19.9	--	--	--	4.7
22...	1010	.30	3.05	14500	7.5	19.7	--	--	--	7.1
22...	1011	.50	--	14500	7.5	19.7	--	--	--	7.1
22...	1012	1.0	--	14500	7.5	19.6	--	--	--	7.0
22...	1013	1.5	--	22300	7.5	19.7	--	--	--	5.5
22...	1014	2.0	--	26400	7.6	19.7	--	--	--	5.5
22...	1015	2.5	--	27500	7.6	19.7	--	--	--	5.4
22...	1016	2.9	--	27500	7.6	19.7	--	--	--	5.4
FEB 1998										
24...	1244	.30	2.75	155	6.9	20.0	2460	1.2	--	5.9
24...	1245	.50	--	155	6.9	20.0	--	--	--	5.9
24...	1246	1.0	--	156	6.9	20.0	--	--	--	5.8
24...	1247	1.5	--	155	6.9	20.0	--	--	--	5.7
24...	1248	2.0	--	155	6.8	20.0	--	--	--	5.8
24...	1249	2.5	--	161	6.8	19.9	--	--	--	5.7
25...	1045	.30	2.55	139	6.7	19.3	--	--	--	5.7
25...	1046	.50	--	139	6.7	19.3	--	--	--	5.7
25...	1047	1.0	--	139	6.7	19.3	--	--	--	5.7
25...	1048	1.5	--	139	6.7	19.2	--	--	--	5.7
25...	1049	2.0	--	140	6.7	19.1	--	--	--	5.7
25...	1050	2.4	--	147	6.7	19.0	--	--	--	5.7

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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 R. AT RIVER MILE 3.95 NR PUNTA GORDA, FL (LAT 26 56 40N LONG 082 03 35W)										
MAR										
24...	1213	.30	3.05	206	8.0	18.4	2560	1.2	--	6.8
24...	1214	.50	--	178	7.5	18.4	--	--	--	6.7
24...	1215	1.0	--	279	7.3	18.3	--	--	--	6.6
24...	1216	1.5	--	577	7.2	18.1	--	--	--	6.6
24...	1217	2.0	--	1540	7.1	18.1	--	--	--	6.3
24...	1218	2.5	--	21800	7.0	19.7	--	--	--	4.3
24...	1219	2.9	--	22200	7.3	19.8	--	--	--	3.7
25...	0955	.30	2.65	92	6.4	18.2	--	--	--	7.0
25...	0956	.50	--	97	6.5	18.2	--	--	--	6.7
25...	0957	1.0	--	93	6.5	18.2	--	--	--	6.7
25...	0958	1.5	--	94	6.5	18.1	--	--	--	6.6
25...	0959	2.0	--	94	6.5	18.1	--	--	--	6.6
25...	1000	2.5	--	93	6.5	18.0	--	--	--	6.6
APR										
21...	1115	.30	3.15	9670	7.7	25.9	863	1.6	--	6.5
21...	1116	.50	--	9880	7.7	26.0	--	--	--	6.4
21...	1117	1.0	--	10300	7.7	26.1	--	--	--	6.1
21...	1118	1.5	--	10600	7.6	26.1	--	--	--	6.0
21...	1119	2.0	--	10900	7.6	26.2	--	--	--	5.7
21...	1120	2.5	--	12500	7.5	26.2	--	--	--	5.1
21...	1121	3.0	--	12600	7.5	26.1	--	--	--	5.1
22...	0756	.30	2.65	3490	7.7	24.0	--	--	--	7.0
22...	0757	.50	--	3520	7.7	24.0	--	--	--	7.1
22...	0758	1.0	--	3560	7.7	24.0	--	--	--	7.2
22...	0759	1.5	--	3630	7.6	24.0	--	--	--	7.1
22...	0800	2.0	--	4140	7.6	24.4	--	--	--	6.8
22...	0801	2.5	--	4810	7.5	24.7	--	--	--	6.6
MAY										
19...	1152	.30	3.05	24700	7.5	28.7	3000	2.8	--	--
19...	1153	.50	--	25200	7.5	28.7	--	--	--	--
19...	1154	1.0	--	25200	7.4	28.1	--	--	--	--
19...	1155	1.5	--	25200	7.4	28.1	--	--	--	--
19...	1156	2.0	--	25600	7.4	28.1	--	--	--	--
19...	1157	2.5	--	25500	7.4	28.0	--	--	--	--
19...	1158	2.9	--	26100	7.4	27.8	--	--	--	--
20...	0938	.30	2.85	24700	7.4	28.4	--	--	--	--
20...	0939	.50	--	24800	7.3	28.2	--	--	--	--
20...	0940	1.0	--	24900	7.3	28.0	--	--	--	--
20...	0941	1.5	--	25000	7.3	28.0	--	--	--	--
20...	0942	2.0	--	25500	7.3	28.0	--	--	--	--
20...	0943	2.5	--	25500	7.3	28.0	--	--	--	--
JUN										
24...	1128	.30	3.45	26000	8.2	32.1	2810	3.0	--	7.0
24...	1129	.50	--	26100	8.1	32.0	--	--	--	6.8
24...	1131	1.0	--	28100	8.1	31.1	--	--	--	6.1
24...	1132	1.5	--	31400	7.8	31.3	--	--	--	3.3
24...	1133	2.0	--	32000	7.8	31.3	--	--	--	3.2
24...	1134	2.5	--	31300	7.8	31.3	--	--	--	3.1
24...	1135	3.0	--	32100	7.8	31.3	--	--	--	3.1
24...	1136	3.3	--	31600	7.8	31.3	--	--	--	3.1
25...	0802	.30	3.15	27300	7.9	29.9	--	--	--	5.4
25...	0803	.50	--	27500	7.9	29.9	--	--	--	5.3
25...	0804	1.0	--	27400	7.9	29.9	--	--	--	5.3
25...	0805	1.5	--	27500	7.9	30.0	--	--	--	5.2
25...	0806	2.0	--	27700	7.9	30.0	--	--	--	5.2
25...	0807	2.5	--	27700	7.9	30.0	--	--	--	5.1
25...	0808	3.0	--	27800	7.9	30.0	--	--	--	5.0

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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 R. AT RIVER MILE 3.95 NR PUNTA GORDA, FL (LAT 26 56 40N LONG 082 03 35W)										
JUL										
21...	1100	.30	3.65	21200	7.9	29.5	2620	3.2	--	7.3
21...	1101	.50	--	21200	7.9	29.4	--	--	--	7.1
21...	1102	1.0	--	22900	7.9	29.2	--	--	--	6.9
21...	1103	1.5	--	28300	7.7	29.3	--	--	--	4.3
21...	1104	2.0	--	29500	7.6	29.4	--	--	--	3.2
21...	1105	2.5	--	30300	7.6	29.5	--	--	--	2.8
21...	1106	3.0	--	32000	7.6	29.5	--	--	--	2.4
21...	1107	3.5	--	32500	7.6	29.5	--	--	--	2.3
22...	0901	.30	2.95	15900	7.8	28.1	--	--	--	6.1
22...	0902	.50	--	17600	7.8	28.2	--	--	--	5.5
22...	0903	1.0	--	21300	7.7	28.6	--	--	--	4.8
22...	0904	1.5	--	28000	7.6	29.2	--	--	--	3.0
22...	0905	2.0	--	30400	7.6	29.4	--	--	--	2.3
22...	0906	2.5	--	30600	7.6	29.4	--	--	--	2.3
22...	0907	2.8	--	30600	7.7	29.4	--	--	--	2.3
AUG										
19...	1121	.30	3.15	22300	7.9	30.6	2990	--	--	6.5
19...	1122	.50	--	22200	7.9	30.6	--	--	--	6.5
19...	1123	1.0	--	22500	7.9	30.5	--	--	--	6.4
19...	1124	1.5	--	24900	7.9	30.8	--	--	--	5.8
19...	1125	2.0	--	30000	7.7	31.0	--	--	--	2.8
19...	1126	2.5	--	30200	7.7	31.0	--	--	--	2.7
19...	1127	3.0	--	30300	7.7	31.0	--	--	2.0	2.6
20...	0811	.30	2.95	20000	7.4	30.0	--	--	--	4.8
20...	0812	.50	--	20000	7.4	30.0	--	--	--	4.6
20...	0813	1.0	--	20100	7.4	30.0	--	--	--	4.5
20...	0814	1.5	--	21400	7.4	30.1	--	--	--	4.2
20...	0815	2.0	--	25400	7.4	30.5	--	--	--	3.5
20...	0816	2.5	--	29100	7.4	30.9	--	--	--	2.6
20...	0817	2.8	--	29300	7.4	30.9	--	--	--	2.5

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)
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265640082033500 PEACE R. AT RIVER MILE 3.95 NR PUNTA GORDA, FL (LAT 26 56 40N LONG 082 03 35W)

SEP 1998

29...	1053	.30	3.25	920	6.9	28.1	2730	.8	5.9
29...	1054	.50	--	926	6.9	28.1	--	--	5.8
29...	1055	1.0	--	1010	6.9	28.0	--	--	5.8
29...	1056	1.5	--	1340	6.9	28.0	--	--	5.7
29...	1057	2.0	--	8470	6.9	27.8	--	--	4.3
29...	1058	2.5	--	18400	7.0	27.5	--	--	3.1
29...	1059	3.0	--	20900	7.1	27.3	--	--	2.6
30...	0836	.30	3.45	1320	7.0	27.9	--	--	5.8
30...	0837	.50	--	1360	6.9	27.9	--	--	5.7
30...	0838	1.0	--	1380	6.9	27.9	--	--	5.7
30...	0839	1.5	--	1490	6.9	27.9	--	--	5.7
30...	0840	2.0	--	1770	6.9	27.9	--	--	5.7
30...	0841	2.5	--	2580	7.0	28.0	--	--	5.8
30...	0842	3.0	--	8880	6.9	28.7	--	--	3.6
30...	0843	3.3	--	12400	7.0	28.4	--	--	1.9

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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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)
265711081595500 PEACE R. AT RIVER MILE 8.61 NR PUNTA GORDA, FL (LAT 26 57 11N LONG 081 59 55W)									
OCT 1997									
29...	0910	.30	3.35	5910	7.5	22.4	--	--	6.4
29...	0911	.50	--	6180	7.5	22.5	--	--	6.3
29...	0912	1.0	--	5960	7.5	22.4	--	--	6.3
29...	0913	1.5	--	7270	7.4	22.8	--	--	6.1
29...	0914	2.0	--	7580	7.4	22.7	--	--	6.1
29...	0915	2.5	--	8030	7.4	22.8	--	--	6.1
29...	0916	3.0	--	8480	7.4	22.9	--	--	6.0
NOV									
20...	0903	.30	3.15	127	6.8	19.0	--	--	5.8
20...	0904	.50	--	128	6.8	19.0	--	--	5.8
20...	0905	1.0	--	126	6.7	19.0	--	--	5.8
20...	0906	1.5	--	128	6.7	19.0	--	--	5.8
20...	0907	2.0	--	125	6.7	18.9	--	--	5.8
20...	0908	2.5	--	127	6.7	18.9	--	--	5.8
20...	0909	3.0	--	126	6.6	18.9	--	--	5.8
DEC									
17...	0947	.30	3.25	170	6.9	16.1	--	--	6.2
17...	0948	.50	--	173	6.8	16.1	--	--	6.2
17...	0949	1.0	--	183	6.8	16.1	--	--	6.2
17...	0950	1.5	--	193	6.8	16.1	--	--	6.3
17...	0951	2.0	--	219	6.8	16.2	--	--	6.4
17...	0952	2.5	--	212	6.9	16.2	--	--	6.4
17...	0953	3.0	--	236	6.9	16.2	--	--	6.4
JAN 1998									
22...	1050	.30	4.05	991	7.5	19.2	--	--	7.2
22...	1051	.50	--	991	7.4	19.2	--	--	7.2
22...	1052	1.0	--	1030	7.4	19.1	--	--	7.2
22...	1053	1.5	--	1080	7.4	19.1	--	--	7.2
22...	1054	2.0	--	1450	7.3	18.9	--	--	7.0
22...	1055	2.5	--	2350	7.2	18.8	--	--	6.8
22...	1056	3.0	--	4170	7.1	18.8	--	--	6.4
22...	1057	3.5	--	7820	7.1	18.9	--	--	5.7
22...	1058	3.9	--	10800	7.0	19.0	--	--	5.3
FEB									
25...	1114	.30	3.25	225	6.8	20.0	--	--	6.3
25...	1115	.50	--	188	6.9	19.7	--	--	6.3
25...	1116	1.0	--	162	6.8	19.5	--	--	6.0
25...	1117	1.5	--	152	6.8	19.4	--	--	5.8
25...	1118	2.0	--	144	6.8	19.4	--	--	5.8
25...	1119	2.5	--	141	6.7	19.4	--	--	5.8
25...	1120	3.0	--	139	6.7	19.3	--	--	5.8
MAR									
25...	1039	.30	3.45	107	6.6	18.8	--	--	6.7
25...	1040	.50	--	111	6.6	18.8	--	--	6.7
25...	1041	1.0	--	106	6.6	18.7	--	--	6.6
25...	1042	1.5	--	106	6.6	18.7	--	--	6.6
25...	1043	2.0	--	97	6.6	18.6	--	--	6.6
25...	1044	2.5	--	95	6.6	18.5	--	--	6.5
25...	1045	3.0	--	96	6.6	18.5	--	--	6.5
25...	1046	3.3	--	95	6.6	18.5	--	--	6.5
APR									
22...	0831	.30	3.35	399	7.6	24.2	--	--	7.5
22...	0832	.50	--	397	7.6	24.2	--	--	7.5
22...	0833	1.0	--	398	7.6	24.2	--	--	7.6
22...	0834	1.5	--	410	7.5	24.2	--	--	7.5
22...	0835	2.0	--	414	7.5	24.2	--	--	7.5
22...	0836	2.5	--	425	7.5	24.2	--	--	7.5
22...	0837	3.0	--	434	7.5	24.1	--	--	7.4
MAY									
20...	1010	.30	3.95	11000	7.5	28.4	--	--	--
20...	1011	.50	--	11300	7.5	28.2	--	--	--
20...	1012	1.0	--	11600	7.5	28.0	--	--	--
20...	1013	1.5	--	12000	7.5	28.0	--	--	--
20...	1014	2.0	--	12400	7.5	28.0	--	--	--
20...	1015	2.5	--	12500	7.5	27.9	--	--	--
20...	1016	3.0	--	12600	7.5	27.9	--	--	--
20...	1017	3.5	--	12600	7.4	27.9	--	--	--

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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)
265711081595500 PEACE R. AT RIVER MILE 8.61 NR PUNTA GORDA, FL (LAT 26 57 11N LONG 081 59 55W)									
JUN									
25...	0830	.30	3.65	13200	7.4	29.4	--	--	5.3
25...	0831	.50	--	13400	7.4	29.5	--	--	5.2
25...	0832	1.0	--	14200	7.4	29.5	--	--	5.2
25...	0833	1.5	--	14400	7.4	29.5	--	--	5.3
25...	0834	2.0	--	15700	7.5	29.7	--	--	5.1
25...	0835	2.5	--	16300	7.5	29.9	--	--	5.0
25...	0836	3.0	--	16500	7.5	30.0	--	--	5.0
25...	0837	3.5	--	16600	7.5	30.0	--	--	4.9
JUL									
22...	0943	.30	4.15	1140	7.2	27.8	--	--	5.1
22...	0944	.50	--	1150	7.3	27.8	--	--	5.0
22...	0945	1.0	--	1190	7.3	27.8	--	--	5.0
22...	0946	1.5	--	1220	7.3	27.8	--	--	4.9
22...	0947	2.0	--	1230	7.3	27.8	--	--	4.9
22...	0948	2.5	--	1230	7.3	27.8	--	--	4.9
22...	0949	3.0	--	1230	7.3	27.8	--	--	4.9
22...	0950	3.5	--	1230	7.3	27.9	--	--	4.9
22...	0951	4.0	--	1230	7.3	27.9	--	--	4.9
AUG									
20...	0854	.30	3.65	2540	7.2	30.1	--	--	4.8
20...	0855	.50	--	2890	7.2	30.1	--	--	4.7
20...	0856	1.0	--	3640	7.2	30.0	--	--	4.6
20...	0857	1.5	--	4930	7.2	30.1	--	--	4.4
20...	0858	2.0	--	6310	7.2	30.1	--	--	4.4
20...	0859	2.5	--	6610	7.2	30.1	--	--	4.4
20...	0900	3.0	--	8250	7.2	30.2	--	--	3.8
20...	0901	3.5	--	10600	7.1	30.3	--	--	3.4

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)
265711081595500 PEACE R. AT RIVER MILE 8.61 NR PUNTA GORDA, FL (LAT 26 57 11N LONG 081 59 55W)							
SEP 1998							
30...	0917	.30	4.35	271	6.7	27.7	4.3
30...	0918	.50	--	263	6.7	27.7	4.2
30...	0919	1.0	--	259	6.7	27.6	4.2
30...	0920	1.5	--	239	6.7	27.5	4.1
30...	0921	2.0	--	232	6.7	27.4	4.0
30...	0922	2.5	--	225	6.6	27.4	4.1
30...	0923	3.0	--	223	6.6	27.4	4.1
30...	0924	3.5	--	221	6.6	27.4	4.2
30...	0925	4.0	--	221	6.8	27.3	4.2

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
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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)
265724082024400 PEACE R. AT RIVER MILE 4.88 NR PUNTA GORDA, FL (LAT 26 57 24N LONG 082 02 44W)							
OCT 1997							
29...	0850	.30	1.95	15300	7.5	22.1	6.4
29...	0851	.50	--	15300	7.5	22.1	6.3
29...	0852	1.0	--	16500	7.5	23.5	5.3
29...	0853	1.5	--	28500	7.4	24.1	4.5
29...	0854	1.8	--	28700	7.4	24.1	4.5
NOV							
20...	0832	.30	2.15	245	6.5	18.6	6.2
20...	0833	.50	--	239	6.5	18.6	6.1
20...	0834	1.0	--	1480	6.5	18.9	5.8
20...	0835	1.5	--	27300	6.9	21.1	4.1
20...	0836	2.0	--	29400	7.3	21.0	4.6
DEC							
17...	0928	.30	1.75	163	7.0	16.0	6.3
17...	0929	.50	--	163	6.9	16.0	6.3
17...	0930	1.0	--	168	6.9	16.0	6.3
17...	0931	1.5	--	168	6.8	16.0	6.3
JAN 1998							
22...	1025	.30	2.25	6900	7.4	19.3	7.2
22...	1026	.50	--	7000	7.3	19.4	7.2
22...	1027	1.0	--	22100	7.4	19.7	5.7
22...	1028	1.5	--	23300	7.5	19.7	5.4
22...	1029	2.0	--	23400	7.5	19.7	5.3
FEB							
25...	1055	.30	1.65	136	6.7	19.4	6.0
25...	1056	.50	--	136	6.7	19.4	6.0
25...	1057	1.0	--	136	6.7	19.4	6.0
25...	1058	1.5	--	136	6.7	19.4	6.0
MAR							
25...	1014	.30	1.95	92	6.4	18.5	6.7
25...	1015	.50	--	92	6.4	18.5	6.7
25...	1016	1.0	--	94	6.4	18.5	6.7
25...	1017	1.5	--	94	6.4	18.4	6.7
25...	1018	1.8	--	92	6.4	18.4	6.6
APR							
22...	0803	.30	1.85	767	7.8	24.1	7.7
22...	0804	.50	--	767	7.8	24.1	7.7
22...	0805	1.0	--	761	7.8	24.1	7.7
22...	0806	1.5	--	772	7.8	24.0	7.7
MAY							
20...	0950	.30	2.35	21300	7.4	28.2	--
20...	0951	.50	--	21600	7.4	27.9	--
20...	0952	1.0	--	21800	7.4	27.8	--
20...	0953	1.5	--	22200	7.4	27.7	--
20...	0954	2.0	--	22200	7.4	27.7	--
JUN							
25...	0812	.30	2.15	22900	7.9	29.5	5.7
25...	0813	.50	--	22700	7.9	29.4	5.8
25...	0814	1.0	--	24400	7.9	30.1	5.2
25...	0815	1.5	--	26000	7.9	30.5	4.7
25...	0816	2.0	--	26600	7.8	30.6	4.1
JUL							
22...	0911	.30	2.35	9770	7.6	28.2	5.9
22...	0912	.50	--	10700	7.6	28.1	5.8
22...	0913	1.0	--	11800	7.6	28.1	5.6
22...	0914	1.5	--	12900	7.6	28.0	5.4
22...	0915	2.0	--	22600	7.6	28.8	3.7
22...	0916	2.2	--	22900	7.6	28.9	3.6
AUG							
20...	0831	.30	2.15	15900	7.3	30.0	4.6
20...	0832	.50	--	16900	7.4	30.0	4.4
20...	0833	1.0	--	18300	7.4	30.1	4.3
20...	0834	1.5	--	20700	7.4	30.3	4.1
20...	0835	2.0	--	26200	7.5	31.0	3.7
SEP							
30...	0849	.30	2.65	407	6.8	27.6	5.5
30...	0850	.50	--	381	6.8	27.6	5.3
30...	0851	1.0	--	383	6.8	27.6	5.3
30...	0852	1.5	--	414	6.8	27.6	5.3
30...	0853	2.0	--	400	6.8	27.6	5.3
30...	0854	2.5	--	387	6.8	27.6	5.2

