

CALENDAR FOR WATER YEAR 2002

2001

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

2002

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

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

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

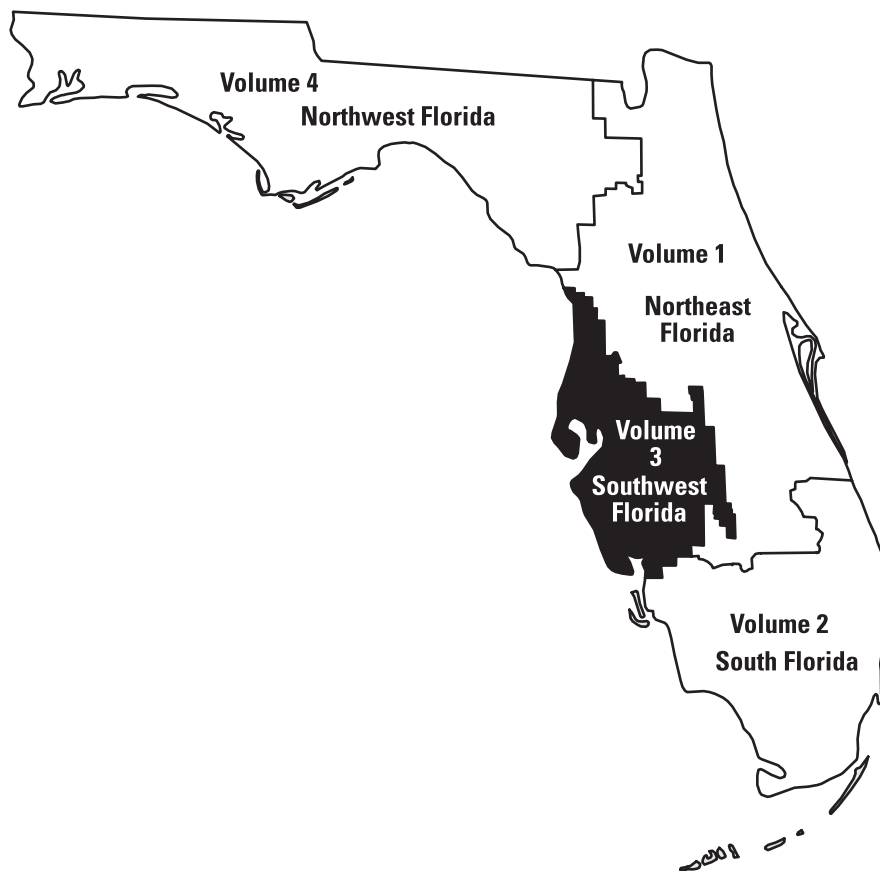
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U.S. Geological Survey

Water Resources Data Florida Water Year 2002

Volume 3A. Southwest Florida Surface Water

R.L. Kane and W.L. Fletcher

Water-Data Report FL-02-3A



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



UNITED STATES DEPARTMENT OF THE INTERIOR

Gale A. Norton, Secretary

U. S. GEOLOGICAL SURVEY

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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, and the Summary of Hydrologic Conditions was prepared by S. L. Lane under the supervision of R. L. Kane, 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 2002 water year in Florida consist of continuous or daily discharges for 392 streams, periodic discharge for 15 streams, continuous daily stage for 191 streams, periodic stage for 13 streams, peak stage for 33 streams and peak discharge for 33 streams, continuous or daily elevations for 14 lakes, periodic elevations for 49 lakes; continuous ground-water levels for 418 wells, periodic ground-water levels for 1,287 wells, and quality-of-water data for 116 surface-water sites and 291 wells.

The data for Southwest Florida include records of stage, discharge, and water quality of streams; stage, contents, water quality of lakes and reservoirs, and water levels and water quality of ground-water wells. Volume 3A contains continuous or daily discharge for 99 streams, periodic discharge for 11 streams, continuous or daily stage for 63 streams, peak stage and discharge for 7 streams, continuous or daily elevations for 2 lakes, periodic elevations for 26 lakes, and quality-of-water data for 59 surface-water sites.

These data represent the national Water Data System records collected by the U.S. Geological Survey and cooperating local, state, and federal agencies in Florida.