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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)
265727082012800 PEACE R. AT RIVER MILE 6.25 NR PUNTA GORDA, FL (LAT 26 57 27N LONG 082 01 28W)							
OCT 1997							
29...	0902	.30	3.15	9820	7.5	22.4	6.3
29...	0903	.50	--	10500	7.5	22.5	6.2
29...	0904	1.0	--	11400	7.4	22.6	6.2
29...	0905	1.5	--	11800	7.4	22.5	6.1
29...	0906	2.0	--	12300	7.4	22.5	6.1
29...	0907	2.5	--	12600	7.4	22.4	6.1
29...	0908	3.0	--	15900	7.4	23.0	5.6
NOV							
20...	0847	.30	3.15	1090	6.8	19.0	5.8
20...	0848	.50	--	1200	6.7	19.0	5.8
20...	0849	1.0	--	1400	6.6	18.9	5.8
20...	0850	1.5	--	2530	6.6	19.0	5.7
20...	0851	2.0	--	9340	6.8	19.6	4.9
20...	0852	2.5	--	16000	6.9	20.3	4.2
20...	0853	3.0	--	22300	7.0	21.1	3.4
DEC							
17...	0936	.30	2.95	173	6.9	16.1	6.3
17...	0937	.50	--	175	6.8	16.1	6.2
17...	0938	1.0	--	186	6.8	16.1	6.2
17...	0939	1.5	--	172	6.8	16.1	6.2
17...	0940	2.0	--	172	6.8	16.1	6.2
17...	0941	2.5	--	177	6.8	16.1	6.2
17...	0942	2.8	--	176	6.8	16.1	6.2
JAN 1998							
22...	1036	.30	3.55	1590	7.3	18.8	7.3
22...	1037	.50	--	1650	7.3	18.8	7.3
22...	1038	1.0	--	1640	7.3	18.8	7.2
22...	1041	1.5	--	10000	7.1	19.1	5.7
22...	1042	2.0	--	19600	7.3	19.5	4.9
22...	1043	2.5	--	21300	7.3	19.6	4.9
22...	1044	3.0	--	21800	7.3	19.7	4.7
22...	1045	3.4	--	23200	7.4	19.7	4.7
FEB							
25...	1106	.30	2.65	209	6.8	19.7	6.2
25...	1107	.50	--	206	6.8	19.6	6.1
25...	1108	1.0	--	207	6.9	19.6	6.2
25...	1109	1.5	--	210	6.9	19.6	6.2
25...	1110	2.0	--	198	6.9	19.5	6.2
25...	1111	2.5	--	196	6.9	19.5	6.1
MAR							
25...	1025	.30	3.15	110	6.6	18.5	6.6
25...	1026	.50	--	109	6.6	18.5	6.6
25...	1027	1.0	--	112	6.6	18.5	6.6
25...	1028	1.5	--	106	6.6	18.4	6.6
25...	1029	2.0	--	106	6.6	18.5	6.6
25...	1030	2.5	--	101	6.6	18.5	6.6
25...	1031	3.0	--	108	6.6	18.4	6.6
APR							
22...	0821	.30	2.95	386	7.5	24.3	7.9
22...	0822	.50	--	385	7.5	24.3	8.0
22...	0823	1.0	--	385	7.5	24.3	8.0
22...	0824	1.5	--	385	7.5	24.3	8.0
22...	0825	2.0	--	394	7.5	24.3	8.0
22...	0826	2.5	--	399	7.5	24.3	7.9
MAY							
20...	1000	.30	3.45	17600	7.5	28.6	--
20...	1001	.50	--	17600	7.5	28.4	--
20...	1002	1.0	--	17600	7.5	28.2	--
20...	1003	1.5	--	17700	7.5	28.1	--
20...	1004	2.0	--	18400	7.4	28.1	--
20...	1005	2.5	--	18700	7.4	28.1	--
20...	1006	3.0	--	18400	7.4	28.1	--
JUN							
25...	0821	.30	3.15	20000	7.6	30.1	5.3
25...	0822	.50	--	20400	7.7	30.2	5.1
25...	0823	1.0	--	21500	7.7	30.4	4.9
25...	0824	1.5	--	23200	7.7	30.7	4.8
25...	0825	2.0	--	23600	7.7	30.8	4.7
25...	0826	2.5	--	23900	7.7	30.8	4.6
25...	0827	3.0	--	24200	7.8	30.7	4.7

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998

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)
265727082012800 PEACE R. AT RIVER MILE 6.25 NR PUNTA GORDA, FL (LAT 26 57 27N LONG 082 01 28W)							
JUL							
22...	0923	.30	3.45	3430	7.4	28.0	5.5
22...	0924	.50	--	3520	7.4	28.0	5.5
22...	0925	1.0	--	3990	7.4	28.0	5.4
22...	0926	1.5	--	5890	7.4	28.1	5.1
22...	0927	2.0	--	13400	7.5	28.5	4.4
22...	0928	2.5	--	16200	7.4	28.7	4.2
22...	0929	3.0	--	20400	7.5	29.0	3.9
22...	0930	3.3	--	20900	7.5	29.0	3.9
AUG							
20...	0841	.30	3.45	8730	7.3	30.0	4.8
20...	0842	.50	--	8690	7.3	30.0	4.7
20...	0843	1.0	--	9340	7.2	29.9	4.4
20...	0844	1.5	--	10200	7.2	29.9	4.0
20...	0845	2.0	--	14200	7.2	30.3	3.6
20...	0846	2.5	--	17800	7.2	30.6	2.9
20...	0847	3.0	--	20400	7.2	30.7	2.5
20...	0848	3.3	--	20400	7.2	30.7	2.5
SEP							
30...	0901	.30	4.05	256	6.7	27.5	4.7
30...	0902	.50	--	261	6.7	27.5	4.7
30...	0903	1.0	--	256	6.7	27.5	4.6
30...	0904	1.5	--	259	6.7	27.4	4.6
30...	0905	2.0	--	256	6.7	27.5	4.6
30...	0906	2.5	--	255	6.7	27.4	4.6
30...	0907	3.0	--	255	6.7	27.4	4.6
30...	0908	3.5	--	257	6.7	27.4	4.6
30...	0909	3.9	--	258	6.7	27.4	4.5

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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 R. AT RIVER MILE 8.6B NR PUNTA GORDA, FL (LAT 26 58 19N LONG 082 00 32W)							
OCT 1997							
29...	0920	.30	2.65	6540	7.5	23.1	6.1
29...	0921	.50	--	6710	7.4	23.2	6.0
29...	0922	1.0	--	6730	7.4	23.2	6.0
29...	0923	1.5	--	7240	7.4	23.3	5.9
29...	0924	2.0	--	7370	7.4	23.3	5.9
29...	0925	2.5	--	8130	7.4	23.4	5.8
NOV							
20...	0914	.30	2.55	109	6.8	19.0	5.8
20...	0915	.50	--	109	6.7	19.0	5.7
20...	0916	1.0	--	110	6.7	19.0	5.7
20...	0917	1.5	--	109	6.7	19.0	5.7
20...	0918	2.0	--	107	6.6	19.0	5.7
20...	0919	2.4	--	109	6.6	19.0	5.7
DEC							
17...	0959	.30	2.95	149	6.9	16.2	6.3
17...	1000	.50	--	148	6.8	16.2	6.2
17...	1001	1.0	--	148	6.8	16.1	6.2
17...	1002	1.5	--	149	6.7	16.1	6.2
17...	1003	2.0	--	148	6.7	16.1	6.2
17...	1004	2.5	--	148	6.7	16.1	6.2
JAN 1998							
22...	1104	.30	3.35	327	7.5	18.5	7.1
22...	1105	.50	--	340	7.3	18.5	7.1
22...	1106	1.0	--	346	7.3	18.4	7.1
22...	1107	1.5	--	367	7.2	18.4	7.1
22...	1108	2.0	--	376	7.2	18.4	7.1
22...	1109	2.5	--	391	7.2	18.4	7.1
22...	1110	3.0	--	483	7.2	18.3	7.0
22...	1111	3.2	--	590	7.2	18.4	7.0
FEB							
25...	1126	.30	2.25	131	6.8	19.4	5.7
25...	1127	.50	--	131	6.7	19.5	5.8
25...	1128	1.0	--	131	6.7	19.4	5.7
25...	1129	1.5	--	130	6.7	19.3	5.7
25...	1130	2.0	--	130	6.7	19.3	5.7
MAR							
25...	1050	.30	2.15	83	6.4	18.4	6.6
25...	1051	.50	--	84	6.4	18.4	6.6
25...	1052	1.0	--	83	6.4	18.4	6.6
25...	1053	1.5	--	83	6.4	18.4	6.6
25...	1054	2.0	--	83	6.4	18.4	6.6
APR							
22...	0841	.30	3.05	275	7.5	24.6	8.3
22...	0842	.50	--	279	7.5	24.6	8.3
22...	0843	1.0	--	274	7.5	24.5	8.3
22...	0844	1.5	--	273	7.5	24.5	8.3
22...	0845	2.0	--	279	7.5	24.5	8.3
22...	0846	2.5	--	283	7.5	24.5	8.3
22...	0847	2.9	--	282	7.5	24.5	8.2
MAY							
20...	1020	.30	2.65	11500	7.5	28.2	--
20...	1022	.50	--	11700	7.5	28.1	--
20...	1023	1.0	--	11700	7.5	28.1	--
20...	1024	1.5	--	12300	7.5	27.9	--
20...	1025	2.0	--	13100	7.5	28.0	--
20...	1026	2.5	--	13800	7.5	27.8	--
JUN							
25...	0840	.30	2.75	13800	7.4	29.6	5.4
25...	0841	.50	--	13900	7.4	29.6	5.4
25...	0842	1.0	--	14600	7.4	29.7	5.2
25...	0843	1.5	--	14900	7.4	29.7	5.2
25...	0844	2.0	--	15200	7.4	29.7	5.1
25...	0845	2.5	--	15500	7.4	29.7	5.1
JUL							
22...	0953	.30	2.55	1050	7.3	28.0	5.1
22...	0954	.50	--	1050	7.4	28.0	5.0
22...	0955	1.0	--	1060	7.4	28.0	5.0
22...	0956	1.5	--	1060	7.4	28.0	5.0
22...	0957	2.0	--	1060	7.3	28.0	5.0
22...	0958	2.4	--	1050	7.3	28.0	4.9

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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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)
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265819082003200 PEACE R. AT RIVER MILE 8.6B NR PUNTA GORDA, FL (LAT 26 58 19N LONG 082 00 32W)

AUG

20...	0906	.30	2.75	2820	7.3	30.3	5.1
20...	0907	.50	--	2900	7.3	30.3	5.0
20...	0908	1.0	--	3100	7.2	30.2	4.8
20...	0909	1.5	--	3530	7.2	30.1	4.7
20...	0910	2.0	--	4210	7.2	30.1	4.0
20...	0911	2.5	--	6110	7.1	30.0	3.5
20...	0912	2.6	--	6810	7.1	30.0	3.3

SEP

30...	0930	.30	3.45	205	6.7	27.5	4.1
30...	0931	.50	--	202	6.7	27.5	4.1
30...	0932	1.0	--	199	6.7	27.5	4.0
30...	0933	1.5	--	204	6.7	27.5	4.0
30...	0934	2.0	--	203	6.7	27.5	3.9
30...	0935	2.5	--	209	6.7	27.4	3.9
30...	0936	3.0	--	232	6.7	27.2	4.2

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998

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)
270022081591000 PEACE RIVER SITE PR40 NEAR MARY POINT (LAT 27 00 22N LONG 081 59 10W)							
OCT 1997							
29...	1002	.30	4.45	751	7.2	22.9	5.4
29...	1003	.50	--	753	7.1	22.9	5.4
29...	1004	1.0	--	758	7.1	22.9	5.3
29...	1005	1.5	--	763	7.1	22.9	5.2
29...	1006	2.0	--	779	7.1	22.9	5.2
29...	1007	2.5	--	789	7.1	22.9	5.2
29...	1008	3.0	--	797	7.1	22.9	5.2
29...	1009	3.5	--	805	7.1	22.9	5.2
29...	1010	4.0	--	858	7.1	22.8	5.2
NOV							
20...	1009	.30	1.55	108	6.9	19.1	5.8
20...	1010	.50	--	107	6.8	19.1	5.8
20...	1011	1.0	--	108	6.7	19.1	5.8
20...	1012	1.4	--	107	6.6	19.1	5.8
DEC							
17...	1032	.30	3.65	144	7.1	16.1	6.3
17...	1033	.50	--	144	6.9	16.1	6.3
17...	1034	1.0	--	145	6.8	16.1	6.2
17...	1035	1.5	--	144	6.7	16.1	6.2
17...	1036	2.0	--	144	6.7	16.1	6.2
17...	1037	2.5	--	144	6.7	16.1	6.2
17...	1038	3.0	--	144	6.7	16.1	6.2
17...	1039	3.5	--	144	6.7	16.1	6.2
JAN 1998							
22...	1150	.30	4.05	227	7.2	18.6	7.3
22...	1151	.50	--	223	7.2	18.6	7.3
22...	1152	1.0	--	227	7.2	18.5	7.2
22...	1153	1.5	--	222	7.2	18.5	7.2
22...	1154	2.0	--	224	7.1	18.0	7.1
22...	1155	2.5	--	222	7.1	18.0	7.0
22...	1156	3.0	--	224	7.1	18.0	7.0
22...	1157	3.5	--	223	7.1	18.0	7.0
22...	1158	3.9	--	224	7.1	18.0	7.0
FEB							
25...	1211	.30	2.65	134	6.7	19.7	5.9
25...	1212	.50	--	132	6.7	19.7	5.8
25...	1213	1.0	--	130	6.7	19.7	5.8
25...	1214	1.5	--	133	6.7	19.7	5.8
25...	1215	2.0	--	134	6.7	19.7	5.8
25...	1216	2.5	--	131	6.7	19.5	5.8
MAR							
25...	1135	.30	--	81	6.4	18.7	6.8
25...	1136	.50	--	83	6.4	18.7	6.7
25...	1137	1.0	--	84	6.4	18.7	6.7
25...	1138	1.5	--	84	6.4	18.7	6.6
25...	1139	2.0	--	78	6.4	18.7	6.6
25...	1140	2.5	--	83	6.4	18.6	6.6
25...	1141	3.0	--	77	6.5	18.6	6.6
25...	1142	3.5	--	84	6.4	18.6	6.6
APR							
22...	0905	.30	4.45	263	7.3	24.2	7.4
22...	0906	.50	--	263	7.3	24.2	7.4
22...	0907	1.0	--	263	7.3	24.2	7.4
22...	0908	1.5	--	263	7.3	24.2	7.4
22...	0909	2.0	--	263	7.2	24.2	7.3
22...	0910	2.5	--	263	7.2	24.2	7.2
22...	0911	3.0	--	263	7.2	24.1	7.1
22...	0912	3.5	--	263	7.2	24.1	7.1
22...	0913	4.0	--	264	7.2	24.2	7.1
22...	0914	4.3	--	263	7.2	24.1	7.0
MAY							
20...	1050	.30	5.15	3600	6.9	28.7	--
20...	1051	.50	--	3730	7.1	28.6	--
20...	1052	1.0	--	3960	7.1	28.2	--
20...	1053	1.5	--	3930	7.2	28.2	--
20...	1054	2.0	--	4030	7.2	28.3	--
20...	1055	2.5	--	4080	7.2	28.3	--
20...	1056	3.0	--	4090	7.2	28.3	--
20...	1057	3.5	--	4300	7.2	28.3	--
20...	1058	4.0	--	4310	7.3	28.3	--
20...	1059	4.5	--	4370	7.3	28.2	--
20...	1100	5.0	--	4260	7.3	28.2	--

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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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)
270022081591000 PEACE RIVER SITE PR40 NEAR MARY POINT (LAT 27 00 22N LONG 081 59 10W)							
JUN							
25...	0940	.30	2.65	7140	7.1	30.5	4.4
25...	0941	.50	--	7150	7.1	30.5	4.3
25...	0942	1.0	--	7130	7.1	30.6	4.3
25...	0943	1.5	--	7140	7.1	30.5	4.3
25...	0944	2.0	--	7240	7.1	30.5	4.3
25...	0945	2.5	--	7310	7.1	30.5	4.2
JUL							
22...	1041	.30	4.55	450	7.2	27.9	4.4
22...	1042	.50	--	451	7.2	27.9	4.4
22...	1043	1.0	--	451	7.2	27.9	4.3
22...	1044	1.5	--	451	7.2	27.9	4.3
22...	1045	2.0	--	452	7.2	27.9	4.3
22...	1046	2.5	--	451	7.2	27.9	4.3
22...	1047	3.0	--	451	7.2	27.9	4.3
22...	1048	3.5	--	452	7.2	27.9	4.3
22...	1049	4.0	--	452	7.2	27.8	4.3
22...	1050	4.4	--	452	7.2	27.8	4.3
AUG							
20...	0956	.30	3.45	379	7.2	30.4	4.5
20...	0957	.50	--	380	7.2	30.4	4.5
20...	0958	1.0	--	393	7.2	30.4	4.6
20...	0959	1.5	--	388	7.2	30.4	4.6
20...	1000	2.0	--	400	7.2	30.4	4.7
20...	1001	2.5	--	418	7.2	30.4	4.7
20...	1002	3.0	--	422	7.2	30.4	4.7
20...	1003	3.3	--	417	7.2	30.4	4.7
SEP							
30...	1015	.30	5.25	188	6.7	27.1	3.9
30...	1016	.50	--	187	6.6	27.1	3.8
30...	1017	1.0	--	187	6.6	27.1	3.8
30...	1018	1.5	--	188	6.6	27.1	3.7
30...	1019	2.0	--	194	6.6	27.1	3.7
30...	1020	2.5	--	187	6.6	27.1	3.7
30...	1021	3.0	--	195	6.6	27.0	3.7
30...	1022	3.5	--	188	6.7	27.0	3.7
30...	1023	4.0	--	186	6.7	27.0	3.7
30...	1024	4.5	--	187	6.7	27.0	3.6
30...	1025	5.0	--	194	6.6	27.0	3.5

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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 FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
270124081592500 PEACE R. AT RIVER MILE 12.55 NR HARBOUR HTS., FL (LAT 27 01 24N LONG 081 59 25W)							
OCT 1997							
29...	1013	.30	1.75	580	7.4	22.8	5.4
29...	1014	.50	--	582	7.3	22.8	5.3
29...	1015	1.0	--	565	7.3	22.7	5.3
29...	1016	1.5	--	566	7.3	22.7	5.3
NOV							
20...	1017	.30	3.75	109	6.6	19.1	5.7
20...	1018	.50	--	107	6.6	19.1	5.7
20...	1019	1.0	--	109	6.6	19.1	5.7
20...	1020	1.5	--	104	6.6	19.1	5.7
20...	1021	2.0	--	104	6.6	19.1	5.7
20...	1022	2.5	--	105	6.6	19.1	5.7
20...	1023	3.0	--	110	6.6	19.1	5.7
20...	1024	3.5	--	108	6.6	19.1	5.7
DEC							
17...	1043	.30	3.15	141	6.8	16.1	6.2
17...	1044	.50	--	142	6.7	16.1	6.1
17...	1045	1.0	--	142	6.7	16.1	6.1
17...	1046	1.5	--	142	6.6	16.1	6.2
17...	1052	2.0	--	143	6.6	16.1	6.2
17...	1053	2.5	--	142	6.6	16.1	6.2
17...	1054	3.0	--	143	6.6	16.1	6.1
JAN 1998							
22...	1159	.30	2.35	218	7.2	18.5	7.2
22...	1200	.50	--	222	7.2	18.4	7.2
22...	1201	1.0	--	213	7.1	18.3	7.1
22...	1202	1.5	--	215	7.1	18.2	7.1
22...	1203	2.0	--	228	7.1	18.2	7.1
FEB							
25...	1224	.30	2.15	130	6.7	19.6	5.7
25...	1225	.50	--	131	6.7	19.5	5.7
25...	1226	1.0	--	130	6.7	19.5	5.7
25...	1227	1.5	--	130	6.7	19.5	5.7
25...	1228	2.0	--	132	6.7	19.5	5.7
MAR							
25...	1142	.30	--	82	6.4	18.7	6.8
25...	1143	.30	--	82	6.4	18.7	6.8
25...	1144	.50	--	79	6.4	18.7	6.7
25...	1145	1.0	--	82	6.4	18.7	6.7
25...	1146	1.5	--	80	6.4	18.7	6.7
25...	1147	2.0	--	77	6.4	18.7	6.6
25...	1148	2.5	--	78	6.4	18.7	6.6
APR							
22...	0915	.30	1.65	263	7.4	24.3	7.3
22...	0916	.50	--	263	7.3	24.3	7.2
22...	0917	1.0	--	263	7.3	24.2	7.1
22...	0918	1.5	--	264	7.2	24.1	6.9
MAY							
20...	1120	.30	2.15	2050	7.4	28.9	--
20...	1121	.50	--	2040	7.4	28.9	--
20...	1122	1.0	--	2260	7.4	28.6	--
20...	1123	1.5	--	2310	7.3	28.4	--
20...	1124	2.0	--	2330	7.3	28.4	--
JUN							
25...	0949	.30	2.05	3770	7.1	30.7	3.9
25...	0950	.50	--	3790	7.1	30.6	3.8
25...	0951	1.0	--	3900	7.0	30.6	3.7
25...	0952	1.5	--	4140	7.0	30.6	3.7
25...	0953	1.9	--	4160	7.0	30.6	3.7
JUL							
22...	1052	.30	3.55	442	7.1	27.7	4.3
22...	1053	.50	--	428	7.1	27.7	4.2
22...	1054	1.0	--	440	7.0	27.7	4.2
22...	1055	1.5	--	434	7.0	27.7	4.2
22...	1056	2.0	--	449	7.0	27.7	4.1
22...	1057	2.5	--	449	7.0	27.7	4.1
22...	1058	3.0	--	451	7.0	27.7	4.1
22...	1059	3.4	--	429	7.0	27.7	4.1

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
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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)
270124081592500 PEACE R. AT RIVER MILE 12.55 NR HARBOUR HTS., FL (LAT 27 01 24N LONG 081 59 25W)							
AUG							
20...	1004	.30	2.15	367	7.1	30.1	4.1
20...	1005	.50	--	372	7.1	30.1	4.1
20...	1006	1.0	--	369	7.1	30.1	4.0
20...	1007	1.5	--	361	7.1	30.0	4.0
20...	1008	2.0	--	380	7.1	30.0	4.0
SEP							
30...	1026	.30	2.65	187	6.7	27.3	3.9
30...	1027	.50	--	188	6.7	27.3	3.8
30...	1028	1.0	--	190	6.7	27.3	3.7
30...	1029	1.5	--	186	6.7	27.2	3.7
30...	1030	2.0	--	191	6.7	27.1	3.6
30...	1031	2.5	--	188	6.7	27.1	3.6