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

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

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Alligator Creek:	
Alligator Creek below US Hwy 19 at Clearwater (d,c,r).....	02307671 385
Alligator Lake at Safety Harbor (e)	02307696 517
Allen Creek near Largo (d,c,r).....	02307731 393
Upper Highlands Canal at Control near Pinellas Park (e,r).....	02307834 401
Upper Highlands Canal Below Control near Pinellas Park (e).....	02307835 402
Roosevelt Reservoir at Outfall near Pinellas Park (e)	02307836 403
 <u>03100207 COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER</u>	
Sawgrass Lake near Pinellas Park (e)	02308000 518
Bea Creek at Mango Avenue at Gulfport (e,c,r)	02308776 405
Pinebrook Canal at Bryan Dairy Rd at Pinellas Park (d,c,r).....	02308870 411
Seminole Lake near Largo (e)	02308888 521
Saint Joe Creek at Pinellas Park (d,c,r).....	02308935 419
Anclote River:	
Curlew Creek at Evans Road near Dunedin (d,c,r).....	02309415 425
Curlew Creek at County Road 1 near Ozona (d,c,r).....	02309425 433
Bee Branch at 15th Street at Palm Harbor (d,c,r)	02309445 441
Lake Thomas at Drexel (e)	02309584 522
South Branch Anclote River:	
South Branch Anclote River near Odessa (d)	02309848 447
Anclote River near Elfers (d)	02310000 448
Hollin Creek near Tarpon Springs (d).....	02310147 449
Crews Lake (head of Pithlachascotee River):	
Jumping Gully:	
Jumping Gully at Loyce (d)	02310240 450
Pithlachascotee River near Fivay Junction (d,c).....	02310280 451
Moon Lake near New Port Richey (e)	02310290 523
Pithlachascotee River near New Port Richey (d,c).....	02310300 453
Weeki Wachee Springs near Brooksville (e).....	02310500 455
Weeki Wachee River near Brooksville (d)	02310525 456
Gulf of Mexico near Bayport (e)	02310600 457
Chassahowitzka River near Homosassa (d).....	02310650 459
Homosassa Springs at Homosassa Springs (d).....	02310678 460
Southeast Fork Homosassa Spring at Homosassa Springs (d)	02310688 461
 Discharge at partial-record stations and miscellaneous sites.....	
Crest-stage partial-record stations	463
Measurements at miscellaneous sites	465
Analyses of samples collected at water-quality partial-record stations	
and miscellaneous sites	467
Elevation and water-quality of lakes.....	489

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Florida have been discontinued. Daily streamflow or stage records were collected and published for the period, expressed in water years, shown for each station. Those stations with an asterick (*) after the station number are currently operated as crest-stage partial-record stations.

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

Discontinued surface-water discharge or stage-only stations

Station name	Station number	Drainage area (mi ²)	Period of Record
CHARLOTTE HARBOR AND COASTAL AREAS			
North Prong Alligator Creek near Punta Gorda, FL (d)	02293390	8.46	1975
PEACE RIVER BASIN			
Peace Creek Drainage Canal near Alturas, FL (d) (e)	02293986	160	1947-71 1972-77
Williams Pond Clay Settling Area Outfall near Lakeland, FL (d)	280809081535800	0.80	1996-98
Lake Lulu Outlet at Eloise, FL (d) (e)	02294068	23	1946-72 1972-73
Tenoroc Ditch (site 19) near Lakeland, FL (d)	280651081502900	---	1996-99
Tenoroc Ditch (site 11) near Lakeland, FL (d)	280634081513200	---	1996-99
Tenoroc Ditch (site 13) near Lakeland, FL (d)	280557081512300	---	1996-99
Tenoroc Ditch above Structure (site 17A) near Lakeland, FL (e)	280531081520500	---	1996-99
Tenoroc Ditch below Structure (site 17A) near Lakeland, FL (d,e)	280531081520501	---	1996-99
Tenoroc Ditch (site 17B) near Lakeland, FL (d)	280441081520200	---	1996-99
Tenoroc Ditch (site 20) near Lakeland, FL (d)	280242081531600	---	1996-99
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
Hickory Creek near Ona, FL (d) (e)	02295755	3.75	1982-84 1982-84,1986-87
Oak Creek near Ona, FL (d, e)	02295850	15	1981-83
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

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Discontinued surface-water discharge or stage-only stations