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998

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 FIELD (STAND- ARDS) UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
270235081592400 PEACE R. AT RIVER MILE 13.95 NR PT. CHARLOTTE, F (LAT 27 02 35N LONG 081 59 24W)							
OCT 1997							
29...	1021	.30	1.85	445	7.4	23.1	5.4
29...	1022	.50	--	445	7.3	23.1	5.3
29...	1023	1.0	--	446	7.3	23.1	5.3
29...	1024	1.5	--	446	7.3	23.0	5.3
NOV							
20...	1024	.30	2.55	109	6.7	19.1	5.7
20...	1025	.50	--	109	6.6	19.1	5.7
20...	1026	1.0	--	110	6.6	19.0	5.7
20...	1027	1.5	--	107	6.6	19.1	5.6
20...	1028	2.0	--	109	6.6	19.1	5.6
20...	1029	2.5	--	110	6.6	19.0	5.6
DEC							
17...	1058	.30	2.75	142	6.8	16.1	6.1
17...	1059	.50	--	141	6.8	16.1	6.1
17...	1100	1.0	--	141	6.7	16.1	6.1
17...	1101	1.5	--	141	6.7	16.1	6.2
17...	1102	2.0	--	141	6.7	16.1	6.2
17...	1103	2.5	--	142	6.7	16.1	6.1
JAN 1998							
22...	1209	.30	2.65	220	7.2	18.2	7.1
22...	1210	.50	--	221	7.2	18.2	7.1
22...	1211	1.0	--	221	7.2	18.2	7.1
22...	1212	1.5	--	221	7.1	18.2	7.1
22...	1213	2.0	--	221	7.1	18.2	7.1
22...	1214	2.5	--	221	7.1	18.2	7.1
FEB							
25...	1232	.30	2.15	132	6.7	19.4	5.6
25...	1233	.50	--	132	6.7	19.5	5.6
25...	1234	1.0	--	132	6.7	19.4	5.6
25...	1235	1.5	--	131	6.7	19.4	5.6
25...	1236	2.0	--	131	6.7	19.4	5.6
MAR							
25...	1155	.30	--	81	6.4	18.6	6.8
25...	1156	.50	--	81	6.4	18.6	6.7
25...	1157	1.0	--	82	6.4	18.6	6.7
25...	1158	1.5	--	80	6.4	18.6	6.7
25...	1159	2.0	--	81	6.4	18.5	6.7
25...	1200	2.5	--	81	6.5	18.5	6.7
APR							
22...	0920	.30	2.15	262	7.4	24.3	7.1
22...	0921	.50	--	262	7.4	24.3	7.0
22...	0922	1.0	--	262	7.4	24.1	6.9
22...	0923	1.5	--	262	7.3	24.1	6.8
22...	0924	2.0	--	262	7.3	24.1	6.8
MAY							
20...	1130	.30	2.85	527	7.5	28.7	--
20...	1131	.50	--	525	7.5	28.6	--
20...	1132	1.0	--	531	7.4	28.6	--
20...	1133	1.5	--	532	7.4	28.6	--
20...	1134	2.0	--	535	7.4	28.6	--
20...	1135	2.5	--	533	7.4	28.6	--
JUN							
25...	1000	.30	2.55	1790	7.0	30.6	3.5
25...	1001	.50	--	1800	7.0	30.6	3.4
25...	1002	1.0	--	1810	7.0	30.5	3.4
25...	1003	1.5	--	1800	7.0	30.5	3.3
25...	1004	2.0	--	1810	7.0	30.5	3.3
25...	1005	2.4	--	1800	7.0	30.5	3.2
JUL							
22...	1102	.30	2.05	452	7.1	27.9	4.2
22...	1103	.50	--	451	7.1	27.9	4.2
22...	1104	1.0	--	431	7.1	27.8	4.2
22...	1105	1.5	--	454	7.1	27.9	4.1
22...	1106	1.9	--	432	7.1	27.8	4.1

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
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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 NR PT. CHARLOTTE, F(LAT 27 02 35N LONG 081 59 24W)							
AUG							
20...	1018	.30	2.55	369	7.1	30.2	4.0
20...	1019	.50	--	368	7.1	30.2	4.0
20...	1020	1.0	--	374	7.1	30.2	3.9
20...	1021	1.5	--	375	7.1	30.2	3.9
20...	1022	2.0	--	374	7.1	30.2	3.9
20...	1023	2.4	--	375	7.1	30.2	3.8
SEP							
30...	1033	.30	2.55	187	6.7	27.4	3.8
30...	1034	.50	--	188	6.7	27.3	3.7
30...	1035	1.0	--	188	6.7	27.1	3.5
30...	1036	1.5	--	187	6.6	27.0	3.4
30...	1037	2.0	--	187	6.6	27.0	3.4
30...	1038	2.4	--	187	6.6	27.0	3.4

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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 FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DIS- SOLVED (MG/L) (00300)
270318081593100 PEACE R. AT RIVER MILE 14.82 NR FT. OGDEN, FL (LAT 27 03 18N LONG 081 59 31W)									
OCT 1997									
28...	1434	.30	3.75	579	7.3	24.4	2320	1.4	5.0
28...	1435	.50	--	580	7.3	24.5	--	--	5.0
28...	1436	1.0	--	583	7.3	24.5	--	--	5.0
28...	1437	1.5	--	581	7.3	24.3	--	--	4.9
28...	1438	2.0	--	582	7.3	24.3	--	--	4.9
28...	1439	2.5	--	587	7.3	24.2	--	--	4.9
28...	1440	3.0	--	584	7.3	24.2	--	--	4.8
28...	1441	3.5	--	584	7.3	24.2	--	--	4.8
29...	1030	.30	3.25	438	7.3	23.0	--	--	5.4
29...	1031	.50	--	438	7.3	23.1	--	--	5.4
29...	1032	1.0	--	439	7.3	23.0	--	--	5.4
29...	1033	1.5	--	438	7.3	23.0	--	--	5.3
29...	1034	2.0	--	439	7.3	22.8	--	--	5.2
29...	1035	2.5	--	454	7.3	22.8	--	--	5.2
29...	1036	3.0	--	463	7.3	22.7	--	--	5.2
NOV									
19...	1437	.30	2.75	97	6.4	19.5	977	1.0	6.0
19...	1438	.50	--	98	6.4	19.5	--	--	6.0
19...	1439	1.0	--	97	6.4	19.5	--	--	5.9
19...	1440	1.5	--	98	6.4	19.5	--	--	5.9
19...	1441	2.0	--	97	6.4	19.5	--	--	5.9
19...	1442	2.5	--	99	6.4	19.5	--	--	5.9
20...	1034	.30	4.25	109	6.6	19.1	--	--	5.6
20...	1035	.50	--	109	6.6	19.1	--	--	5.6
20...	1036	1.0	--	112	6.5	19.1	--	--	5.6
20...	1037	1.5	--	112	6.5	19.1	--	--	5.6
20...	1038	2.0	--	108	6.5	19.1	--	--	5.6
20...	1039	2.5	--	110	6.5	19.1	--	--	5.6
20...	1040	3.0	--	111	6.5	19.1	--	--	5.6
20...	1041	3.5	--	105	6.6	19.1	--	--	5.6
20...	1042	4.0	--	103	6.6	19.1	--	--	5.6
DEC									
16...	1506	.30	4.35	147	6.7	17.1	2150	.70	6.3
16...	1507	.50	--	148	6.7	17.1	--	--	6.3
16...	1508	1.0	--	150	6.7	17.1	--	--	6.3
16...	1509	1.5	--	146	6.7	17.1	--	--	6.3
16...	1510	2.0	--	152	6.7	17.1	--	--	6.3
16...	1511	2.5	--	149	6.7	17.1	--	--	6.2
16...	1512	3.0	--	148	6.7	17.1	--	--	6.2
16...	1513	3.5	--	157	6.7	17.1	--	--	6.2
16...	1514	4.0	--	158	6.7	17.1	--	--	6.2
17...	1105	.30	3.65	144	6.8	16.1	--	--	6.1
17...	1106	.50	--	145	6.7	16.1	--	--	6.0
17...	1107	1.0	--	145	6.7	16.1	--	--	6.0
17...	1108	1.5	--	145	6.7	16.1	--	--	6.0
17...	1109	2.0	--	145	6.7	16.1	--	--	6.0
17...	1110	2.5	--	145	6.6	16.1	--	--	6.0
17...	1111	3.0	--	144	6.6	16.1	--	--	6.1
17...	1112	3.5	--	144	6.6	16.1	--	--	6.1
JAN 1998									
21...	1549	.30	4.25	212	7.2	18.1	2050	.80	7.2
21...	1550	.50	--	208	7.2	18.2	--	--	7.2
21...	1551	1.0	--	221	7.1	18.2	--	--	7.2
21...	1552	1.5	--	213	7.1	18.2	--	--	7.2
21...	1553	2.0	--	218	7.1	18.2	--	--	7.1
21...	1554	2.5	--	215	7.1	18.2	--	--	7.1
21...	1555	3.0	--	218	7.1	18.2	--	--	7.1
21...	1556	3.5	--	217	7.1	18.2	--	--	7.1
21...	1557	4.0	--	216	7.1	18.2	--	--	7.1
22...	1215	.30	3.55	220	7.2	18.4	--	--	7.2
22...	1216	.50	--	220	7.1	18.4	--	--	7.1
22...	1217	1.0	--	223	7.1	18.3	--	--	7.1
22...	1218	1.5	--	217	7.1	18.2	--	--	7.1
22...	1219	2.0	--	220	7.1	18.2	--	--	7.1
22...	1220	2.5	--	219	7.1	18.2	--	--	7.1
22...	1221	3.0	--	219	7.1	18.2	--	--	7.1
22...	1222	3.4	--	222	7.1	18.2	--	--	7.1

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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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 R. AT RIVER MILE 14.82 NR FT. OGDEN, FL (LAT 27 03 18N LONG 081 59 31W)									
FEB									
24...	1722	.30	2.15	122	6.8	20.3	2140	1.0	5.2
24...	1723	.50	--	126	6.7	20.3	--	--	5.2
24...	1724	1.0	--	134	6.7	20.3	--	--	5.1
24...	1725	1.5	--	134	6.7	20.3	--	--	5.1
24...	1726	2.0	--	134	6.7	20.3	--	--	5.1
25...	1237	.30	4.45	132	6.7	19.4	--	--	5.7
25...	1238	.50	--	132	6.7	19.4	--	--	5.6
25...	1239	1.0	--	132	6.7	19.4	--	--	5.6
25...	1240	1.5	--	133	6.7	19.4	--	--	5.6
25...	1241	2.0	--	134	6.7	19.4	--	--	5.6
25...	1242	2.5	--	133	6.7	19.4	--	--	5.6
25...	1243	3.0	--	135	6.7	19.4	--	--	5.6
25...	1244	3.5	--	135	6.7	19.4	--	--	5.6
25...	1245	4.0	--	135	6.7	19.4	--	--	5.5
MAR									
24...	1608	.30	--	91	6.5	18.6	2140	1.1	6.4
25...	1201	.30	--	84	6.5	18.6	--	--	6.8
25...	1202	.50	--	84	6.5	18.6	--	--	6.7
25...	1203	1.0	--	84	6.5	18.6	--	--	6.7
25...	1204	1.5	--	83	6.5	18.5	--	--	6.7
25...	1205	2.0	--	82	6.5	18.5	--	--	6.7
25...	1206	2.5	--	81	6.5	18.5	--	--	6.7
25...	1207	3.0	--	79	6.5	18.5	--	--	6.7
APR 1998									
21...	1433	.30	4.15	266	7.6	25.2	830	1.3	7.6
21...	1434	.50	--	260	7.6	25.3	--	--	7.6
21...	1435	1.0	--	255	7.5	25.3	--	--	7.6
21...	1436	1.5	--	253	7.4	25.3	--	--	7.6
21...	1437	2.0	--	253	7.3	25.3	--	--	7.6
21...	1438	2.5	--	249	7.3	25.3	--	--	7.6
21...	1439	3.0	--	269	7.3	25.3	--	--	7.5
21...	1440	3.5	--	253	7.3	25.3	--	--	7.4
21...	1441	4.0	--	254	7.3	25.1	--	--	6.9
22...	0925	.30	4.55	262	7.4	24.2	--	--	6.9
22...	0926	.50	--	264	7.3	24.1	--	--	6.9
22...	0927	1.0	--	262	7.3	24.1	--	--	6.8
22...	0928	1.5	--	265	7.3	24.0	--	--	6.7
22...	0929	2.0	--	263	7.3	23.9	--	--	6.6
22...	0930	2.5	--	264	7.3	23.9	--	--	6.6
22...	0931	3.0	--	264	7.3	23.9	--	--	6.6
22...	0932	3.5	--	263	7.3	23.9	--	--	6.6
22...	0933	4.0	--	266	7.2	23.9	--	--	6.6
22...	0934	4.4	--	260	7.2	23.9	--	--	6.6
MAY									
19...	1431	.30	2.55	394	7.2	29.5	2170	1.2	--
19...	1432	.50	--	396	7.4	29.4	--	--	--
19...	1433	1.0	--	400	7.4	28.6	--	--	--
19...	1434	1.5	--	404	7.4	28.5	--	--	--
19...	1435	2.0	--	404	7.4	28.4	--	--	--
19...	1436	2.4	--	406	7.4	28.4	--	--	--
20...	1136	.30	3.95	412	7.5	28.6	--	--	--
20...	1137	.50	--	413	7.5	28.5	--	--	--
20...	1138	1.0	--	409	7.5	28.5	--	--	--
20...	1139	1.5	--	410	7.5	28.5	--	--	--
20...	1140	2.0	--	410	7.4	28.3	--	--	--
20...	1141	2.5	--	411	7.4	28.2	--	--	--
20...	1142	3.0	--	414	7.4	28.2	--	--	--
20...	1143	3.5	--	417	7.4	28.2	--	--	--

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998

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 R. AT RIVER MILE 14.82 NR FT. OGDEN, FL (LAT 27 03 18N LONG 081 59 31W)									
JUN									
24...	1410	.30	4.25	3050	7.2	32.5	2180	1.9	5.0
24...	1411	.50	--	3150	7.2	32.5	--	--	4.9
24...	1412	1.0	--	3310	7.2	32.4	--	--	4.9
24...	1413	1.5	--	3490	7.2	32.4	--	--	4.9
24...	1414	2.0	--	3500	7.2	32.5	--	--	5.0
24...	1416	2.5	--	3690	7.2	32.5	--	--	5.0
24...	1417	3.0	--	3890	7.2	32.5	--	--	5.0
24...	1418	3.5	--	3880	7.2	32.5	--	--	5.0
24...	1419	4.0	--	3900	7.1	32.5	--	--	4.9
25...	1006	.30	4.25	1090	7.1	30.5	--	--	3.7
25...	1007	.50	--	1090	7.1	30.5	--	--	3.5
25...	1008	1.0	--	1100	7.1	30.4	--	--	3.4
25...	1009	1.5	--	1100	7.1	30.4	--	--	3.3
25...	1010	2.0	--	1090	7.1	30.4	--	--	3.3
25...	1011	2.5	--	1100	7.1	30.4	--	--	3.3
25...	1012	3.0	--	1100	7.1	30.4	--	--	3.2
25...	1013	3.5	--	1090	7.1	30.4	--	--	3.2
25...	1014	4.0	--	1100	7.1	30.4	--	--	3.2
JUL									
21...	1351	.30	4.65	441	7.2	29.6	3200	1.7	4.7
21...	1352	.50	--	439	7.2	29.5	--	--	4.5
21...	1353	1.0	--	453	7.2	29.0	--	--	4.4
21...	1354	1.5	--	450	7.2	28.9	--	--	4.4
21...	1355	2.0	--	437	7.1	28.8	--	--	4.3
21...	1356	2.5	--	442	7.1	28.7	--	--	4.3
21...	1357	3.0	--	444	7.1	28.6	--	--	4.2
21...	1358	3.5	--	447	7.1	28.6	--	--	4.2
21...	1359	4.0	--	453	7.1	28.6	--	--	4.2
21...	1400	4.5	--	448	7.1	28.5	--	--	4.1
22...	1110	.30	2.85	457	7.2	28.1	--	--	4.4
22...	1111	.50	--	456	7.2	28.1	--	--	4.4
22...	1112	1.0	--	457	7.2	28.1	--	--	4.4
22...	1113	1.5	--	458	7.2	28.0	--	--	4.4
22...	1114	2.0	--	458	7.2	28.0	--	--	4.4
22...	1115	2.5	--	458	7.2	28.0	--	--	4.3
AUG									
19...	1607	.30	4.35	353	7.3	30.8	310	1.1	4.8
19...	1608	.50	--	357	7.3	30.9	--	--	4.7
19...	1609	1.0	--	355	7.3	30.8	--	--	4.7
19...	1610	1.5	--	340	7.3	30.8	--	--	4.6
19...	1611	2.0	--	349	7.3	30.8	--	--	4.5
19...	1612	2.5	--	344	7.3	30.7	--	--	4.4
19...	1613	3.0	--	355	7.3	30.7	--	--	4.3
19...	1614	3.5	--	342	7.3	30.6	--	--	4.3
19...	1615	4.0	--	351	7.3	30.6	--	--	4.2
20...	1024	.30	4.15	373	7.2	30.5	--	--	4.2
20...	1025	.50	--	383	7.2	30.4	--	--	4.2
20...	1026	1.0	--	376	7.2	30.2	--	--	4.1
20...	1027	1.5	--	368	7.2	30.1	--	--	4.1
20...	1028	2.0	--	372	7.2	30.0	--	--	4.1
20...	1029	2.5	--	378	7.1	30.0	--	--	4.1
20...	1030	3.0	--	360	7.1	29.9	--	--	4.1
20...	1031	3.5	--	362	7.1	29.9	--	--	4.0
20...	1032	4.0	--	360	7.1	29.9	--	--	4.0
SEP 1998									
29...	1400	.30	3.66	202	6.5	27.6	2530	.8	4.4
29...	1401	.50	--	199	6.5	27.6	--	--	4.3
29...	1402	1.0	--	195	6.5	27.6	--	--	4.1
29...	1403	1.5	--	190	6.5	27.6	--	--	4.0
29...	1404	2.0	--	204	6.4	27.6	--	--	4.0
29...	1405	2.5	--	198	6.4	27.6	--	--	4.0
29...	1406	3.0	--	206	6.4	27.5	--	--	3.9
29...	1407	3.5	--	187	6.5	27.5	--	--	3.9
30...	1102	.30	4.25	184	6.6	27.2	--	--	3.6
30...	1103	.50	--	185	6.6	27.2	--	--	3.6
30...	1104	1.0	--	187	6.5	27.2	--	--	3.5
30...	1105	1.5	--	188	6.5	27.1	--	--	3.5
30...	1106	2.0	--	185	6.5	27.1	--	--	3.5
30...	1107	2.5	--	188	6.6	27.1	--	--	3.5
30...	1108	3.0	--	185	6.5	27.1	--	--	3.4
30...	1109	3.5	--	189	6.5	27.1	--	--	3.4
30...	1110	4.0	--	189	6.5	27.1	--	--	3.3

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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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)
270337081595800 PEACE R. AT RIVER MILE 15.45 NR PT. CHARLOTTE, F(LAT 27 03 37N LONG 081 59 58W)									
OCT 1997									
29...	1040	.30	1.55	437	7.4	23.3	--	--	5.8
29...	1041	.50	--	438	7.4	23.1	--	--	5.7
29...	1042	1.0	--	439	7.4	23.0	--	--	5.7
29...	1043	1.4	--	437	7.3	23.0	--	--	5.7
NOV									
20...	1044	.30	2.05	109	6.7	19.1	--	--	5.9
20...	1045	.50	--	107	6.6	19.1	--	--	5.9
20...	1046	1.0	--	107	6.6	19.1	--	--	5.9
20...	1047	1.5	--	109	6.6	19.1	--	--	5.8
20...	1048	1.9	--	109	6.6	19.1	--	--	5.8
DEC									
17...	1114	.30	1.75	138	6.6	16.1	--	--	6.4
17...	1115	.50	--	139	6.6	16.1	--	--	6.4
17...	1116	1.0	--	139	6.6	16.1	--	--	6.3
17...	1117	1.5	--	138	6.6	16.1	--	--	6.3
JAN 1998									
22...	1223	.30	2.05	223	7.2	18.4	--	--	7.1
22...	1224	.50	--	225	7.1	18.3	--	--	7.2
22...	1225	1.0	--	223	7.1	18.3	--	--	7.2
22...	1226	1.5	--	216	7.1	18.3	--	--	7.1
22...	1227	1.9	--	220	7.1	18.3	--	--	7.1
FEB									
25...	1246	.30	1.95	130	6.7	19.4	--	--	5.8
25...	1247	.50	--	131	6.7	19.4	--	--	5.8
25...	1248	1.0	--	130	6.7	19.4	--	--	5.8
25...	1249	1.5	--	130	6.7	19.4	--	--	5.8
MAR									
25...	1224	.30	--	73	6.4	18.5	--	--	6.9
25...	1225	.50	--	76	6.4	18.4	--	--	6.9
25...	1226	1.0	--	75	6.4	18.4	--	--	6.8
25...	1227	1.5	--	74	6.3	18.4	--	--	6.8
25...	1228	2.0	--	72	6.3	18.4	--	--	6.8
25...	1229	2.5	--	78	6.4	18.4	--	--	6.8
APR									
22...	0935	.30	3.35	266	7.3	24.1	--	--	7.0
22...	0936	.50	--	266	7.3	24.1	--	--	7.0
22...	0937	1.0	--	265	7.3	24.0	--	--	6.9
22...	0938	1.5	--	274	7.3	24.0	--	--	6.8
22...	0939	2.0	--	273	7.3	23.9	--	--	6.8
22...	0940	2.5	--	268	7.3	23.9	--	--	6.8
22...	0941	3.0	--	273	7.3	23.9	--	--	6.6
MAY									
20...	1144	.30	1.15	363	7.6	28.4	--	--	--
20...	1145	.50	--	364	7.6	28.3	--	--	--
20...	1146	1.0	--	365	7.5	28.2	--	--	--
JUN									
25...	1015	.30	1.25	747	7.1	30.6	--	--	3.5
25...	1016	.50	--	747	7.1	30.5	--	--	3.5
25...	1017	1.0	--	752	7.1	30.5	--	--	3.4
JUL									
22...	1116	.30	1.85	452	7.2	28.3	--	--	4.6
22...	1117	.50	--	458	7.2	28.3	--	--	4.6
22...	1118	1.0	--	468	7.2	28.1	--	--	4.5
22...	1119	1.5	--	476	7.2	28.1	--	--	4.4
AUG									
20...	1033	.30	1.25	366	7.2	30.4	--	--	4.5
20...	1034	.50	--	362	7.2	30.3	--	--	4.5
20...	1035	1.0	--	363	7.2	30.3	--	--	4.5
SEP									
30...	1115	.30	1.95	187	6.6	27.2	--	--	3.7
30...	1116	.50	--	182	6.6	27.3	--	--	3.7
30...	1117	1.0	--	186	6.6	27.2	--	--	3.6
30...	1118	1.5	--	187	6.6	27.2	--	--	3.6

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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 R. AT RIVER MILE 16.29 NR FT. OGDEN, FL (LAT 27 04 18N LONG 082 00 16W)							
OCT 1997							
29...	1047	.30	.85	441	7.4	23.2	6.1
29...	1048	.50	--	442	7.4	23.1	6.0
NOV							
20...	1050	.30	2.25	108	6.7	19.1	5.9
20...	1051	.50	--	107	6.6	19.1	5.9
20...	1052	1.0	--	106	6.6	19.1	5.9
20...	1053	1.5	--	108	6.6	19.1	5.8
20...	1054	2.0	--	107	6.6	19.1	5.8
DEC							
17...	1140	.30	1.65	136	6.6	16.1	6.4
17...	1141	.50	--	137	6.6	16.1	6.3
17...	1142	1.0	--	137	6.6	16.1	6.3
17...	1143	1.5	--	137	6.6	16.1	6.3
JAN 1998							
22...	1233	.30	1.35	220	7.2	18.4	7.2
22...	1234	.50	--	222	7.2	18.3	7.2
22...	1235	1.0	--	217	7.1	18.3	7.2
22...	1236	1.2	--	218	7.1	18.3	7.2
FEB							
25...	1250	.30	2.15	128	6.7	19.3	5.9
25...	1251	.50	--	130	6.7	19.3	5.8
25...	1252	1.0	--	129	6.7	19.3	5.8
25...	1253	1.5	--	128	6.7	19.3	5.8
25...	1254	2.0	--	128	6.7	19.3	5.8
APR							
22...	0942	.30	.95	269	7.4	24.1	7.1
22...	0943	.50	--	268	7.3	24.1	7.1
MAY							
20...	1147	.30	1.35	355	7.9	28.8	--
20...	1148	.50	--	362	7.9	28.4	--
20...	1149	1.0	--	360	7.8	28.4	--
JUN							
25...	1018	.30	1.15	559	7.2	30.6	4.0
25...	1019	.50	--	558	7.2	30.6	4.0
25...	1020	1.0	--	559	7.2	30.6	3.9
JUL							
22...	1123	.30	1.35	465	7.3	28.2	5.0
22...	1124	.50	--	467	7.3	28.3	5.0
22...	1125	1.0	--	480	7.3	28.2	5.0
AUG							
20...	1039	.30	1.15	363	7.3	30.9	5.2
20...	1040	.50	--	379	7.2	30.4	4.9
20...	1041	1.0	--	356	7.2	30.3	4.8
SEP							
30...	1123	.30	1.65	185	6.6	27.2	3.7
30...	1124	.50	--	184	6.6	27.2	3.6
30...	1125	1.0	--	187	6.6	27.1	3.6
30...	1126	1.5	--	188	6.5	27.2	3.6

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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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)
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270451081595100 PEACE R. AT RIVER MILE 18.25 NR FT. OGDEN, FL (LAT 27 04 51N LONG 081 59 51W)

OCT 1997

29...	1120	.30	2.45	449	7.6	22.9	6.5
29...	1121	.50	--	454	7.5	22.9	6.5
29...	1122	1.0	--	453	7.5	22.8	6.5
29...	1123	1.5	--	451	7.5	22.7	6.4
29...	1124	2.0	--	449	7.4	22.6	6.4

NOV

20...	1116	.30	4.95	113	6.8	19.1	5.9
20...	1117	.50	--	112	6.7	19.1	5.9
20...	1118	1.0	--	117	6.7	19.1	5.9
20...	1119	1.5	--	115	6.7	19.1	5.9
20...	1120	2.0	--	114	6.6	19.1	5.9
20...	1121	2.5	--	114	6.6	19.1	5.9
20...	1122	3.0	--	107	6.6	19.1	5.8
20...	1123	3.5	--	111	6.6	19.1	5.8
20...	1124	4.0	--	105	6.6	19.1	5.9
20...	1125	4.5	--	109	6.6	19.1	5.9

DEC

17...	1149	.30	4.65	142	6.6	16.2	6.4
17...	1150	.50	--	141	6.6	16.2	6.3
17...	1151	1.0	--	140	6.6	16.2	6.4
17...	1152	1.5	--	140	6.6	16.2	6.4
17...	1153	2.0	--	140	6.6	16.1	6.4
17...	1154	2.5	--	140	6.6	16.2	6.4
17...	1155	3.0	--	139	6.6	16.1	6.4
17...	1156	3.5	--	139	6.6	16.1	6.4
17...	1157	4.0	--	138	6.6	16.1	6.4
17...	1158	4.5	--	138	6.6	16.1	6.4

JAN 1998

22...	1249	.30	4.15	222	7.1	18.4	7.2
22...	1250	.50	--	218	7.1	18.3	7.2
22...	1251	1.0	--	219	7.1	18.4	7.2
22...	1252	1.5	--	216	7.1	18.4	7.2
22...	1253	2.0	--	222	7.1	18.4	7.2
22...	1254	2.5	--	216	7.1	18.3	7.2
22...	1255	3.0	--	222	7.1	18.4	7.2
22...	1256	3.5	--	225	7.1	18.4	7.2

FEB

25...	1304	.30	4.25	132	6.7	19.3	5.9
25...	1305	.50	--	132	6.7	19.3	5.8
25...	1306	1.0	--	134	6.7	19.3	5.8
25...	1307	1.5	--	134	6.7	19.3	5.8
25...	1308	2.0	--	135	6.7	19.3	5.8
25...	1309	2.5	--	131	6.7	19.3	5.8
25...	1310	3.0	--	135	6.7	19.3	5.8
25...	1311	3.5	--	135	6.7	19.3	5.8
25...	1312	4.0	--	135	6.7	19.3	5.8

MAR

25...	1240	.30	--	88	6.5	18.6	7.1
25...	1241	.50	--	88	6.5	18.5	6.8
25...	1242	1.0	--	86	6.5	18.5	6.7
25...	1243	1.5	--	85	6.5	18.5	6.7
25...	1244	2.0	--	87	6.5	18.5	6.7
25...	1245	2.5	--	84	6.5	18.5	6.7
25...	1246	3.0	--	86	6.5	18.5	6.7

APR

22...	1004	.30	1.45	281	7.3	23.9	6.9
22...	1005	.50	--	276	7.3	23.9	6.9
22...	1006	1.0	--	277	7.3	23.6	6.8
22...	1007	1.3	--	282	7.3	23.6	6.8

MAY

20...	1210	.30	2.60	355	8.7	28.9	--
20...	1211	.50	--	355	8.7	28.8	--
20...	1212	1.0	--	359	8.6	28.6	--
20...	1213	1.5	--	356	8.6	28.5	--
20...	1214	2.0	--	357	8.6	28.5	--
20...	1215	2.5	--	356	8.5	28.5	--

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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 NR FT. QGDEN, FL (LAT 27 04 51N LONG 081 59 51W)							
JUN 1998							
25...	1047	.30	3.85	492	7.4	30.9	4.9
25...	1048	.50	--	490	7.3	30.8	4.9
25...	1049	1.0	--	488	7.3	30.8	4.8
25...	1050	1.5	--	490	7.3	30.9	4.8
25...	1051	2.0	--	490	7.3	30.7	4.8
25...	1052	2.5	--	487	7.3	30.8	4.8
25...	1053	3.0	--	489	7.3	30.7	4.8
25...	1054	3.5	--	483	7.3	30.7	4.8
JUL							
22...	1151	.30	3.45	471	7.3	28.3	5.2
22...	1152	.50	--	487	7.3	28.1	5.2
22...	1153	1.0	--	474	7.3	28.1	5.2
22...	1154	1.5	--	487	7.3	28.1	5.1
22...	1155	2.0	--	487	7.3	28.1	5.2
22...	1156	2.5	--	485	7.3	28.0	5.1
22...	1157	3.0	--	486	7.3	28.0	5.1
AUG							
20...	1106	.30	3.55	372	7.3	30.2	5.5
20...	1107	.50	--	371	7.3	30.2	5.4
20...	1108	1.0	--	359	7.3	30.2	5.4
20...	1109	1.5	--	361	7.3	30.2	5.4
20...	1110	2.0	--	374	7.3	30.1	5.4
20...	1111	2.5	--	367	7.3	30.1	5.3
20...	1112	3.0	--	360	7.3	30.0	5.3
20...	1113	3.4	--	356	7.3	30.0	5.3
SEP							
30...	1152	.30	4.45	189	6.7	27.2	3.8
30...	1153	.50	--	188	6.6	27.2	3.7
30...	1154	1.0	--	184	6.6	27.2	3.7
30...	1155	2.0	--	184	6.6	27.2	3.7
30...	1156	4.3	--	184	6.6	27.2	3.8

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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DATE	TIME	SAM- PLING DEPTH (M) (000098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
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270537081585800 PEACE R. AT RIVER MILE 19.5 NR FT. OGDEN, FL (LAT 27 05 37N LONG 081 58 58W)

OCT 1997

29...	1140	.30	3.65	453	7.6	22.2	7.1
29...	1141	.50	--	453	7.5	22.1	7.0
29...	1142	1.0	--	454	7.5	22.1	7.0
29...	1143	1.5	--	453	7.5	22.1	7.0
29...	1144	2.0	--	453	7.5	22.0	7.0
29...	1145	2.5	--	455	7.5	22.0	7.0
29...	1146	3.0	--	455	7.5	22.0	7.0
29...	1147	3.5	--	455	7.5	22.0	7.0

NOV

20...	1132	.30	3.35	116	6.8	19.1	6.0
20...	1133	.50	--	117	6.8	19.1	6.0
20...	1134	1.0	--	118	6.7	19.1	5.9
20...	1135	1.5	--	116	6.7	19.1	5.9
20...	1136	2.0	--	113	6.7	19.1	5.9
20...	1137	2.5	--	112	6.6	19.1	5.9
20...	1138	3.0	--	114	6.6	19.1	5.9

JAN 1998

22...	1306	.30	1.45	218	7.2	18.4	7.3
22...	1307	.50	--	218	7.1	18.4	7.3
22...	1308	1.0	--	218	7.1	18.4	7.3
22...	1309	1.3	--	217	7.1	18.4	7.3

FEB

25...	1322	.30	5.15	139	6.8	19.4	5.9
25...	1323	.50	--	141	6.8	19.4	5.9
25...	1324	1.0	--	141	6.8	19.4	5.9
25...	1325	1.5	--	139	6.8	19.4	5.9
25...	1326	2.0	--	139	6.8	19.3	5.9
25...	1327	2.5	--	142	6.8	19.3	5.8
25...	1328	3.0	--	143	6.7	19.3	5.8
25...	1329	3.5	--	137	6.7	19.3	5.8
25...	1330	4.0	--	142	6.7	19.3	5.8
25...	1331	4.5	--	140	6.7	19.3	5.8
25...	1332	5.0	--	137	6.7	19.3	5.8

APR

22...	1016	.30	2.75	278	7.4	23.7	7.0
22...	1017	.50	--	278	7.4	23.7	7.0
22...	1018	1.0	--	278	7.2	23.7	7.0
22...	1020	1.5	--	278	7.2	23.7	7.0
22...	1021	2.0	--	278	7.2	23.7	7.0
22...	1022	2.5	--	278	7.2	23.7	7.0

MAY

20...	1225	.30	2.95	360	8.9	29.5	--
20...	1226	.50	--	356	8.9	29.4	--
20...	1227	1.0	--	359	8.8	28.7	--
20...	1228	1.5	--	360	8.7	28.4	--
20...	1229	2.0	--	361	8.7	28.4	--
20...	1230	2.5	--	363	8.7	28.3	--
20...	1231	2.8	--	359	8.6	28.3	--

JUN

25...	1100	.30	1.65	506	7.5	31.0	5.5
25...	1101	.50	--	512	7.5	31.0	5.4
25...	1102	1.0	--	508	7.5	30.9	5.4
25...	1103	1.5	--	513	7.5	30.9	5.4

JUL

22...	1207	.30	3.15	475	7.4	28.3	5.6
22...	1208	.50	--	473	7.4	28.3	5.5
22...	1209	1.0	--	469	7.4	28.3	5.5
22...	1210	1.5	--	472	7.4	28.3	5.5
22...	1211	2.0	--	470	7.4	28.3	5.5
22...	1212	2.5	--	474	7.4	28.3	5.5
22...	1213	3.0	--	487	7.4	28.3	5.5

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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)
270537081585800 PEACE R. AT RIVER MILE 19.5 NR FT. OGDEN, FL (LAT 27 05 37N LONG 081 58 58W)							
AUG							
20...	1122	.30	3.65	365	7.4	30.1	5.7
20...	1123	.50	--	377	7.4	30.2	5.7
20...	1124	1.0	--	357	7.3	30.0	5.7
20...	1125	1.5	--	362	7.3	29.6	5.7
20...	1126	2.0	--	380	7.3	29.6	5.6
20...	1127	2.5	--	368	7.3	29.6	5.6
20...	1128	3.0	--	361	7.3	29.6	5.6
20...	1129	3.5	--	380	7.3	29.6	5.6
SEP							
30...	1215	.30	3.85	195	6.7	27.3	4.0
30...	1216	.50	--	194	6.7	27.2	3.9
30...	1217	1.0	--	187	6.7	27.3	3.9
30...	1218	1.5	--	201	6.6	27.2	3.8
30...	1219	2.0	--	186	6.6	27.2	3.8
30...	1220	2.5	--	187	6.7	27.2	3.8
30...	1221	3.7	--	192	6.7	27.2	3.9

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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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- PENDE (MG/L) (00530)	RESIDUE VOLA- TILE, SUS- PENDE (MG/L) (00535)
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LABORATORY ANALYSES

02297330 PEACE RIVER AT FT. OGDEN, FL (LAT 27 05 17N LONG 081 59 39W)

OCT 1997									
28...	1530	.30	2.05	100	2.7	35	8.7	2	1
28...	1610	1.8	2.05	120	2.2	35	8.2	3	<1
NOV									
19...	1620	.30	3.05	160	3.4	8.8	2.9	5	3
19...	1645	2.8	3.05	160	3.3	8.8	2.9	5	2
DEC									
16...	1650	.30	E3.50	240	3.3	16	4.5	4	2
16...	1705	3.0	E3.50	240	3.2	15	4.5	3	2
JAN 1998									
21...	1645	.30	3.35	240	3.0	20	4.1	<1	<1
21...	1725	3.0	3.35	200	3.1	20	4.1	1	1
FEB									
24...	1745	.30	2.45	200	1.2	12	2.7	2	1
24...	1810	2.2	2.45	200	1.5	12	2.8	3	2
MAR									
24...	1730	.30	E2.00	200	5.0	7.3	1.8	7	3
24...	1735	E1.7	E2.00	200	4.8	7.2	1.9	5	2
APR									
21...	1615	.30	2.15	120	8.0	19	4.5	16	8
21...	1635	1.9	2.15	120	10	20	4.4	22	18
MAY									
19...	1620	.30	2.75	60	4.7	27	5.1	7	5
19...	1650	2.5	2.75	60	7.9	28	5.0	9	5
JUN									
24...	1525	.30	1.55	40	3.2	47	1.2	11	3
24...	1545	1.3	1.55	40	5.9	49	1.2	10	4
JUL									
21...	1600	.30	2.15	100	2.6	39	7.3	5	4
21...	1615	1.9	2.15	100	3.4	41	7.3	5	4
AUG									
19...	1740	.30	2.45	160	4.0	28	6.2	6	1
19...	1800	2.2	2.45	160	5.4	27	6.2	9	3
SEP									
29...	1525	.30	3.65	320	2.4	15	7.1	4	3
29...	1650	3.3	3.65	320	2.6	15	7.0	4	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 P) (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)
OCT 1997									
28...	<.010	.690	.060	.82	.920	.640	14	13	20
28...	<.010	.700	.070	.71	.880	.640	13	13	20
NOV									
19...	<.010	.290	.030	1.2	.570	.520	15	14	4.2
19...	<.010	.290	.040	.80	.580	.520	15	15	4.2
DEC									
16...	<.010	.500	.060	1.0	.580	.500	21	21	4.9
16...	<.010	.470	.070	1.1	.610	.520	22	21	5.5
JAN 1998									
21...	.014	.390	.030	1.3	.560	.540	18	17	8.6
21...	.014	.380	.030	1.2	.560	.530	17	17	8.7
FEB									
24...	<.010	.240	.030	.79	.600	.560	14	13	5.1
24...	<.010	.240	.030	.75	.600	.560	14	13	5.4
MAR									
24...	.013	.400	.060	.92	.510	.440	13	12	2.1
24...	.013	.410	.070	.90	.560	.450	13	13	2.4
APR									
21...	<.010	.420	.020	1.3	1.00	.720	15	15	12
21...	<.010	.410	.020	1.4	1.10	.720	16	15	13
MAY									
19...	.010	<.020	.020	1.1	1.00	.850	15	13	18
19...	.010	<.020	.030	1.3	1.00	.840	14	13	18
JUN									
24...	.010	.120	.020	.87	.870	.800	11	11	16
24...	<.010	.120	.020	.76	.880	.820	11	11	16
JUL									
21...	.033	1.00	.070	.93	.760	.660	17	17	16
21...	.032	1.10	.080	.98	.780	.670	17	16	16
AUG									
19...	.015	.660	.060	1.1	.820	.700	17	17	14
19...	.015	.630	.060	.95	.810	.720	18	17	14
SEP									
29...	.020	.320	.050	1.5	.760	.710	16	16	8.7
29...	.020	.320	.050	1.5	.770	.710	16	16	9.1

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998

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- PENDE (MG/L) (00530)	RESIDUE VOLA- TILE, SUS- PENDE (MG/L) (00535)
265355082075500 UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA, F(LAT 26 53 55N LONG 082 07 55W)									
OCT 1997									
28...	1045	.30	3.85	40	2.7	12000	1.5	11	4
28...	1110	3.5	3.85	40	2.4	12000	1.5	11	4
NOV									
19...	1045	.30	3.65	40	1.7	11000	1.3	16	7
19...	1120	3.3	3.65	40	2.7	12000	1.3	11	4
DEC									
16...	1055	.30	3.75	80	3.5	7000	3.7	4	1
16...	1115	3.5	3.75	100	3.0	6800	3.8	10	4
JAN 1998									
21...	1150	.30	3.75	120	1.7	6000	3.6	7	6
21...	1230	3.5	3.75	80	1.6	8700	3.3	3	3
FEB									
24...	1130	.30	3.75	120	3.8	2900	2.5	8	4
24...	1145	3.5	3.75	120	5.1	5000	2.4	10	4
MAR									
24...	1100	.30	3.75	120	10	5500	.70	24	14
24...	1120	3.5	3.75	80	5.4	8200	.60	23	7
APR									
21...	1000	.30	3.85	80	1.2	5000	1.9	36	22
21...	1025	3.5	3.85	70	1.0	6200	1.7	20	10
MAY									
19...	1045	.30	4.05	40	1.2	9400	3.0	21	4
19...	1100	3.8	4.05	30	<1.0	11000	2.4	23	10
JUN									
24...	1005	.30	4.15	20	<1.0	12000	.20	26	6
24...	1045	3.8	4.15	20	1.3	13000	.40	30	6
JUL									
21...	0950	.30	4.25	20	.51	11000	.070	23	8
21...	1015	4.0	4.25	20	1.2	13000	.90	31	9
AUG									
19...	1010	.30	4.05	20	.60	11000	.90	29	9
19...	1025	3.8	4.05	20	1.4	12000	1.5	27	7
SEP									
29...	0945	.30	4.15	100	2.7	6500	3.8	18	4
29...	1005	3.8	4.15	100	2.4	6400	3.9	19	6
265640082033500 PEACE R. AT RIVER MILE 3.95 NR PUNTA GORDA, FL (LAT 26 56 40N LONG 082 03 35W)									
OCT 1997									
28...	1200	.30	2.75	70	3.4	8200	3.6	12	4
28...	1230	2.5	2.75	40	6.2	8600	3.4	19	6
NOV									
19...	1200	.30	2.75	160	5.4	600	2.5	10	4
19...	1230	2.5	2.75	60	5.3	9100	2.1	16	6
DEC									
16...	1230	.30	2.25	200	18	29	4.6	36	12
16...	1250	2.0	2.25	200	14	30	4.6	26	8
JAN 1998									
21...	1305	.30	3.05	240	2.8	980	4.2	4	4
21...	1330	2.8	3.05	80	3.2	8000	3.1	7	4
FEB									
24...	1255	.30	2.75	200	4.0	23	2.5	5	3
24...	1310	2.5	2.75	200	3.4	25	2.5	6	3
MAR									
24...	1220	.30	3.05	160	8.9	28	1.8	9	3
24...	1240	2.8	3.05	120	6.1	4000	1.2	16	6
APR									
21...	1130	2.8	3.15	100	3.6	3700	2.2	20	10
21...	1150	.30	3.15	100	2.9	3100	2.1	24	8
MAY									
19...	1200	2.8	3.05	50	<1.0	8500	3.4	35	15
19...	1215	.30	3.05	50	<1.0	7800	3.2	26	8
JUN									
24...	1130	.30	3.45	30	<1.0	8800	.20	27	5
24...	1150	3.2	3.45	20	1.2	11000	1.1	33	8
JUL									
21...	1110	.30	3.65	50	1.0	7100	2.2	18	8
21...	1125	3.3	3.65	30	2.0	11000	1.5	28	9
AUG									
19...	1120	.30	3.15	50	.78	7700	3.1	20	7
19...	1145	2.8	3.15	30	1.8	11000	2.4	37	8
SEP									
29...	1110	.30	3.25	320	3.2	210	7.3	5	4
29...	1130	3.0	3.25	240	4.9	4700	5.9	18	5

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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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, F (LAT 26 53 55N LONG 082 07 55W)