Station name	Station number	Drainage area (mi ²)	Period of Record
PEACE RIVER BASIN--continued			
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
MYAKKA RIVER BASIN			
Myakka River above Myakka City, FL (d)	02298556	86.3	2001
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 Canal near North Port Charlotte, FL (e)	02299455	86.2	1989-91
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
Hickory Hammock Creek near Lorraine, FL (d)	02300034	2.4	1988-01
Cooper Creek at University Parkway near Sarasota, FL (d)	023000355	9.33	1988-01
Tributary No. 1 to Cooper Creek near Lorraine, FL (d)	02300036	4.3	1994-97

Discontinued surface-water discharge or stage-only stations

Station name	Station number	Drainage area (mi ²)	Period of Record
MANATEE RIVER BASIN--continued			
Cedar Creek near Sarasota, FL (d)	02300037	0.94	1988-01
Rattlesnake Creek near Sarasota, FL (d)	02300038	3.78	1988-01
Nonsense Creek near Sarasota, FL (d)	02300039	1.14	1988-01
Williams Creek near Bradenton, FL (d)	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
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
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

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Discontinued surface-water discharge or stage-only stations

Station name	Station number	Drainage area (mi ²)	Period of Record
TAMPA BAY AND COASTAL AREAS--continued			
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 Tributary at Clearwater, FL (d)	02307672	.27	1986-87
Alligator Creek at Clearwater, FL (d)	02307673	6.73	1980-87 1996
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
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

Discontinued surface-water discharge or stage-only stations

Station name	Station number	Drainage area (mi ²)	Period of Record
HILLSBOROUGH RIVER BASIN--continued			
Hillsborough River at Fowler Avenue near Temple Terrace, FL (e)	02304000	630a	1961-98
Hutchins Lake Outlet near Lutz, FL (d)	02305000	2.7	1946-52
Drainage Ditch at Bearss Avenue near Sulphur Springs, FL (d)	02305500	12	1946-56
Curiosity Creek near Sulphur Springs, FL (d)	02305780	1.37	1981-88
Drainage Ditch at Florida Ave. and Atlantic Blvd., near Sulphur Springs, FL (e)	02305800	14	1964-66
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER			
Saint Joe Creek at Lealman, FL (d)	02308931	2.00	1990-91
Anclote River near Odessa, FL (d)	02309980	68.1	1983-94
Bear Creek at Plaza Drive near Hudson, FL (d,e)	02310352	29.2	1970-77
Crab Creek near Homosassa, FL (e)	02310652	---	1998
Crystal River near Crystal River, FL (d)	02310750	---	1964-77
Chassahowitzka River above Johnson Creek near Chassahowitzka, FL (e)	284254082362300	---	1997-98
Homosassa River at Homosassa, FL (e)	02310700	---	1997-98
COASTAL AREA BETWEEN HILLSBOROUGH RIVER AND WITHLACOOCHEE RIVER			
Old Tampa Bay at Rocky Point at Tampa, FL (e)	02306100	---	1971-74
Brooker Creek near Odessa, FL (d) (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

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Discontinued surface-water discharge or stage-only stations

Station name	Station number	Drainage area (mi ²)	Period of Record
COASTAL AREA BETWEEN HILLSBOROUGH RIVER AND WITHLACOOCHEE RIVER--continued			
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