OCT 1997									
28...	.010	<.020	.080	.73	.210	.110	7.5	7.2	22
28...	.010	<.020	.080	.71	.200	.110	7.2	7.2	22
NOV									
19...	.012	.040	.040	.90	.190	.130	9.0	8.7	21
19...	.012	.040	.050	.68	.170	.120	6.9	6.8	22
DEC									
16...	.012	.160	.160	.83	.250	.240	11	11	17
16...	.012	.160	.170	.91	.260	.250	13	12	16
JAN 1998									
21...	.018	.220	.060	.97	.260	.260	9.7	9.4	18
21...	.018	.180	.070	.65	.230	.240	7.8	7.6	19
FEB									
24...	<.010	.180	.050	.74	.340	.300	10	10	10
24...	<.010	.160	.040	.70	.290	.240	8.9	8.4	14
MAR									
24...	<.010	<.020	.110	1.7	.410	.270	11	10	18
24...	<.010	<.020	.030	.71	.280	.200	8.7	8.4	20
APR									
21...	<.010	<.020	.050	1.8	.490	.390	12	11	20
21...	<.010	<.020	.020	.70	.320	.250	10	10	18
MAY									
19...	.013	<.020	.030	.54	.270	.260	8.8	8.3	23
19...	.015	<.020	.060	.82	.230	.220	7.9	7.2	24
JUN									
24...	.010	<.020	.030	.58	.300	.290	7.6	7.5	23
24...	.010	<.020	.030	.54	.230	.210	6.7	6.3	25
JUL									
21...	.010	<.020	.050	.34	.190	.200	7.1	6.8	21
21...	.010	<.020	.060	.56	.180	.180	6.6	6.0	23
AUG									
19...	.010	<.020	.020	.64	.190	.190	7.9	7.8	22
19...	.010	<.020	.020	.65	.170	.170	6.2	6.1	24
SEP									
29...	.031	.110	.100	.89	.190	.180	6.1	5.7	23
29...	.030	.100	.100	.88	.190	.190	5.4	5.3	23

265640082033500 PEACE R. AT RIVER MILE 3.95 NR PUNTA GORDA, FL (LAT 26 56 40N LONG 082 03 35W)

OCT 1997									
28...	.014	.130	.120	.88	.300	.210	11	10	20
28...	.015	.120	.130	.92	.260	.210	10	10	20
NOV									
19...	<.010	.230	.050	.87	.540	.450	16	13	4.7
19...	.014	.080	.190	1.1	.270	.190	8.6	8.0	21
DEC									
16...	<.010	.440	.070	1.6	.860	.500	21	20	5.9
16...	<.010	.430	.080	1.4	.840	.500	20	20	5.4
JAN 1998									
21...	.016	.380	.050	1.1	.500	.480	16	16	9.6
21...	.018	.220	.130	.83	.320	.250	7.3	7.0	20
FEB									
24...	<.010	.180	.020	.73	.530	.490	12	12	3.6
24...	<.010	.190	.020	.75	.550	.490	12	12	3.6
MAR									
24...	.010	.350	.040	1.1	.600	.400	13	12	2.5
24...	<.010	.180	.080	.83	.430	.310	9.7	9.0	18
APR									
21...	.010	<.020	.080	.89	.530	.420	12	12	17
21...	.010	<.020	.040	.88	.560	.470	12	12	16
MAY									
19...	.014	<.020	.040	.81	.430	.390	9.6	9.3	24
19...	.013	<.020	.040	.80	.420	.410	11	9.7	23
JUN									
24...	.010	<.020	<.010	.70	.420	.400	9.1	8.8	21
24...	.010	<.020	.030	.65	.420	.360	8.1	7.5	24
JUL									
21...	.020	.190	.060	.74	.330	.310	10	9.1	20
21...	.014	.050	.160	.64	.300	.280	7.4	7.3	23
AUG									
19...	.010	.020	.010	.72	.340	.320	9.5	9.4	20
19...	.011	<.020	.090	.96	.240	.230	7.5	6.9	23
SEP									
29...	.020	.260	.070	1.4	.650	.640	15	14	12
29...	.033	.170	.330	1.3	.460	.410	7.9	7.1	23

**MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1997 TO SEPTEMBER 1998**

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- PENDE (MG/L) (00530)	RESIDUE VOLA- TILE, SUS- PENDE (MG/L) (00535)
270318081593100 PEACE R. AT RIVER MILE 14.82 NR FT. OGDEN, FL (LAT 27 03 18N LONG 081 59 31W)									
OCT 1997									
28...	1442	.30	3.75	120	2.5	83	9.1	4	4
28...	1500	3.5	3.75	140	3.0	89	9.0	4	<1
NOV									
19...	1430	.30	2.75	160	4.1	8.3	2.5	6	3
19...	1505	2.5	2.75	200	4.8	8.4	2.7	9	3
DEC									
16...	1457	.30	4.35	200	4.0	15	4.4	5	2
16...	1520	4.1	4.35	240	4.0	15	4.3	4	1
JAN 1998									
21...	1545	.30	4.25	200	3.2	20	4.0	2	2
21...	1600	4.0	4.25	240	3.3	20	4.1	2	2
FEB									
24...	1630	.30	E4.00	200	1.8	11	2.7	2	1
24...	1700	E3.7	E4.00	160	2.0	11	2.6	4	2
MAR									
24...	1615	.30	E4.00	200	5.2	7.5	1.9	5	4
24...	1630	E3.7	E4.00	160	4.9	7.6	1.8	7	4
APR									
21...	1450	.30	4.15	120	4.5	20	4.1	16	<1
21...	1505	3.8	4.15	120	4.6	21	4.1	10	6
MAY									
19...	1430	.30	2.55	70	6.3	45	4.6	14	9
19...	1455	2.3	2.55	60	5.9	40	4.7	19	10
JUN									
24...	1415	.30	4.25	60	2.8	790	1.6	9	3
24...	1435	4.0	4.25	50	1.9	1200	1.4	10	4
JUL									
21...	1350	.30	4.65	100	1.3	38	6.8	2	2
21...	1405	4.3	4.65	100	2.2	38	6.7	6	5
AUG									
19...	1630	.30	4.35	140	5.0	27	6.4	9	3
19...	1650	4.1	4.35	140	5.4	27	6.5	10	5
SEP									
29...	1415	.30	3.65	320	2.6	15	7.0	6	4
29...	1440	3.3	3.65	320	3.2	15	7.1	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)	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 R. AT RIVER MILE 14.82 NR FT. OGDEN, FL (LAT 27 03 18N LONG 081 59 31W)									
OCT 1997									
28...	<.010	.460	.050	.78	.930	.630	15	15	18
28...	<.010	.450	.040	.78	.880	.630	15	15	18
NOV									
19...	<.010	.230	.030	.76	.540	.470	15	14	3.7
19...	<.010	.240	.020	.91	.570	.480	14	14	3.6
DEC									
16...	<.010	.450	.060	1.1	.630	.510	21	20	5.5
16...	<.010	.450	.060	1.1	.610	.500	21	21	5.2
JAN 1998									
21...	.014	.390	.040	1.1	.570	.530	18	18	8.4
21...	.013	.380	.040	1.2	.570	.540	18	18	8.6
FEB									
24...	<.010	.220	.020	.76	.570	.540	13	13	4.9
24...	<.010	.220	.020	.68	.560	.510	13	13	4.7
MAR									
24...	<.010	.400	.050	.86	.550	.430	12	12	2.3
24...	.010	.390	.050	.87	.550	.430	13	13	2.2
APR									
21...	<.010	.280	.020	1.2	.780	.650	15	15	12
21...	.010	.270	.020	1.2	.800	.650	15	14	12
MAY									
19...	.010	<.020	.020	1.2	.960	.820	15	14	16
19...	.010	<.020	.010	1.3	1.00	.750	15	14	16
JUN									
24...	.010	.080	.050	.75	.750	.740	13	12	12
24...	<.010	.060	.050	.81	.760	.700	12	12	12
JUL									
21...	.025	.860	.090	.86	.650	.590	16	16	14
21...	.024	.820	.090	.97	.680	.580	16	15	13
AUG									
19...	.014	.370	.090	.90	.850	.730	17	17	15
19...	.015	.380	.080	.90	.880	.750	17	17	15
SEP									
29...	.020	.290	.060	1.4	.760	.700	16	16	7.6
29...	.021	.290	.060	1.5	.780	.720	16	16	9.2

ELEVATION AND WATER QUALITY OF LAKES

WATER RESOURCES DATA FOR FLORIDA, 1998
Volume 3A: Southwest Florida Surface Water

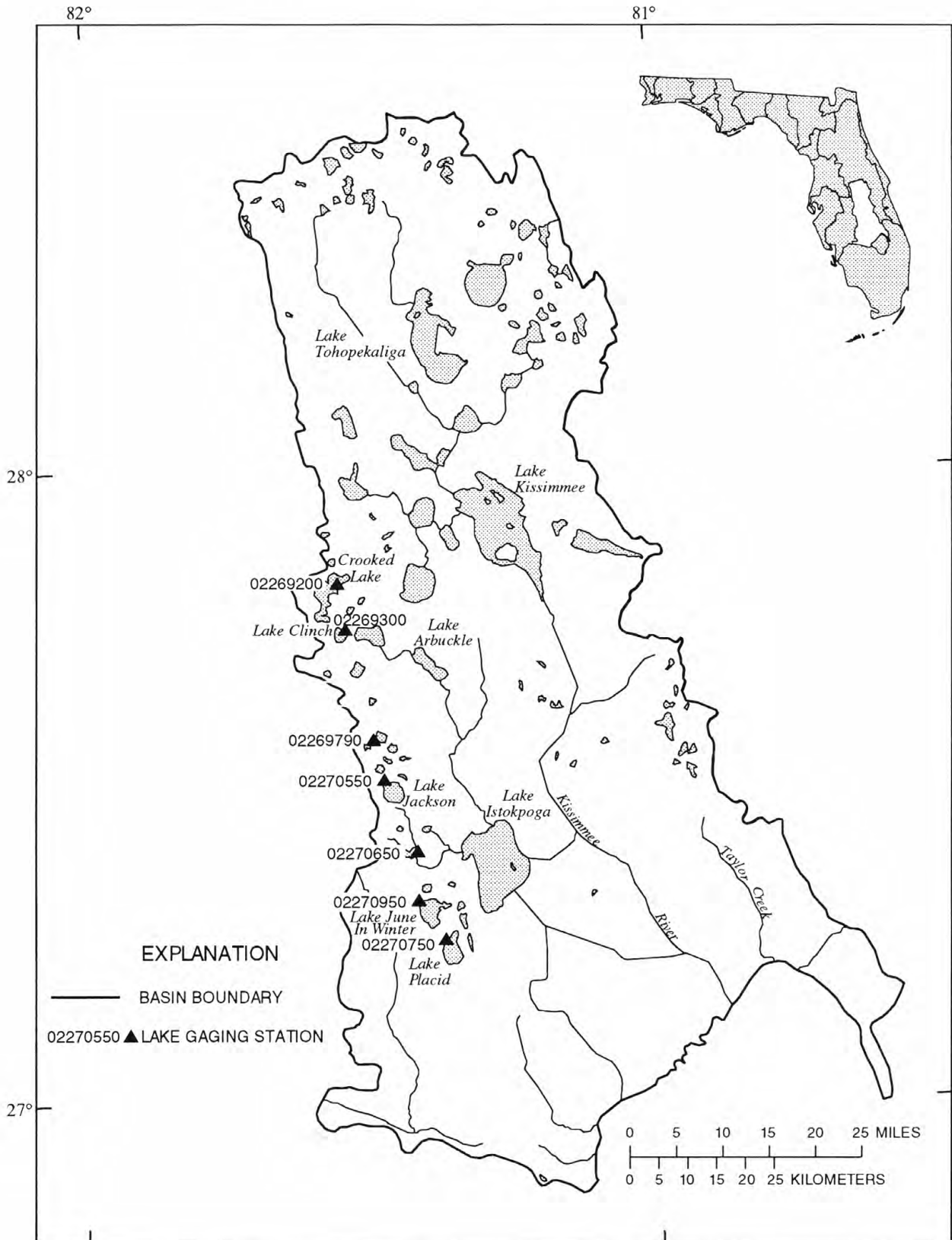


Figure 17.--Location of lake gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okeechobee from the north; and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

SOUTHERN FLORIDA

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KISSIMMEE RIVER BASIN

02269200 CROOKED LAKE NEAR BABSON PARK, FL

LOCATION.--Lat 27°49'39", long 81°33'12", in SE $\frac{1}{4}$ 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 mi²).

DRAINAGE AREA.--31.3 mi².

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, 119.14 ft, Apr. 1; minimum observed, 115.35 ft, Oct. 28.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115.70	---	---	---	---	118.30	119.14	---	---	117.58	117.74	---
2	---	115.45	115.76	---	---	---	119.00	---	118.21	---	---	---
3	---	---	---	---	117.38	---	---	---	---	---	---	117.72
4	115.66	---	---	---	---	---	---	---	---	---	---	---
5	---	115.36	---	---	---	118.32	---	---	---	---	117.82	---
6	---	---	---	---	---	---	---	---	118.00	---	---	117.74
7	---	---	---	---	---	---	---	118.52	---	---	---	---
8	115.58	---	115.76	---	---	---	---	---	---	117.48	117.80	---
9	---	---	---	116.70	---	118.45	118.88	---	---	---	---	---
10	---	---	115.74	---	---	---	118.86	---	---	---	---	---
11	115.54	---	---	---	---	---	---	---	---	---	117.83	---
12	---	---	115.79	---	---	118.36	---	---	---	---	---	---
13	---	---	---	---	---	---	---	118.34	117.96	117.79	117.75	---
14	---	115.72	---	---	117.46	---	---	---	---	---	---	---
15	---	---	---	116.68	---	---	---	---	---	---	---	---
16	---	---	---	116.84	---	---	---	118.32	117.86	---	---	117.62
17	---	---	116.29	---	117.80	---	---	---	---	---	---	---
18	115.41	---	116.28	---	---	---	---	---	---	117.94	---	---
19	---	115.78	---	---	117.84	---	---	118.20	---	---	---	---
20	---	115.78	---	---	118.02	118.88	---	---	117.78	---	---	117.82
21	115.36	---	---	---	---	---	118.71	---	---	---	117.62	---
22	---	---	116.35	---	---	118.96	---	---	---	---	117.66	---
23	---	---	---	---	---	---	---	118.12	---	---	117.72	117.95
24	---	---	---	---	---	---	---	---	117.66	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	116.40	---	118.14	118.94	118.66	---	117.76	---	---	118.14
27	---	---	116.50	---	118.10	---	---	---	---	---	117.64	---
28	115.35	---	116.54	---	---	118.95	---	118.02	---	---	---	---
29	115.36	---	---	117.16	---	---	118.50	118.02	---	---	117.69	---
30	---	---	---	117.17	---	---	118.50	---	---	117.82	---	---
31	---	---	---	---	---	---	---	118.20	---	---	117.71	---

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 mi²).

DRAINAGE AREA.--42.0 mi².

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, 106.34 ft, Apr. 1; minimum observed, 103.06 ft, Nov. 12.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

[illegible]

SOUTHERN FLORIDA

315

KISSIMMEE RIVER BASIN

02269790 LAKE LOTELA NEAR AVON PARK, FL

LOCATION.--Lat 27°34'38", long 81°29'38", in SW¹/₄ 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 mi²).

DRAINAGE AREA.--12.2 mi².

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, 108.92 ft, Mar. 26; minimum observed, 102.55 ft, Oct. 29.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	106.69	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	104.76	---	107.58	---	---	---	---	---	---	---
19	---	103.52	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	107.82	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	107.01	---	---	---
26	---	---	---	---	108.00	108.92	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	108.26	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	102.55	---	---	---	---	---	108.06	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	106.80	---	---

KISSIMMEE RIVER BASIN

02270550 LAKE JACKSON AT SEBRING, FL

LOCATION.--Lat 27°30'49", long 81°28'33", in NW $\frac{1}{4}$ 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 mi²).

DRAINAGE AREA.--14.0 mi².

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, 103.16 ft, Mar. 26; minimum observed, 100.54 ft, Oct. 29.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	102.06	---	---	---
5	---	---	---	---	102.75	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	101.42	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	100.63	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	101.58	---	---
18	---	---	101.86	---	---	---	---	---	---	---	---	---
19	---	101.10	---	---	---	---	---	102.20	---	---	101.67	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	102.56	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	101.68	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	102.96	103.16	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	102.00	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	100.54	---	---	102.56	---	---	102.46	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	102.45
31	---	---	---	---	---	---	---	---	---	101.44	---	---

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 mi²).

DRAINAGE AREA.--46.3 mi².

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, 72.26 ft, Mar. 25; minimum observed, 71.24 ft, June 24.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	71.87	---	---	---	71.36	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	71.84	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	71.76	---	---	---	---	---	---	71.44	---	---
18	---	71.54	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	71.28	---	---	71.32	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	71.52	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	71.24	---	---	---
25	---	---	---	---	---	72.26	---	---	---	---	---	---
26	---	---	---	---	72.04	---	---	---	---	---	71.52	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	71.38	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	71.58	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	71.78
31	---	---	---	---	---	---	---	---	---	71.28	---	---

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02270750 LAKE PLACID NEAR LAKE PLACID, FL

LOCATION.--Lat 27°15'37", long 81°22'22", in NE¹/₄ 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 mi²).

DRAINAGE AREA.--20.2 mi².

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, 93.44 ft, Mar. 31, Apr. 2; minimum observed, 91.48 ft, Nov. 20.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	92.72	92.30	---	---
2	---	---	---	---	---	---	93.44	---	---	---	---	---
3	91.90	91.62	91.54	91.90	---	93.16	---	92.98	---	---	92.70	---
4	---	---	---	---	92.70	---	---	---	---	---	---	92.84
5	---	---	---	---	---	---	93.40	---	---	---	---	---
6	---	91.58	91.62	91.88	---	---	---	92.96	92.66	---	92.78	---
7	91.88	---	---	---	92.82	---	---	---	---	92.30	---	92.86
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	91.52	91.58	92.18	---	93.20	---	92.92	92.74	---	92.84	---
10	91.82	---	---	---	92.80	---	93.34	---	---	92.36	---	92.88
11	---	---	---	---	---	---	---	92.90	---	---	---	---
12	---	---	91.58	92.20	---	---	---	---	92.68	---	92.88	---
13	91.78	---	---	---	92.82	---	---	92.85	---	92.38	---	92.86
14	---	---	---	---	---	---	93.28	---	---	---	---	---
15	91.74	---	---	---	---	---	---	---	---	---	93.00	---
16	91.76	---	91.88	92.32	---	---	---	---	92.60	92.86	---	---
17	---	---	---	---	93.00	---	---	92.75	---	---	---	93.00
18	---	---	---	92.30	---	---	---	---	---	---	92.98	---
19	91.76	---	91.86	---	---	---	---	---	92.50	92.82	---	---
20	---	91.48	---	---	93.10	---	93.16	---	---	---	---	93.06
21	---	---	---	92.28	---	---	---	---	---	---	---	---
22	91.68	---	---	---	---	---	---	92.68	92.50	92.80	92.94	---
23	---	91.66	91.88	---	93.16	---	---	---	---	---	---	93.16
24	---	---	---	92.38	---	---	93.12	---	---	---	---	---
25	91.62	---	---	---	---	---	---	---	92.44	92.76	92.92	---
26	---	91.58	91.90	---	93.14	---	---	---	---	---	---	---
27	---	---	91.98	92.36	---	---	---	92.54	---	---	---	93.36
28	91.58	---	---	---	93.16	---	93.06	---	92.40	92.72	92.88	---
29	---	---	91.92	92.34	---	---	---	---	---	---	---	---
30	---	91.56	---	---	---	---	---	92.58	---	---	---	---
31	91.58	---	91.92	92.32	---	93.44	---	---	---	92.68	92.82	---

KISSIMMEE RIVER BASIN

02270950 LAKE JUNE-IN-WINTER NEAR LAKE PLACID, FL

LOCATION.--Lat 27°19'19", long 81°25'08", in NE¹/₄ 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 mi²).

DRAINAGE AREA.--44.0 mi².

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, 75.14 ft, July 16; minimum, 73.67 ft, Nov. 11.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74.14	73.73	73.95	74.42	74.56	74.40	74.47	74.37	74.30	73.93	74.46	74.62
2	74.14	73.76	73.95	74.41	74.60	74.35	74.48	74.36	74.29	73.92	74.46	74.64
3	74.13	73.79	73.95	74.42	74.93	74.34	74.49	74.35	74.28	73.89	74.46	74.67
4	74.12	73.78	74.00	74.43	74.89	74.34	74.49	74.36	74.27	73.88	74.46	74.68
5	74.12	73.76	74.03	74.43	74.86	74.35	74.49	74.36	74.26	73.93	74.48	74.69
6	74.11	73.75	74.01	74.44	74.85	74.36	74.48	74.36	74.24	74.03	74.48	74.69
7	74.10	73.74	74.00	74.46	74.90	74.38	74.49	74.36	74.23	74.06	74.54	74.68
8	74.08	73.72	73.99	74.56	74.87	74.39	74.48	74.35	74.25	74.13	74.59	74.70
9	74.06	73.70	73.99	74.65	74.83	74.44	74.47	74.33	74.28	74.12	74.61	74.71
10	74.04	73.70	74.00	74.67	74.79	74.44	74.46	74.32	74.27	74.11	74.61	74.75
11	74.03	73.69	74.01	74.67	74.75	74.44	74.43	74.30	74.25	74.11	74.63	74.80
12	74.03	73.70	74.03	74.67	74.71	74.42	74.42	74.29	74.24	74.14	74.69	74.79
13	74.01	73.71	74.13	74.67	74.67	74.41	74.41	74.28	74.21	74.27	74.73	74.78
14	73.96	73.84	74.24	74.69	74.62	74.40	74.40	74.27	74.19	74.50	74.74	74.78
15	73.95	73.87	74.26	74.71	74.59	74.41	74.40	74.25	74.17	74.71	74.75	74.79
16	73.93	73.87	74.25	74.79	74.69	74.41	74.40	74.23	74.15	74.79	74.74	74.80
17	73.92	73.85	74.26	74.80	74.72	74.42	74.40	74.21	74.14	74.94	74.74	74.85
18	73.91	73.84	74.27	74.80	74.74	74.43	74.40	74.19	74.12	74.92	74.74	74.95
19	73.89	73.83	74.27	74.80	74.73	74.62	74.39	74.18	74.10	74.89	74.74	74.97
20	73.87	73.83	74.28	74.80	74.73	74.90	74.39	74.17	74.08	74.86	74.76	75.00
21	73.85	73.83	74.28	74.80	74.70	74.92	74.45	74.15	74.08	74.80	74.79	75.03
22	73.83	73.85	74.30	74.81	74.67	74.89	74.45	74.14	74.11	74.74	74.88	75.01
23	73.82	73.94	74.31	74.85	74.63	74.85	74.43	74.13	74.09	74.68	74.88	74.94
24	73.80	73.94	74.32	74.84	74.59	74.80	74.41	74.11	74.07	74.61	74.87	74.85
25	73.79	73.93	74.33	74.81	74.55	74.76	74.40	74.10	74.05	74.54	74.79	74.80
26	73.79	73.93	74.36	74.76	74.52	74.72	74.40	74.09	74.03	74.46	74.74	74.85
27	73.78	73.93	74.41	74.74	74.46	74.67	74.39	74.07	74.01	74.40	74.69	74.82
28	73.77	73.93	74.44	74.70	74.42	74.62	74.39	74.07	74.00	74.39	74.68	74.76
29	73.75	73.94	74.44	74.67	---	74.59	74.39	74.09	73.98	74.38	74.67	74.69
30	73.74	73.95	74.43	74.63	---	74.55	74.38	74.19	73.95	74.38	74.64	74.63
31	73.73	---	74.42	74.59	---	74.51	---	74.27	---	74.41	74.62	---
MEAN	73.94	73.82	74.19	74.66	74.70	74.53	74.43	74.24	74.16	74.38	74.67	74.79
MAX	74.14	73.95	74.44	74.85	74.93	74.92	74.49	74.37	74.30	74.94	74.88	75.03
MIN	73.73	73.69	73.95	74.41	74.42	74.34	74.38	74.07	73.95	73.88	74.46	74.62

CAL YR 1997 MEAN 73.70 MAX 74.44 MIN 73.21
WTR YR 1998 MEAN 74.37 MAX 75.03 MIN 73.69

WATER RESOURCES DATA FOR FLORIDA, 1998
Volume 3A: Southwest Florida Surface Water

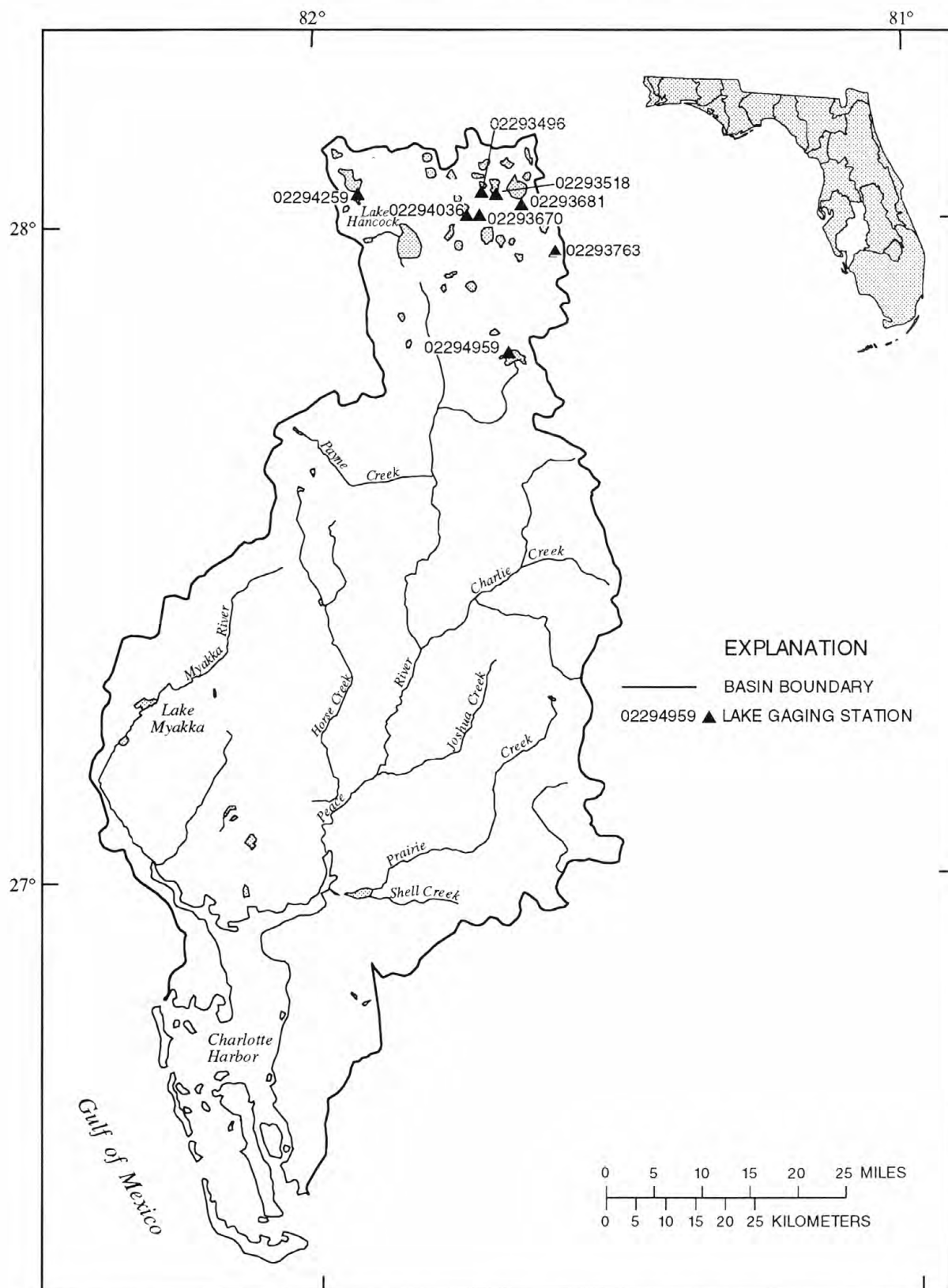


Figure 18.--Location of lake gaging stations in the Peace and Myakka River basins, Charlotte Harbor and Coastal area.

PEACE RIVER BASIN

02293496 LAKE SMART NEAR FLORENCE VILLA, FL

LOCATION.--Lat 28°03'08", long 81°42'38", in NW¹/₄ 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 mi²).

DRAINAGE AREA.--17.9 mi².

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, 128.78 ft, Mar. 30; minimum observed, 128.04 ft, July 13.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

Oct. 03	128.25	June 01	128.28
Dec. 02	128.46	July 13	128.04
Jan. 27	128.64	Aug. 10	128.25
Mar. 30	128.78		

02293518 LAKE FANNIE NEAR FLORENCE VILLA, FL

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 126.16 ft, Feb. 24; minimum observed, 123.74 ft, Oct. 30.

[illegible]

02293670 LAKE OTIS AT WINTER HAVEN, FL

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 127.04 ft, Mar. 25; minimum observed, 124.90 ft, June 23.

[illegible]

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 mi²).

DRAINAGE AREA.--20.5 mi².

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 to September 1998 (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, 122.34 ft, Jan. 16; minimum observed, 119.55 ft, Oct. 26.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119.85	119.90	120.07	122.13	121.82	---	---	---	120.73	---	---	---
2	119.83	119.92	120.06	122.06	121.74	---	---	---	---	---	---	---
3	119.82	119.91	120.04	122.02	121.84	---	---	---	---	---	---	---
4	119.80	119.91	120.18	122.00	121.90	---	---	---	---	---	---	---
5	119.80	119.90	120.26	122.00	121.87	---	---	---	---	---	---	---
6	119.78	119.89	120.27	122.02	121.84	---	---	---	---	---	---	---
7	119.77	119.91	120.27	122.01	121.82	---	---	---	---	120.09	---	---
8	119.78	119.89	120.28	122.11	121.76	---	---	---	---	---	---	---
9	119.77	119.86	120.30	122.20	121.71	---	---	---	---	---	---	---
10	119.76	119.84	120.34	122.21	121.66	---	---	---	---	---	120.92	---
11	119.74	119.84	120.48	122.22	121.60	---	---	---	---	---	---	---
12	119.72	119.82	120.62	122.22	121.57	---	---	121.04	---	---	---	---
13	119.71	119.90	120.95	122.24	121.55	---	---	---	---	120.26	---	---
14	119.71	120.09	121.19	122.29	121.53	---	---	---	---	---	---	120.64
15	119.70	120.10	121.34	122.31	121.48	---	---	---	---	---	---	---
16	119.68	120.11	121.43	122.34	121.66	---	---	---	---	---	---	---
17	119.67	120.10	121.48	122.32	121.75	---	---	---	---	---	---	---
18	119.66	120.08	121.56	122.30	121.80	---	---	---	---	---	---	---
19	119.67	120.08	121.62	122.28	121.81	---	---	120.88	---	---	---	---
20	119.64	120.07	121.65	122.26	122.02	---	---	---	---	---	---	---
21	119.61	120.07	121.68	122.24	122.06	---	---	---	---	---	---	---
22	119.60	120.08	121.70	122.18	122.07	---	---	---	---	---	---	---
23	119.59	120.09	121.73	122.20	122.15	---	---	---	120.20	---	---	---
24	119.57	120.10	121.72	122.26	122.14	---	---	---	---	---	---	---
25	119.56	120.07	121.71	122.26	122.12	122.30	---	---	---	---	---	---
26	119.55	120.07	121.73	122.22	122.11	---	---	---	---	---	120.78	---
27	119.66	120.06	121.98	122.18	122.12	---	121.00	---	---	---	---	---
28	119.75	120.04	122.24	122.16	122.21	---	120.96	---	---	---	---	---
29	119.73	120.04	122.33	122.07	---	---	---	---	---	120.78	---	121.44
30	119.72	120.06	122.28	122.00	---	122.17	---	---	---	---	---	---
31	119.77	---	122.20	121.92	---	---	---	---	---	---	---	---
MEAN	119.71	119.99	121.15	122.17	121.85	---	---	---	---	---	---	---
MAX	119.85	120.11	122.33	122.34	122.21	---	---	---	---	---	---	---
MIN	119.55	119.82	120.04	121.92	121.48	---	---	---	---	---	---	---

02293763 LAKE STARR NEAR WAVERLY, FL

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 106.57 ft. Apr. 4; minimum, 104.00 ft. Oct. 26, 27.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104.34	104.19	104.27	104.86	105.19	106.03	106.55	106.37	106.02	105.32	105.50	105.56
2	104.33	104.22	104.26	104.85	105.21	106.03	106.56	106.36	106.00	105.30	105.48	105.57
3	104.32	104.21	104.25	104.85	105.36	106.02	106.56	106.35	105.98	105.27	105.54	105.58
4	104.30	104.20	104.31	104.86	105.36	106.01	106.56	106.36	105.96	105.25	105.53	105.59
5	104.29	104.18	104.32	104.87	105.34	106.01	106.55	106.37	105.94	105.24	105.51	105.58
6	104.29	104.17	104.30	104.87	105.33	106.02	106.55	106.37	105.91	105.23	105.50	105.57
7	104.27	104.17	104.29	104.89	105.33	106.03	106.54	106.38	105.89	105.21	105.50	105.56
8	104.28	104.16	104.27	104.96	105.32	106.03	106.54	106.37	105.86	105.20	105.52	105.55
9	104.26	104.14	104.27	105.00	105.31	106.15	106.53	106.36	105.83	105.21	105.53	105.54
10	104.25	104.13	104.29	104.99	105.31	106.13	106.52	106.35	105.81	105.25	105.54	105.53
11	104.23	104.12	104.41	104.99	105.31	106.12	106.50	106.35	105.79	105.26	105.61	105.50
12	104.21	104.12	104.46	104.98	105.31	106.11	106.48	106.33	105.77	105.29	105.60	105.48
13	104.20	104.17	104.64	104.98	105.32	106.10	106.47	106.32	105.74	105.38	105.59	105.46
14	104.18	104.34	104.75	104.98	105.34	106.10	106.46	106.31	105.72	105.47	105.58	105.45
15	104.16	104.36	104.77	105.01	105.35	106.10	106.46	106.28	105.70	105.59	105.56	105.43
16	104.15	104.35	104.75	105.05	105.52	106.10	106.45	106.26	105.67	105.60	105.55	105.43
17	104.13	104.33	104.75	105.04	105.63	106.11	106.45	106.24	105.65	105.59	105.56	105.44
18	104.12	104.31	104.74	105.03	105.66	106.12	106.45	106.22	105.63	105.58	105.55	105.46
19	104.11	104.31	104.74	105.03	105.67	106.32	106.43	106.21	105.60	105.60	105.54	105.63
20	104.09	104.30	104.73	105.03	105.90	106.49	106.43	106.19	105.58	105.64	105.57	105.70
21	104.08	104.29	104.74	105.03	105.92	106.51	106.44	106.17	105.55	105.64	105.60	105.78
22	104.06	104.29	104.74	105.04	105.92	106.50	106.42	106.15	105.53	105.63	105.59	105.81
23	104.04	104.29	104.75	105.13	105.91	106.50	106.40	106.13	105.50	105.63	105.59	105.81
24	104.02	104.29	104.75	105.23	105.91	106.50	106.38	106.12	105.48	105.62	105.57	105.81
25	104.01	104.28	104.76	105.23	105.94	106.51	106.36	106.10	105.45	105.61	105.58	105.86
26	104.00	104.28	104.79	105.22	105.94	106.51	106.35	106.09	105.42	105.60	105.63	105.93
27	104.06	104.27	104.88	105.22	105.95	106.51	106.35	106.07	105.41	105.59	105.62	105.93
28	104.12	104.26	104.91	105.21	105.98	106.52	106.34	106.06	105.39	105.57	105.61	105.93
29	104.11	104.26	104.90	105.20	---	106.53	106.32	106.05	105.37	105.55	105.59	105.92
30	104.10	104.27	104.89	105.20	---	106.53	106.34	106.04	105.35	105.54	105.58	105.91
31	104.12	---	104.87	105.20	---	106.54	---	106.03	---	105.52	105.58	---
MEAN	104.17	104.24	104.60	105.03	105.56	106.25	106.46	106.24	105.68	105.45	105.56	105.64
MAX	104.34	104.36	104.91	105.23	105.98	106.54	106.56	106.38	106.02	105.64	105.63	105.93
MIN	104.00	104.12	104.25	104.85	105.19	106.01	106.32	106.03	105.35	105.20	105.48	105.43

WTR YR 1998 MEAN 105.40 MAX 106.56 MIN 104.00

02294036 LAKE HOWARD AT WINTER HAVEN, FL

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 132.45 ft, Dec. 18, minimum observed, 130.84 ft, June 23.

[illegible]

PEACE RIVER BASIN

02294259 LAKE PARKER AT LAKELAND, FL

LOCATION.--Lat 28°02'59", long 81°55'22", in NW¹/₄ 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 mi²).

DRAINAGE AREA.--23.6 mi².

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, 131.60 ft, Dec. 16, Sept. 27; minimum observed, 129.28 ft, June 30.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130.70	131.00	130.80	131.20	130.70	131.05	130.58	130.08	129.68	129.33	130.21	130.16
2	130.70	131.05	130.70	131.20	130.65	131.10	130.50	130.08	129.70	129.33	130.20	130.15
3	130.71	131.05	130.70	131.10	130.80	130.95	130.46	130.08	129.70	129.35	130.19	130.15
4	130.70	131.02	131.10	131.10	130.75	130.90	130.45	130.09	129.60	129.30	130.20	130.15
5	130.70	131.00	131.10	131.00	130.76	130.80	130.40	130.09	129.58	129.38	130.20	130.10
6	130.72	130.84	131.09	130.92	130.70	130.76	130.36	130.09	129.58	129.35	130.20	130.10
7	130.70	130.78	131.09	130.85	130.72	130.72	130.26	130.10	129.56	129.35	130.30	130.27
8	130.70	130.76	130.86	130.90	130.80	130.70	130.20	130.10	129.50	129.50	130.30	130.26
9	130.67	130.75	130.80	130.95	130.55	130.90	130.18	130.09	129.50	129.48	130.29	130.25
10	130.67	130.59	130.86	130.95	130.60	130.80	130.18	130.10	129.70	129.48	130.26	130.30
11	130.65	130.59	130.91	130.90	130.58	130.70	130.18	130.04	129.80	129.48	130.29	130.30
12	130.63	130.59	130.96	130.80	130.60	130.50	130.18	130.04	129.70	129.50	130.29	130.30
13	130.62	130.55	131.38	130.74	130.60	130.60	130.10	130.02	129.65	129.66	130.25	130.28
14	130.62	130.90	131.50	130.72	130.60	130.50	130.10	129.98	129.70	129.80	130.20	130.30
15	130.59	131.00	131.55	130.66	130.62	130.50	130.05	129.96	129.60	130.09	130.20	130.30
16	130.59	131.00	131.60	130.74	130.85	130.42	130.10	129.94	129.58	130.15	130.14	130.30
17	130.58	130.88	131.45	130.70	131.00	130.40	130.05	129.90	129.58	130.20	130.20	130.35
18	130.57	130.80	131.38	130.61	131.00	130.32	130.10	129.90	129.58	130.15	130.20	130.37
19	130.59	130.77	131.30	130.58	130.95	130.64	130.05	129.90	129.54	130.12	130.16	130.52
20	130.59	130.70	131.25	130.58	131.18	131.00	130.08	129.89	129.50	130.29	130.15	130.62
21	130.57	130.69	131.05	130.58	131.12	131.00	130.08	129.80	129.50	130.30	130.20	131.10
22	130.56	130.67	131.09	130.55	131.12	130.90	130.07	129.80	129.49	130.30	130.18	131.18
23	130.55	130.80	131.01	130.55	131.10	130.90	130.08	129.80	129.48	130.30	130.20	131.18
24	130.55	130.80	130.94	130.65	131.20	130.90	130.05	129.80	129.40	130.29	130.13	131.30
25	130.50	130.80	130.90	130.64	131.18	130.90	130.00	129.76	129.40	130.30	130.20	131.35
26	130.58	130.75	130.93	130.75	131.05	130.80	130.00	129.72	129.40	130.29	130.20	131.55
27	130.52	130.75	131.28	130.70	131.00	130.78	130.05	129.71	129.38	130.30	130.12	131.60
28	130.70	130.70	131.42	130.70	131.05	130.76	130.00	129.70	129.35	130.00	130.12	131.50
29	130.70	130.70	131.39	130.70	---	130.70	130.00	129.70	129.30	130.30	130.28	131.42
30	130.74	130.70	131.40	130.70	---	130.62	130.00	129.69	129.28	130.20	130.10	131.46
31	130.75	---	131.30	130.70	---	130.59	---	129.70	---	130.12	130.20	---
MEAN	130.64	130.80	131.13	130.79	130.85	130.75	130.16	129.92	129.54	129.87	130.21	130.64
MAX	130.75	131.05	131.60	131.20	131.20	131.10	130.58	130.10	129.80	130.30	130.30	131.60
MIN	130.50	130.55	130.70	130.55	130.55	130.32	130.00	129.69	129.28	129.30	130.10	130.10

WTR YR 1998 MEAN 130.44 MAX 131.60 MIN 129.28

02294959 LAKE BUFFUM NEAR ALTURAS, FL

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 132.42 ft, Feb. 24; minimum observed, 130.36 ft, Oct. 27.

[illegible]

WATER RESOURCES DATA FOR FLORIDA, 1998
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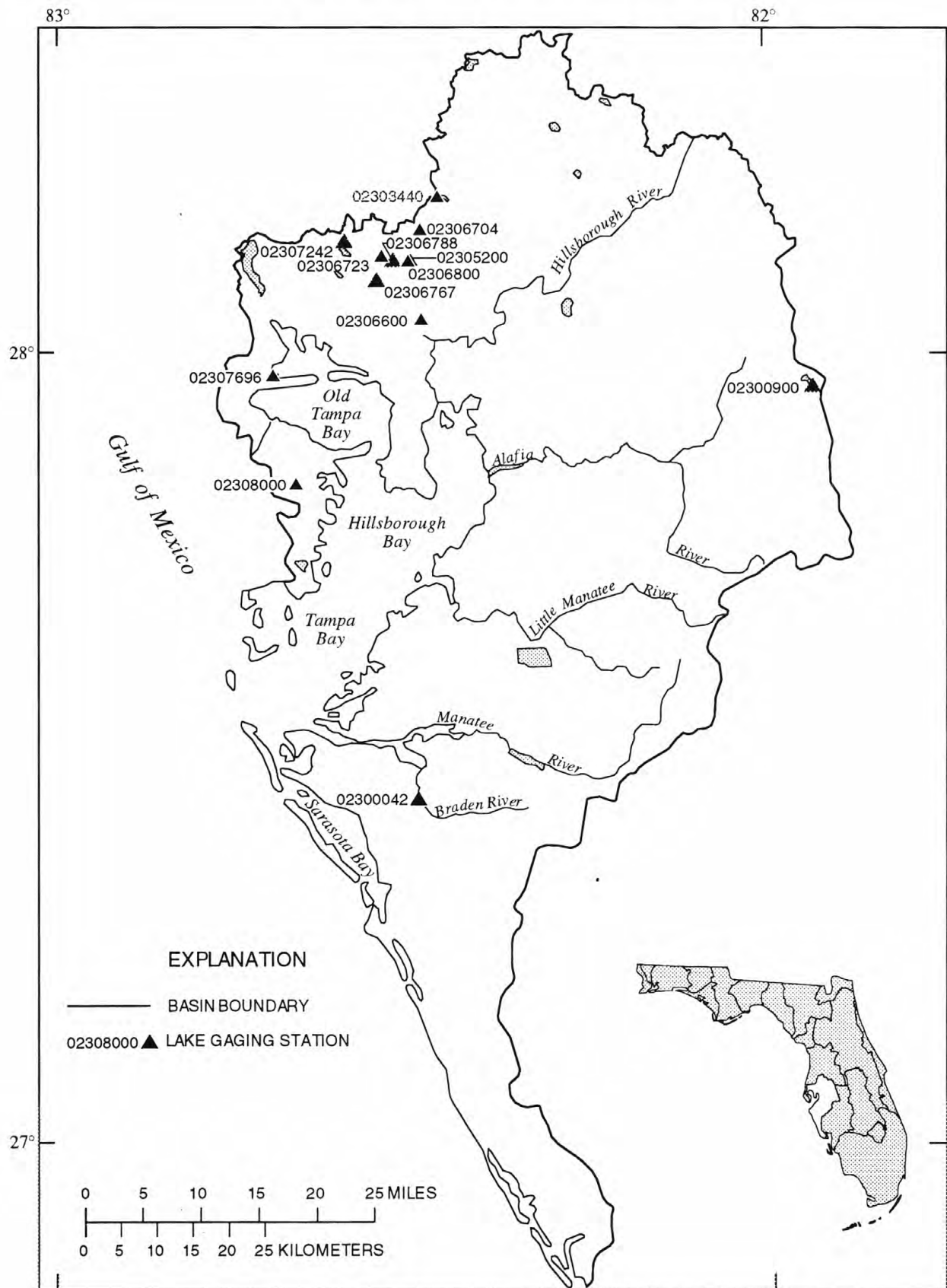


Figure 19.--Location of lake gaging stations in the Manatee, Little Manatee, Alafia, Hillsborough River basins, Tampa Bay and coastal area.