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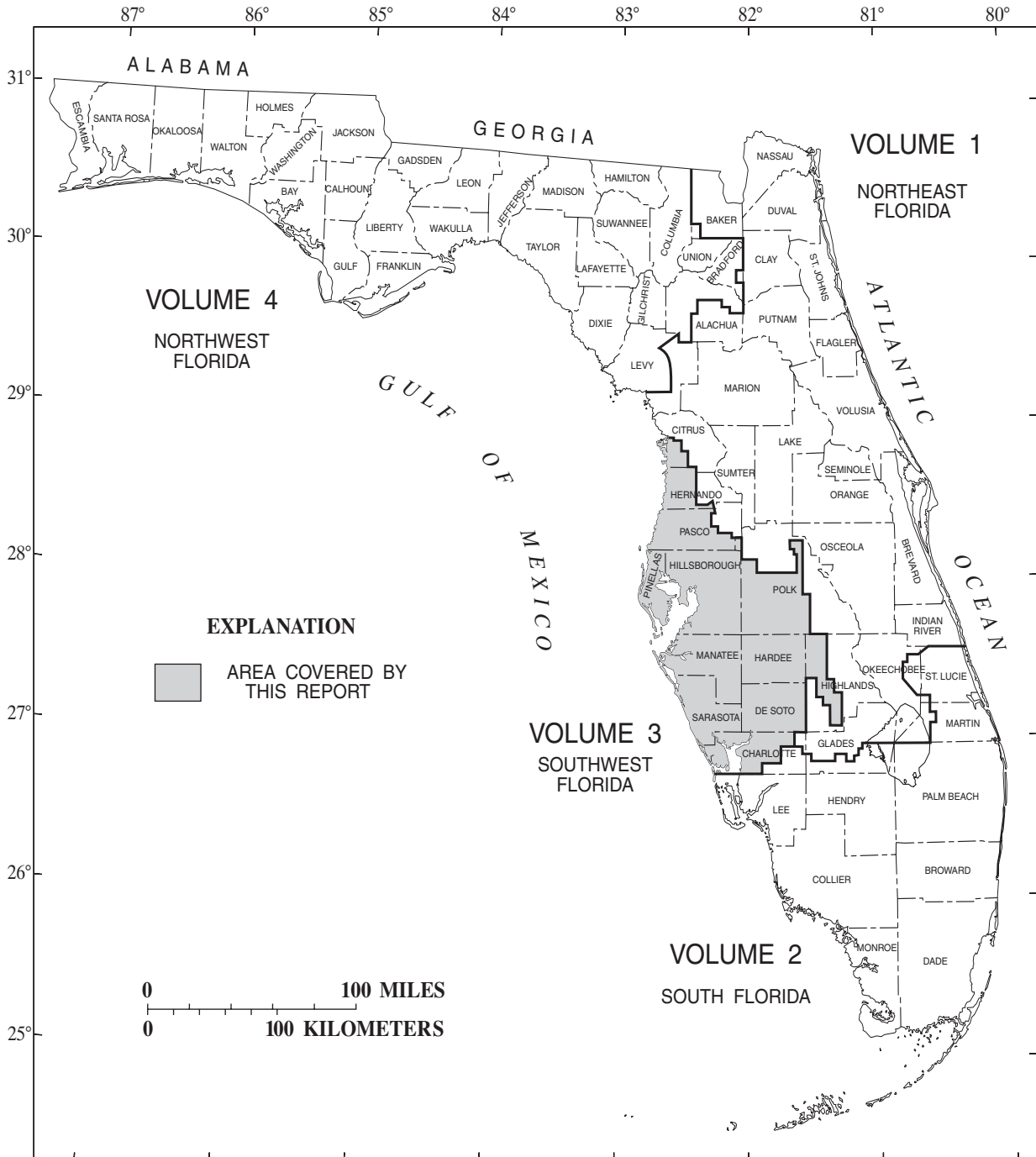


Figure 1.--Geographic area covered by this report.

INTRODUCTION

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

This report series includes records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; water level and water quality of estuaries; and water levels and water quality of ground-water wells. Volume 3A contains records for continuous daily discharge at 99 gaging stations; periodic discharge for 8 streams; continuous daily stage at 63 stream sites; peak stage and discharge at 8 stream sites; continuous daily elevations at 2 lakes; periodic elevations at 26 lakes; and water quality at 59 surface-water sites. Locations of these sites are shown on figure 1. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Florida.

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

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

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report FL-02-3A." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

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

COOPERATION

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

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

County of Pinellas
County of Sarasota
City of Bradenton
City of Sarasota
City of Tampa
Florida Department of Environmental
Protection

SUMMARY OF HYDROLOGIC CONDITIONS

During the 2002 water year, rainfall at 12 National Oceanic and Atmospheric Administration (NOAA) sites in southwest Florida (fig. 2) ranged from 38.62 inches at Parrish in Manatee County (site 18) to 66.18 inches at Archbold Biological Station in Highlands County (site 21). The 2002 water year total rainfall was lower at 8 long-term sites and higher at 4 long-term sites than the respective 30-year (1961-90) averages (normal rainfall). Total rainfall at the 12 sites ranged from 13.52 inches below the normal at Parrish (site 18) to 16.49 inches above the normal at Archbold Biological Station (site 21).

Monthly mean discharge for the Anclote River near Elfers (fig. 2, site 1) was below median flow through June, but above the median flow through the end of the water year (fig. 3). The 2002 water year annual mean discharge, 36 ft³/s, was 58 percent of the mean for the period of record, 62.5 ft³/s.