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 mi²).

DRAINAGE AREA.--59.5 mi², 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, 5.36 ft, Nov. 14; minimum, 0.02 ft, July 11.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.22	4.16	4.03	4.08	4.02	4.03	3.95	3.33	2.28	.57	3.81	3.93
2	4.15	4.25	4.03	4.06	4.04	4.02	3.95	3.30	2.27	.49	3.85	3.95
3	4.10	4.25	4.00	4.04	4.19	4.00	3.94	3.26	2.25	.44	3.86	3.93
4	4.07	4.14	4.07	4.03	4.16	3.99	3.93	3.23	2.22	.37	3.84	3.93
5	4.05	4.09	4.12	4.02	4.09	3.97	3.92	3.21	2.17	.29	3.82	3.92
6	4.04	4.07	4.06	4.00	4.05	3.96	3.92	3.18	2.12	.23	3.78	3.92
7	4.02	4.04	4.03	4.00	4.06	3.95	3.91	3.15	2.07	.15	3.79	3.93
8	4.00	4.03	4.01	4.10	4.05	3.94	3.90	3.11	2.00	.10	3.88	3.98
9	4.00	4.02	4.00	4.11	4.02	4.05	3.89	3.07	1.94	.06	3.95	3.97
10	3.99	4.01	4.00	4.07	4.00	4.06	3.89	3.04	1.90	.03	3.96	3.98
11	3.97	4.00	3.99	4.03	3.99	4.00	3.87	2.98	1.85	.02	3.92	3.96
12	3.96	4.00	4.02	4.01	3.97	3.97	3.87	2.92	1.79	.31	3.90	3.95
13	3.96	4.30	4.59	3.99	3.97	3.95	3.86	2.88	1.70	1.06	3.87	3.94
14	3.95	5.26	4.83	3.99	3.96	3.94	3.84	2.82	1.63	1.57	3.85	3.93
15	3.93	4.89	4.49	4.01	3.98	3.93	3.84	2.76	1.56	1.93	3.82	3.92
16	3.92	4.46	4.27	4.05	4.36	3.93	3.83	2.71	1.51	2.17	3.84	3.92
17	3.91	4.29	4.17	4.06	4.52	3.92	3.81	2.66	1.44	2.56	3.99	3.93
18	3.96	4.20	4.12	4.03	4.43	3.92	3.79	2.60	1.37	2.70	4.02	3.95
19	4.00	4.15	4.08	4.01	4.22	4.54	3.77	2.54	1.29	2.76	4.10	4.33
20	3.99	4.12	4.07	4.00	4.17	5.17	3.74	2.47	1.21	2.79	4.12	4.61
21	3.98	4.10	4.05	3.99	4.13	4.81	3.72	2.42	1.17	2.84	4.04	4.57
22	3.96	4.08	4.04	3.99	4.09	4.40	3.70	2.37	1.06	2.98	4.00	4.32
23	3.96	4.07	4.02	4.36	4.05	4.22	3.65	2.31	1.00	3.21	3.99	4.17
24	3.96	4.06	4.03	4.75	4.03	4.13	3.61	2.25	.99	3.40	4.03	4.12
25	3.94	4.04	4.03	4.44	4.01	4.09	3.58	2.18	.94	3.53	4.02	4.12
26	3.93	4.04	4.13	4.22	4.00	4.05	3.55	2.12	.89	3.58	3.98	4.23
27	3.97	4.03	4.50	4.14	3.99	4.02	3.51	2.06	.85	3.60	3.97	4.18
28	4.04	4.01	4.58	4.11	3.98	4.00	3.46	2.02	.79	3.61	3.98	4.10
29	4.02	4.01	4.30	4.08	---	3.99	3.40	2.02	.72	3.60	3.98	4.06
30	4.00	4.02	4.17	4.05	---	3.97	3.37	2.09	.67	3.62	3.96	4.04
31	4.09	---	4.12	4.03	---	3.96	---	2.25	---	3.73	3.94	---
MEAN	4.00	4.17	4.16	4.09	4.09	4.09	3.77	2.69	1.52	1.88	3.93	4.06
MAX	4.22	5.26	4.83	4.75	4.52	5.17	3.95	3.33	2.28	3.73	4.12	4.61
MIN	3.91	4.00	3.99	3.99	3.96	3.92	3.37	2.02	.67	.02	3.78	3.92

CAL YR 1997 MEAN 2.93 MAX 5.26 MIN -1.74

WTR YR 1998 MEAN 3.54 MAX 5.26 MIN .02

ALAFIA RIVER BASIN

02300900 SCOTT LAKE NEAR LAKELAND, FL

LOCATION.--Lat 27°57'44", long 81°56'04", in NW¹/₄ 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 mi²).

DRAINAGE AREA.--2.11 mi².

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, 168.36 ft, Dec. 28; minimum observed, 166.98 ft, Oct. 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	167.65	---	---	---	---	---	167.24	---	---	---
2	---	---	---	168.02	167.80	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	167.40	---	---	---	---	---	167.28	---	---	---	---
5	---	---	167.76	---	---	---	---	---	167.22	---	---	---
6	167.18	---	---	---	---	167.20	167.40	---	---	---	---	167.18
7	---	---	---	---	---	---	---	---	---	---	167.00	---
8	---	---	---	---	167.86	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	167.50	---	167.01	---
11	---	---	167.76	167.90	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	167.40	---	---
13	167.16	---	---	---	167.50	167.20	167.30	---	---	167.55	---	---
14	---	---	---	---	---	---	---	---	---	---	---	167.00
15	---	167.68	168.10	---	167.46	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	167.20	---	---	---	---
17	---	167.61	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	167.20	---	---	---	---
19	---	---	167.96	---	---	---	---	---	---	---	---	---
20	---	---	---	167.82	---	167.72	167.28	---	---	---	---	---
21	167.00	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	167.26	167.38	---	---
23	---	---	---	---	167.68	167.65	---	167.20	---	---	167.00	---
24	---	---	---	---	---	167.20	---	---	---	---	167.07	---
25	---	---	---	---	167.46	167.56	167.28	---	---	---	---	---
26	---	---	---	167.88	---	---	---	---	---	---	---	167.66
27	166.98	---	---	---	---	---	167.29	---	---	167.20	---	---
28	---	---	168.36	---	---	---	---	---	---	---	---	167.36
29	---	---	---	---	---	---	---	167.16	---	---	---	---
30	167.18	---	---	---	---	167.49	---	---	---	---	167.15	---
31	---	---	---	167.80	---	167.48	---	---	---	---	---	---

HILLSBOROUGH RIVER BASIN

02303440 LAKE PADGETT NEAR LUTZ, FL

LOCATION.--Lat 28°12'12", long 82°27'43", in SW¹/₄ 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 mi²).

DRAINAGE AREA.--6.6 mi², 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 current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Feb. 18, 1970, to Sept. 30, 1992 (corrected), 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, 71.76 ft, Sept. 22; minimum observed, 68.40 ft, July 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70.20	70.36	---	---	---	---	---	69.60	69.02	---	---	---
2	---	---	---	71.10	---	---	70.57	---	---	---	---	---
3	---	70.38	70.08	71.02	70.70	---	---	---	69.02	---	---	---
4	---	70.38	70.24	---	70.76	70.80	70.48	---	---	---	---	---
5	---	---	---	---	70.76	---	---	---	68.98	---	---	---
6	70.08	70.36	---	70.86	70.70	---	---	69.50	---	---	---	---
7	70.06	70.36	---	70.86	70.68	70.70	---	69.48	---	68.40	---	---
8	70.00	70.34	---	---	---	---	---	69.46	---	---	---	70.80
9	---	---	70.24	---	---	---	---	69.44	68.90	---	---	---
10	---	---	---	---	---	---	70.26	---	68.90	---	69.82	---
11	69.82	---	---	---	---	---	70.20	---	---	---	---	---
12	---	---	70.66	---	70.50	---	---	69.40	---	---	---	---
13	69.90	70.20	71.00	70.70	70.46	70.82	---	---	---	---	---	---
14	69.86	70.40	71.26	70.70	---	---	70.08	69.34	---	---	---	---
15	69.86	70.40	---	---	---	---	---	69.32	68.68	---	---	---
16	69.80	---	71.36	---	70.68	---	---	69.30	---	---	---	---
17	69.80	---	---	---	71.14	70.60	---	---	---	69.44	69.68	---
18	69.76	70.34	---	---	---	70.60	69.96	69.28	---	---	---	---
19	---	70.34	---	---	---	70.74	---	69.24	68.59	---	69.74	---
20	---	70.30	---	70.60	---	71.28	---	69.20	---	69.64	---	---
21	69.74	---	---	70.58	71.36	71.28	69.88	---	---	69.86	---	71.74
22	69.70	---	---	---	---	---	69.82	---	---	---	---	71.76
23	---	---	---	---	---	---	---	69.18	68.62	---	---	71.72
24	---	70.20	70.90	---	71.18	---	69.80	---	---	---	69.84	71.64
25	---	70.18	---	---	---	---	---	69.06	---	---	---	71.50
26	---	---	71.22	---	71.02	---	---	---	---	---	---	71.48
27	---	---	71.54	70.52	70.92	---	---	69.10	---	69.80	---	---
28	69.90	---	---	70.50	---	---	69.68	---	---	---	---	71.24
29	---	70.10	---	---	---	---	69.68	69.10	---	---	---	71.16
30	69.90	---	71.40	---	---	---	---	69.14	---	---	---	---
31	---	---	---	70.40	---	70.60	---	---	---	---	---	---

HILLSBOROUGH RIVER BASIN

02305200 ROUND LAKE NEAR LUTZ, FL

LOCATION.--Lat 28°07'19", long 82°30'00", in NW¹/₄ 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 mi²).

DRAINAGE AREA.--0.07 mi².

ELEVATION RECORDS

PERIOD OF RECORD.--January 1965 to September 1967; July 1971 to September 1981 (twice weekly), incomplete; October 1996 to current year (incomplete).

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 elevation, 47.69 ft, June 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 55.84 ft, Feb. 20; minimum, 51.44 ft, July 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.59	53.54	53.04	55.43	55.08	55.62	55.03	---	---	51.78	51.65	53.15
2	53.56	53.54	53.01	55.43	55.08	55.59	54.99	---	53.35	51.73	---	53.09
3	53.52	53.50	52.97	---	55.42	55.43	54.94	---	53.28	51.66	51.66	53.12
4	53.47	53.46	53.12	---	55.43	55.30	54.89	---	53.22	51.61	51.64	53.14
5	53.41	53.41	53.16	---	55.40	55.26	54.85	---	53.16	51.56	51.67	53.10
6	53.36	53.37	53.12	---	55.38	55.22	54.80	---	53.09	51.49	51.76	53.09
7	53.31	53.33	53.09	55.45	55.35	55.18	54.84	---	53.03	51.50	51.74	53.21
8	53.26	53.29	53.05	55.56	55.31	55.13	54.91	---	52.97	51.56	---	53.21
9	53.21	53.25	53.04	55.60	55.28	55.27	54.86	---	52.90	51.54	---	53.29
10	53.16	53.21	53.07	55.57	55.25	55.25	54.82	---	52.84	51.64	---	53.32
11	53.10	53.17	53.23	55.53	55.20	55.20	54.76	---	52.78	51.73	---	53.31
12	53.05	53.13	53.36	55.49	55.17	55.16	54.71	---	52.72	51.71	---	53.28
13	53.01	53.12	53.61	55.45	55.14	55.12	54.66	---	52.66	51.72	---	53.24
14	52.98	53.30	53.79	55.42	55.12	55.08	54.60	---	52.59	51.68	---	53.21
15	52.93	53.31	53.91	55.41	55.09	55.04	54.55	---	52.53	51.77	---	53.18
16	52.93	53.28	54.01	55.43	55.40	54.99	54.50	---	52.47	51.84	---	53.14
17	52.95	53.23	54.10	55.41	55.71	54.95	54.49	---	52.42	51.86	---	53.11
18	53.02	53.19	54.14	55.38	55.72	54.91	54.52	---	52.36	51.83	---	53.10
19	53.10	53.17	54.14	55.34	55.71	55.17	54.44	---	52.29	51.81	---	53.12
20	53.11	53.12	54.12	55.31	55.83	55.56	54.35	---	52.23	51.86	---	53.33
21	53.12	53.09	54.09	55.28	55.81	55.52	54.32	---	52.19	51.96	52.59	53.60
22	53.14	53.07	54.07	55.24	55.74	55.47	54.31	---	52.18	51.98	52.66	53.60
23	53.15	53.08	54.05	55.29	55.71	55.41	54.29	---	52.13	51.96	52.77	53.60
24	53.17	53.11	54.02	55.34	55.66	55.36	54.25	---	52.08	51.93	52.82	53.61
25	53.19	53.13	54.08	55.32	55.60	55.31	54.19	---	52.02	51.90	52.87	53.63
26	53.21	53.15	54.24	55.28	55.55	55.27	54.21	---	51.96	51.87	52.93	53.75
27	53.28	53.13	54.74	55.26	55.52	55.23	54.21	---	51.95	51.83	52.98	53.78
28	53.35	53.09	55.03	55.23	55.55	55.19	54.23	---	51.96	51.80	53.02	53.79
29	53.31	53.06	55.23	55.19	---	55.15	54.15	---	51.90	51.76	53.06	53.78
30	53.26	53.05	55.36	55.15	---	55.11	---	---	51.84	51.72	53.11	53.77
31	53.31	---	55.42	55.12	---	55.07	---	---	---	51.68	53.16	---
MEAN	53.21	53.23	53.85	---	55.44	55.24	---	---	---	51.75	---	53.35
MAX	53.59	53.54	55.42	---	55.83	55.62	---	---	---	51.98	---	53.79
MIN	52.93	53.05	52.97	---	55.08	54.91	---	---	---	51.49	---	53.09

HILLSBOROUGH RIVER BASIN

02305200 ROUND LAKE NEAR LUTZ, FL--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1998

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	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)
280713082300900 ROUND LAKE NO. 4 NR LUTZ, FL (LAT 28 07 13N LONG 082 30 09W)									
OCT 1996									
04...	1130	2.00	252	7.5	28.5	10	6.3	37	2.0
280716082300100 ROUND LAKE NO. 1 NR LUTZ, FL (LAT 28 07 16N LONG 082 30 01W)									
OCT 1996									
04...	1100	2.00	247	7.2	28.4	5	6.1	35	1.9
NOV 1997									
05...	1545	2.00	231	7.4	23.4	10	7.9	35	2.0
DEC									
03...	1700	2.00	227	7.3	21.3	--	7.6	--	--
JUN 1998									
03...	1100	2.00	221	8.5	33.0	--	8.5	31	1.7
DATE		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)	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)
280713082300900 ROUND LAKE NO. 4 NR LUTZ, FL (LAT 28 07 13N LONG 082 30 09W)									
OCT 1996									
04...	9.4	.30	.70	16	<.10	2.7	144	<.010	
280716082300100 ROUND LAKE NO. 1 NR LUTZ, FL (LAT 28 07 16N LONG 082 30 01W)									
OCT 1996									
04...	8.8	.40	.70	16	<.10	2.5	146	<.010	
NOV 1997									
05...	8.5	.20	1.1	14	<.10	3.2	126	<.010	
DEC									
03...	--	--	--	--	--	--	--	--	--
JUN 1998									
03...	7.7	.30	2.3	13	<.10	3.2	118	--	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02305200 ROUND LAKE NEAR LUTZ, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1998

DATE	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 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)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
280713082300900 ROUND LAKE NO. 4 NR LUTZ, FL (LAT 28 07 13N LONG 082 30 09W)								
OCT 1996								
04...	<.020	.010	.25	<.020	<.010	71	--	--
280716082300100 ROUND LAKE NO. 1 NR LUTZ, FL (LAT 28 07 16N LONG 082 30 01W)								
OCT 1996								
04...	<.020	.010	.25	<.020	<.010	69	--	--
NOV 1997								
05...	<.020	.020	.28	<.020	<.010	72	.7	.48
DEC								
03...	--	--	--	--	--	--	-1.9	.39
JUN 1998								
03...	--	--	--	--	--	59	3.0	.88

TAMPA BAY AND COASTAL AREAS

02306600 LAKE CARROLL NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'58", long 82°29'08", in NE¹/₄ 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 mi²).

DRAINAGE AREA.--1.66 mi².

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, 37.88 ft, Dec. 17; minimum observed, 35.48 ft, July 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	35.80	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	35.48	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	36.83	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	37.88	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	35.62	---	---	---	---
20	---	36.80	---	---	---	---	---	---	---	---	36.60	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	37.56	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	35.54	---	36.84	---
26	---	---	---	---	---	37.04	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	37.10	---	---	---	---	---	36.48	---	---
29	---	---	---	---	---	---	35.94	---	---	---	---	37.34
30	36.14	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	36.68	---	---	---	---	---	---

02306704 LAKE HARVEY NEAR LUTZ, FL

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 63.90 ft, Dec. 15; minimum observed, 59.72 ft, July 8.

[illegible]

02306723 TURKEY FORD LAKE NEAR LUTZ, FL

[illegible]

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02306767 HALFMOON LAKE NEAR CITRUS PARK, FL

LOCATION.--Lat 28°05'52", long 82°32'54", in NW¹/₄ 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 mi²).

DRAINAGE AREA.--0.22 mi².

ELEVATION RECORDS

PERIOD OF RECORD.--October 1996 to current year (incomplete).

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 YEAR.--Maximum elevation, 46.19 ft, Feb. 19-22; minimum, 41.61 ft, July 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.89	42.39	42.73	45.24	45.67	45.74	43.96	43.35	42.64	41.82	43.01	43.38
2	41.94	42.42	42.72	45.25	45.70	45.63	43.95	43.33	42.62	41.79	43.01	43.37
3	41.96	42.42	42.72	45.23	46.00	45.41	43.94	43.29	42.60	41.75	42.99	43.45
4	41.96	42.42	42.95	45.23	46.01	45.28	43.93	43.27	42.57	41.72	42.97	43.52
5	41.95	42.42	43.03	45.23	45.96	45.09	43.91	43.26	42.54	41.68	43.01	43.51
6	41.94	42.41	43.03	45.25	45.91	44.90	43.88	43.24	42.51	41.65	43.06	43.51
7	41.93	42.41	43.03	45.36	45.87	44.71	43.87	43.22	42.48	41.73	43.11	43.56
8	41.92	42.40	43.03	45.52	45.83	44.50	43.85	43.20	42.44	42.02	43.29	43.57
9	41.91	42.39	43.04	45.58	45.81	44.45	43.84	43.18	42.41	42.02	43.31	43.59
10	41.89	42.39	43.11	45.58	45.78	44.25	43.82	43.15	42.40	42.22	43.36	43.57
11	41.87	42.38	43.26	45.57	45.74	44.04	43.79	43.12	42.39	42.43	43.36	43.53
12	41.86	42.38	43.34	45.57	45.70	43.86	43.76	43.09	42.36	42.48	43.35	43.51
13	41.84	42.42	43.95	45.56	45.65	43.66	43.74	43.06	42.33	42.54	43.33	43.49
14	41.83	42.68	44.09	45.56	45.62	43.45	43.72	43.03	42.30	42.54	43.31	43.47
15	41.82	42.72	44.09	45.59	45.60	43.26	43.71	43.00	42.26	42.65	43.31	43.47
16	41.80	42.73	44.11	45.64	45.94	43.11	43.69	42.97	42.23	42.74	43.32	43.46
17	41.79	42.72	44.11	45.63	46.17	43.07	43.67	42.94	42.19	42.81	43.33	43.45
18	41.84	42.71	44.12	45.62	46.18	43.08	43.65	42.91	42.15	42.81	43.32	43.48
19	41.91	42.71	44.15	45.62	46.18	43.42	43.63	42.88	42.12	42.81	43.36	43.55
20	41.89	42.71	44.16	45.61	46.19	43.99	43.61	42.85	42.08	42.90	43.39	43.75
21	41.88	42.71	44.16	45.60	46.19	44.01	43.59	42.82	42.06	43.08	43.40	43.84
22	41.86	42.71	44.16	45.60	46.18	44.01	43.56	42.79	42.05	43.15	43.43	43.76
23	41.85	42.71	44.16	45.68	46.14	44.01	43.53	42.76	42.03	43.15	43.44	43.75
24	41.84	42.70	44.16	45.75	46.06	44.01	43.49	42.73	42.02	43.14	43.42	43.81
25	41.86	42.69	44.28	45.74	45.96	44.01	43.47	42.70	41.99	43.13	43.41	43.78
26	41.86	42.68	44.50	45.73	45.86	44.00	43.44	42.69	41.96	43.12	43.39	43.85
27	41.90	42.68	44.97	45.74	45.77	44.00	43.42	42.69	41.93	43.10	43.37	43.82
28	41.96	42.67	45.10	45.72	45.76	43.99	43.40	42.69	41.92	43.08	43.37	43.80
29	41.95	42.67	45.13	45.71	---	43.98	43.37	42.69	41.89	43.06	43.42	43.76
30	41.94	42.71	45.17	45.70	---	43.97	43.36	42.67	41.86	43.04	43.41	43.75
31	42.05	---	45.20	45.69	---	43.97	---	42.66	---	43.02	43.39	---
MEAN	41.89	42.57	43.86	45.55	45.91	44.16	43.69	42.98	42.24	42.55	43.29	43.60
MAX	42.05	42.73	45.20	45.75	46.19	45.74	43.96	43.35	42.64	43.15	43.44	43.85
MIN	41.79	42.38	42.72	45.23	45.60	43.07	43.36	42.66	41.86	41.65	42.97	43.37

WTR YR 1998 MEAN 43.51 MAX 46.19 MIN 41.65

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

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TAMPA BAY AND COASTAL AREAS

02306767 HALFMOON LAKE NEAR CITRUS PARK, FL--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, PERIOD MARCH 1996 TO SEPTEMBER 1998

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	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)
280545082324900 HALFMOON LAKE NO. 5 NR CITRUS PARK, FL (LAT 28 05 45N LONG 082 32 49W)									
MAR 1996									
27...	1400	2.00	211	6.2	21.8	10	--	9.6	3.9
280545082325700 HALFMOON LAKE NO. 4 NR CITRUS PARK, FL (LAT 28 05 45N LONG 082 32 57W)									
MAR 1996									
27...	1350	2.00	--	--	--	--	--	--	--
280552082324800 HALFMOON LAKE NO. 3 NR CITRUS PARK, FL (LAT 28 05 52N LONG 082 32 48W)									
MAR 1996									
27...	1345	2.00	--	--	--	10	--	9.5	3.7
OCT									
04...	1300	2.00	--	--	--	10	--	8.6	3.4
280555082325400 HALFMOON LAKE NO. 2 NR CITRUS PARK, FL (LAT 28 05 55N LONG 082 32 54W)									
MAR 1996									
27...	1335	2.00	--	--	--	--	--	--	--
OCT									
04...	1230	2.00	209	6.8	28.6	10	6.8	8.7	3.5
280555082330000 HALFMOON LAKE NO.1 NR CITRUS PARK, FL (LAT 28 05 55N LONG 082 33 00W)									
MAR 1996									
27...	1330	2.00	211	6.1	21.8	10	--	11	3.9
OCT									
04...	1200	2.00	209	6.8	28.9	10	6.8	8.9	3.6
DEC 1997									
15...	1100	2.00	188	6.0	18.1	5	5.3	8.8	3.4
JUN 1998									
05...	1200	2.00	181	6.2	31.7	--	6.6	8.9	2.9
12...	1205	2.00	181	6.2	31.7	--	6.6	9.1	3.0

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02306767 HALFMOON LAKE NEAR CITRUS PARK, FL--Continued

WATER QUALITY DATA, PERIOD MARCH 1996 TO SEPTEMBER 1998

DATE	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)	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)
280545082324900	HALFMOON LAKE NO. 5 NR CITRUS PARK, FL (LAT 28 05 45N LONG 082 32 49W)							
MAR 1996								
27...	18	3.2	31	32	.10	.10	128	<.010
280545082325700	HALFMOON LAKE NO. 4 NR CITRUS PARK, FL (LAT 28 05 45N LONG 082 32 57W)							
MAR 1996								
27...	--	--	--	--	--	--	--	<.010
280552082324800	HALFMOON LAKE NO. 3 NR CITRUS PARK, FL (LAT 28 05 52N LONG 082 32 48W)							
MAR 1996								
27...	18	3.1	31	32	.10	.090	122	<.010
OCT								
04...	18	3.0	26	34	.10	.30	142	<.010
280555082325400	HALFMOON LAKE NO. 2 NR CITRUS PARK, FL (LAT 28 05 55N LONG 082 32 54W)							
MAR 1996								
27...	--	--	--	--	--	--	--	<.010
OCT								
04...	19	3.1	26	34	.10	.40	136	<.010
280555082330000	HALFMOON LAKE NO.1 NR CITRUS PARK, FL (LAT 28 05 55N LONG 082 33 00W)							
MAR 1996								
27...	18	3.2	31	32	.10	.10	116	<.010
OCT								
04...	19	3.0	26	34	.10	.40	128	<.010
DEC 1997								
15...	19	3.3	27	34	.10	1.0	124	<.010
JUN 1998								
05...	17	3.1	21	29	.11	.40	114	--
12...	17	3.2	21	30	.10	.40	112	--

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

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TAMPA BAY AND COASTAL AREAS

02306767 HALFMOON LAKE NEAR CITRUS PARK, FL--Continued

WATER QUALITY DATA, PERIOD MARCH 1996 TO SEPTEMBER 1998

DATE	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 TOTAL (MG/L AS P) (70507)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
280545082324900	HALFMOON LAKE NO. 5 NR CITRUS PARK, FL (LAT 28 05 45N LONG 082 32 49W)							
MAR 1996								
27...	<.020	.030	.47	.020	<.010	51	--	--
280545082325700	HALFMOON LAKE NO. 4 NR CITRUS PARK, FL (LAT 28 05 45N LONG 082 32 57W)							
MAR 1996								
27...	<.020	.030	.48	.020	<.010	--	--	--
280552082324800	HALFMOON LAKE NO. 3 NR CITRUS PARK, FL (LAT 28 05 52N LONG 082 32 48W)							
MAR 1996								
27...	<.020	.030	.46	.020	<.010	51	--	--
OCT								
04...	<.020	.020	.53	<.020	<.010	48	--	--
280555082325400	HALFMOON LAKE NO. 2 NR CITRUS PARK, FL (LAT 28 05 55N LONG 082 32 54W)							
MAR 1996								
27...	<.020	.030	.47	.020	<.010	--	--	--
OCT								
04...	<.020	.020	.50	<.020	<.010	48	--	--
280555082330000	HALFMOON LAKE NO.1 NR CITRUS PARK, FL (LAT 28 05 55N LONG 082 33 00W)							
MAR 1996								
27...	<.020	.030	.47	.020	<.010	51	--	--
OCT								
04...	<.020	.020	.49	<.020	<.010	50	--	--
DEC 1997								
15...	.090	.130	.58	.020	<.010	49	4.5	1.39
JUN 1998								
05...	--	--	--	--	--	45	7.8	1.56
12...	--	--	--	--	--	45	6.9	1.71

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02306788 DOSSON LAKE NEAR LUTZ, FL

LOCATION.--Lat 28°07'27", long 82°31'34", in NW¹/₄ 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 mi²).

DRAINAGE AREA.--0.7 mi², approximately.

ELEVATION RECORDS

PERIOD OF RECORD.--June 1971 to September 1983 (twice weekly), incomplete; October 1996 to current year (incomplete).

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.

REMARKS.--Lake is in the Lutz well field.

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 YEAR.--Maximum elevation, 55.09 ft, Dec. 13; minimum, 50.47 ft, July 4, 5.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.11	54.05	---	53.94	---	53.74	53.17	---	51.55	50.58	51.95	52.91
2	53.15	54.11	---	53.81	---	53.70	53.13	52.36	51.52	50.54	51.98	52.90
3	53.17	54.04	---	53.71	54.00	53.63	53.09	52.29	51.49	50.51	51.97	52.98
4	53.17	53.94	53.78	53.66	54.08	53.54	53.06	52.26	51.45	50.48	51.95	53.09
5	53.15	53.84	53.94	53.65	53.98	53.47	53.03	52.26	51.42	50.48	52.02	53.09
6	53.13	53.76	53.89	53.66	53.87	53.41	53.00	52.23	51.39	50.50	52.29	53.13
7	53.10	53.69	53.81	54.00	53.79	53.37	52.97	52.21	51.35	50.56	52.52	53.57
8	53.07	53.66	53.73	54.29	53.68	53.33	52.94	52.18	51.30	50.71	53.01	53.72
9	53.04	---	53.69	54.31	53.61	53.63	52.92	52.15	51.26	50.74	---	53.93
10	53.01	---	53.74	54.14	53.53	53.64	52.90	52.12	51.22	51.03	---	53.93
11	52.98	---	54.21	53.97	53.49	53.58	52.87	52.08	51.19	51.35	---	53.87
12	52.95	---	54.56	53.82	53.45	53.51	52.84	52.04	51.15	51.39	---	53.79
13	52.93	---	54.93	53.72	53.42	53.44	52.82	52.01	51.11	51.43	---	53.70
14	52.90	53.94	54.95	53.67	53.41	53.39	52.80	51.98	51.08	51.44	53.08	53.63
15	52.88	54.06	54.67	53.65	53.39	53.35	52.78	51.94	51.04	51.57	53.07	53.58
16	52.86	53.98	54.41	53.67	54.10	53.31	52.76	51.90	51.00	51.75	53.07	53.51
17	52.84	53.87	54.19	---	54.71	53.26	52.73	51.86	50.96	51.86	53.14	53.46
18	52.88	53.79	54.01	---	54.55	53.23	52.70	51.83	50.92	51.87	53.19	53.45
19	52.97	53.71	53.86	---	54.33	53.66	52.67	51.80	50.88	51.86	53.19	53.51
20	52.95	53.67	53.75	---	54.48	54.57	52.65	51.76	50.84	51.90	53.18	54.03
21	52.93	---	53.68	---	54.30	54.40	52.63	51.71	50.82	52.08	53.16	54.79
22	52.90	---	53.65	---	54.11	54.19	52.61	51.68	50.82	52.16	53.15	54.56
23	52.89	---	53.65	---	53.96	53.99	52.58	51.64	50.79	52.16	53.16	54.39
24	52.87	---	53.65	---	53.82	53.82	52.55	51.61	50.77	52.14	53.13	54.57
25	52.86	---	53.69	---	53.72	53.69	52.51	51.58	50.74	52.12	53.10	54.44
26	52.85	---	54.09	---	53.66	53.65	52.49	51.56	50.70	52.09	53.07	54.48
27	52.90	---	54.85	---	53.65	53.65	52.48	51.59	50.68	52.06	53.04	54.37
28	52.99	---	54.85	---	53.67	53.37	52.47	51.59	50.68	52.03	53.02	54.20
29	52.98	---	54.55	---	---	53.30	---	51.60	50.65	52.01	52.99	54.02
30	52.97	---	54.31	---	---	53.25	---	51.58	50.61	51.98	52.97	---
31	53.17	---	54.12	---	---	53.21	---	51.58	---	51.96	52.94	---
MEAN	52.99	---	---	---	---	53.59	---	---	51.05	51.46	---	---
MAX	53.17	---	---	---	---	54.57	---	---	51.55	52.16	---	---
MIN	52.84	---	---	---	---	53.21	---	---	50.61	50.48	---	---

TAMPA BAY AND COASTAL AREAS

02306788 DOSSON LAKE NEAR LUTZ, FL--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1998

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	
280720082313200 DOSSON LAKE NO. 2 NR LUTZ, FL (LAT 28 07 20N LONG 082 31 32W)										
OCT 1996 07...	1230	2.00	108	6.2	--	26.1	140	3.8	6.3	
280726082313300 DOSSON LAKE NO. 1 NR LUTZ, FL (LAT 28 07 26N LONG 082 31 33W)										
OCT 1996 07...	1200	2.00	109	6.5	--	26.0	120	3.3	6.3	
MAR 1997 27...	1345	2.00	112	7.4	--	27.4	20	--	6.3	
NOV 06...	1300	2.00	106	6.4	--	25.7	140	8.6	5.6	
JUN 1998 05...	1700	2.00	58	7.4	32.9	32.9	--	7.3	6.5	
DATE		MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, TOTAL (MG/L AS N) (00615)
280720082313200 DOSSON LAKE NO. 2 NR LUTZ, FL (LAT 28 07 20N LONG 082 31 32W)										
OCT 1996 07...	1.4	9.5	1.7	3.9	16	.10	1.9	98	<.010	
280726082313300 DOSSON LAKE NO. 1 NR LUTZ, FL (LAT 28 07 26N LONG 082 31 33W)										
OCT 1996 07...	1.4	9.9	1.7	3.9	16	.10	2.0	96	<.010	
MAR 1997 27...	1.5	9.9	1.7	4.8	18	.10	.40	96	<.010	
NOV 06...	1.4	8.8	1.6	7.2	14	<.10	3.1	82	<.010	
JUN 1998 05...	.94	4.9	1.3	3.7	7.5	<.10	1.2	74	--	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02306788 DOSSON LAKE NEAR LUTZ, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1998

DATE	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)	H-2 / H-1 STABLE ISOTOPE RATIO MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO MIL (82085)
280720082313200 DOSSON LAKE NO. 2 NR LUTZ, FL (LAT 28 07 20N LONG 082 31 32W)								
OCT 1996								
07...	<.020	.010	1.1	<.020	.010	19	--	--
280726082313300 DOSSON LAKE NO. 1 NR LUTZ, FL (LAT 28 07 26N LONG 082 31 33W)								
OCT 1996								
07...	<.020	.010	1.3	<.020	.010	20	--	--
MAR 1997								
27...	<.020	.030	1.5	.130	<.010	20	--	--
NOV								
06...	<.020	.060	1.3	.060	.020	19	-3.1	-.37
JUN 1998								
05...	--	--	--	--	--	18	-.5	-.27

[illegible]

02307242 KEYSTONE LAKE NEAR ODESSA, FL

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 42.50 ft, Dec. 17; minimum observed, 39.57 ft, July 1.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

[illegible]

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

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TAMPA BAY AND COASTAL AREAS

02307696 ALLIGATOR LAKE AT SAFETY HARBOR, FL

LOCATION.--Lat 27°58'45", long 82°41'43", in NW¹/₄ 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 mi²).

DRAINAGE AREA.--9.0 mi², 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, 5.50 ft, Jan. 28; minimum observed, 5.07 ft, June 5, July 2.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

Oct. 07	5.17	June 05.....	5.07
Dec. 09	5.22	July 02.....	5.07
Jan. 28	5.50	Aug. 21.....	5.29
Mar. 31	5.17		

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02308000 SAWGRASS LAKE NEAR PINELLAS PARK, FL

LOCATION.--Lat 27°50'32", long 82°39'49", in SE¹/₄ 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 mi²).

DRAINAGE AREA.--3.97 mi².

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, 5.00 ft, Jan. 28; minimum observed, 3.66 ft, June 5.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

Oct. 07	4.45	June 05.....	3.66
Dec. 10	4.76	July 07.....	4.19
Jan. 28	5.00	Aug. 21.....	3.95
Mar. 31	4.08		

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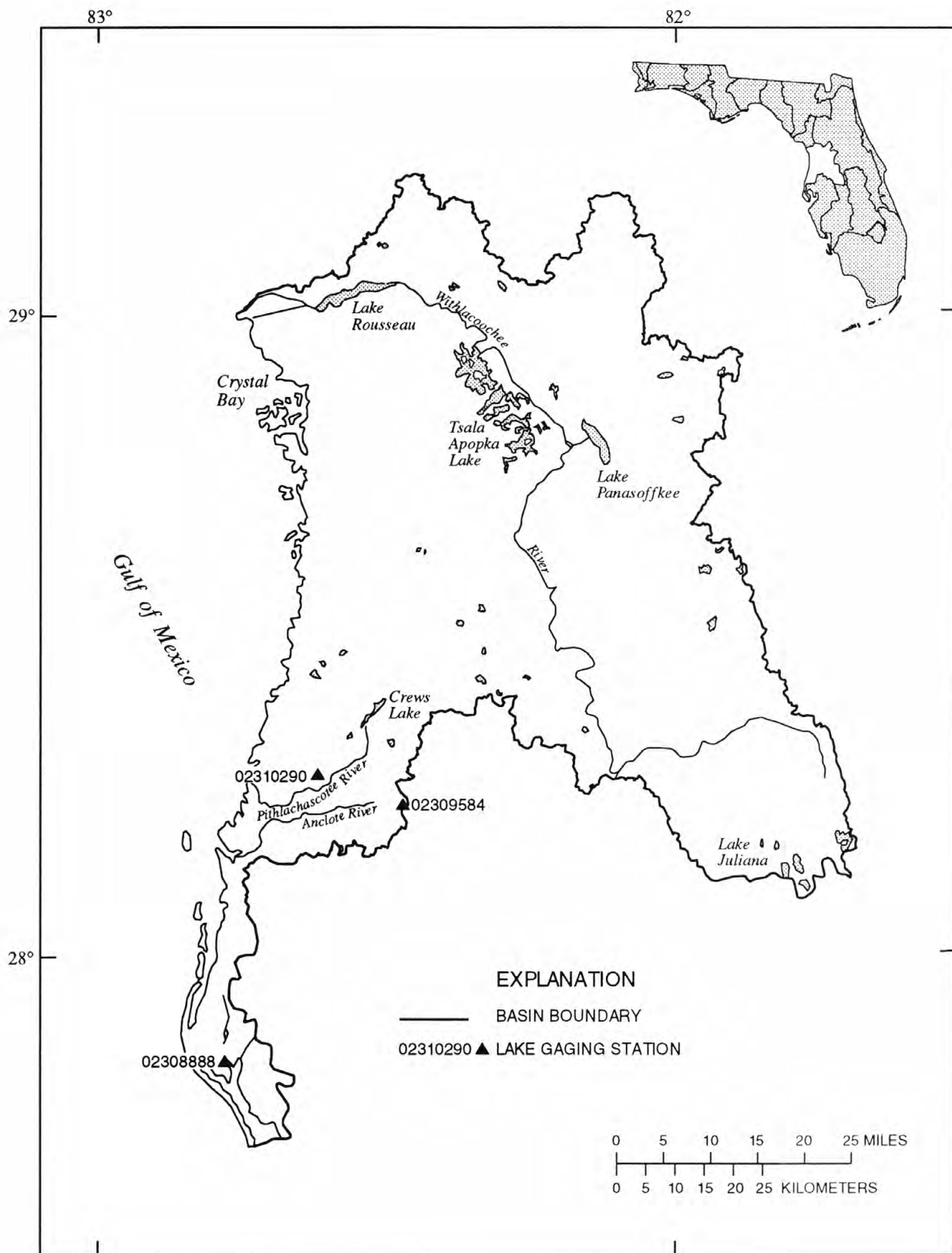


Figure 20.--Location of lake gaging stations in the Coastal area from Tampa Bay to Withlacoochee River.

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

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COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02308888 SEMINOLE LAKE NEAR LARGO, FL

LOCATION.--Lat 27°50'20", long 82°46'50", in SE¹/₄ 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 mi²).

DRAINAGE AREA.--6.94 mi².

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, Jan. 28; minimum observed, 4.19 ft, July 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

Oct. 07	4.96	June 05.....	4.27
Dec. 10	5.07	July 07.....	4.19
Jan. 28	5.10	Aug. 21.....	4.38
Mar. 31	4.97		

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309584 LAKE THOMAS AT DREXEL, FL

LOCATION.--Lat 28°14'14", long 82°28'08", in NE¹/₄ 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 mi²).

DRAINAGE AREA.--1.0 mi², 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, 74.88 ft, Feb. 6; minimum observed, 72.60 ft, June 24.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

[illegible]

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

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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 NW¹/₄ 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 mi²).

DRAINAGE AREA.--0.37 mi².

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, 41.17 ft, Mar. 9; minimum observed, 35.75 ft, Oct. 24.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.07	---	36.53	---	---	---	---	40.14	39.61	39.11	---	---
2	---	---	---	38.91	39.93	41.02	---	---	---	---	---	39.44
3	36.01	36.37	36.53	---	40.20	---	---	---	39.57	39.03	---	---
4	---	---	---	---	40.19	40.92	---	40.09	39.55	---	---	---
5	---	36.37	36.75	38.97	---	---	---	---	39.53	---	39.47	---
6	35.98	---	---	---	40.19	40.92	40.62	40.07	---	38.97	---	---
7	---	36.35	---	39.32	---	---	---	---	---	---	39.46	---
8	35.99	---	36.77	---	---	---	40.59	40.06	39.45	38.97	---	---
9	---	---	---	39.53	40.17	41.17	---	---	---	---	---	---
10	35.96	36.33	36.82	---	---	---	40.57	---	39.43	39.19	39.45	---
11	---	---	---	---	40.17	41.09	---	39.97	---	---	---	39.93
12	---	36.31	37.35	39.57	---	---	---	---	39.35	---	39.44	---
13	35.91	---	---	---	40.15	41.02	40.53	39.93	---	39.21	---	---
14	---	36.47	---	39.59	---	---	---	---	---	---	39.44	39.91
15	35.85	---	37.85	---	---	---	40.43	39.89	39.25	39.37	---	---
16	---	---	---	39.77	40.87	40.92	---	---	---	---	---	39.87
17	35.83	36.45	38.05	---	---	---	40.37	---	39.21	39.43	39.43	---
18	---	---	---	---	40.87	40.80	---	39.83	---	---	---	39.92
19	---	36.45	38.05	39.87	---	---	---	---	39.15	---	39.42	---
20	35.81	---	---	---	41.07	---	40.32	39.77	---	39.45	39.55	---
21	---	36.43	---	39.87	---	---	---	---	---	---	39.39	---
22	35.77	---	38.15	---	---	---	40.27	39.75	39.07	39.46	---	---
23	---	---	---	39.97	40.95	---	---	---	---	---	---	---
24	35.75	36.41	38.21	---	---	---	40.25	---	39.01	39.45	39.38	---
25	---	---	---	---	40.87	---	---	39.67	---	---	39.54	---
26	---	36.39	38.42	39.92	40.90	41.06	---	---	39.13	---	39.37	---
27	36.11	---	---	---	40.83	---	40.20	39.61	---	39.46	---	---
28	---	36.38	---	39.97	---	---	---	---	---	39.50	39.33	---
29	36.15	---	38.79	---	---	---	40.15	39.61	39.10	---	---	---
30	---	---	---	39.95	---	41.07	---	---	---	---	---	40.30
31	36.17	---	38.86	---	---	---	---	---	---	39.46	39.29	---

PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL--Continued

(National Water Quality Assessment program station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Note: Water quality samples for March 24, 1998, reflect flood conditions in the Peace River Basin.

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P, P' DDE DISSOLV (UG/L) (34653)	
MAR 1998 24...	1540	<.007	<.002	<.035	.365	<.018	E.0038	<.004	<.003	<.002	E.0020	
DATE		DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	2, 4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)
MAR 1998 24...	<.035	<.018	<.17	<.14	<.026	<.035	<.014	<.24	<.035	<.018	<.004	
DATE		ALKA- LINTY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	2, 4-D, DIS- SOLVED (UG/L) (39732)	2, 4, 5-T DIS- SOLVED (UG/L) (39742)	SILVEX, DIS- SOLVED (UG/L) (39762)
MAR 1998 24...	15.0	<.004	<.001	.0638	<.005	<.004	.0143	.0668	<.15	<.035	<.021	
DATE		ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	ACETO- CHLOR, WATER, FLTRD, GF 0.7U REC (UG/L) (49260)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)
MAR 1998 24...	<.002	<.25	<.035	<.002	<.05	<.31	.20	<.015	<.017	<.013	<.42	
DATE		DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DICHLOR BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- AMBN, WATER, FLTRD, GF 0.7U REC (UG/L) (49307)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	CARBO- FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CAR- BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)
MAR 1998 24...	.38	<.035	<.032	<1.2	<.017	<.23	<.48	<.42	<.014	<.12	<.008	
DATE		BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI- CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	2, 6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAR 1998 24...	<.035	<.55	<.1	<.021	<.035	<.004	<.003	E.0029	<.004	<.002	<.007	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL--Continued
 (National Water Quality Assessment program station)

WATER QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WATER WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WATER WAT PLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
MAR 1998 24...	<.002	<.006	<.002	<.004	<.010	<.004	<.003	E.0034	<.003	<.013	<.003
DATE	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WATER WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
MAR 1998 24...	<.017	<.001	<.004	E.0182	<.002	<.002	<.004	<.003	<.013	<.001	<.005

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
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
<i>Area</i>		
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
<i>Volume</i>		
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
<i>Flow</i>		
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
<i>Mass</i>		
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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