At Hillsborough River near Zephyrhills (fig. 2, site 2), monthly mean discharge was below the median flow through mid-June, increased above the median through mid-August, then decreased slightly below the median, then increased above the median in mid-September through the end of the water year (fig. 4). The 2002 water year annual mean discharge, 155 ft³/s, was 64 percent of the mean for the period of record, 241 ft³/s.

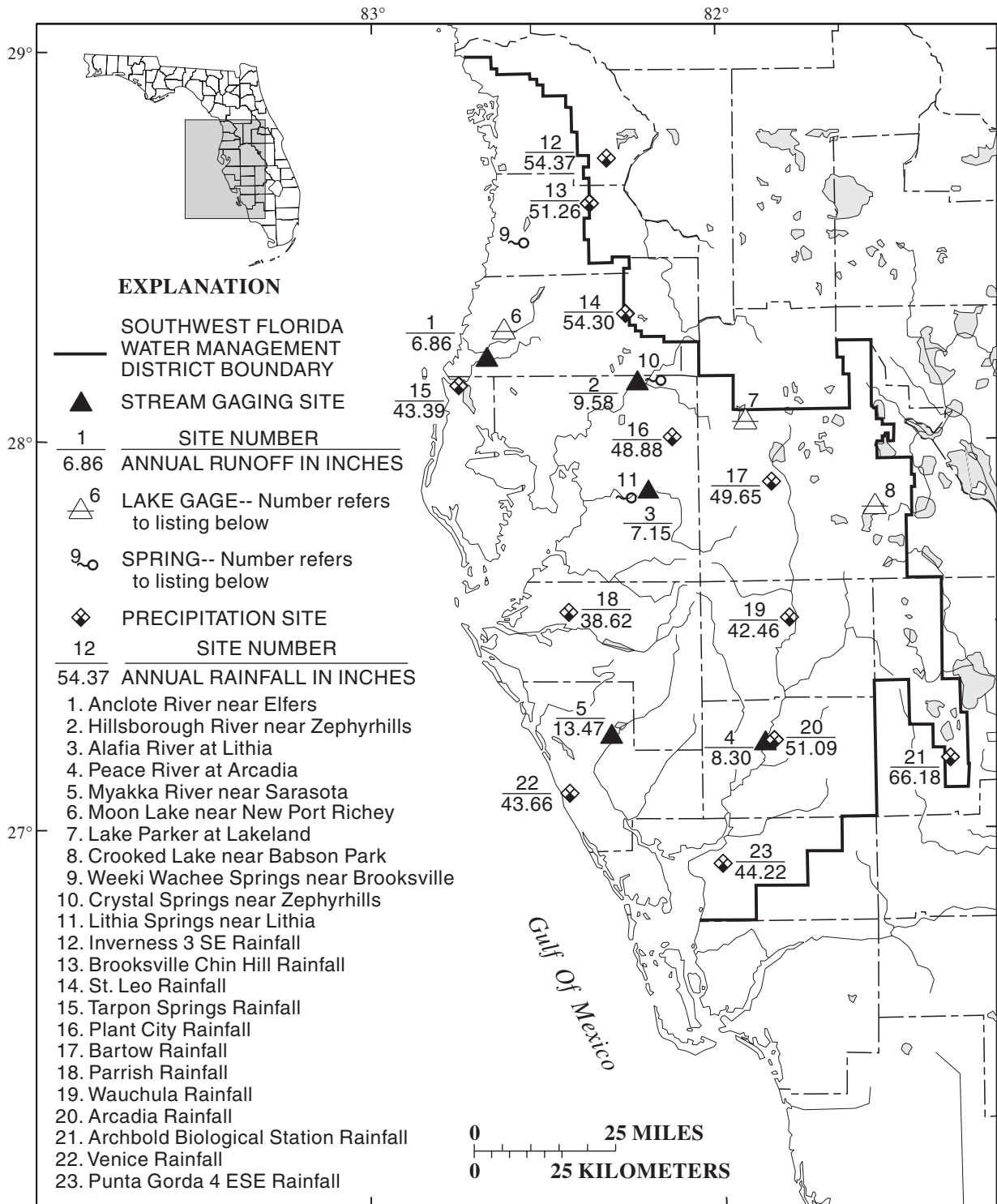
Monthly mean discharge at Alafia River at Lithia (fig. 2, site 3) was below the median discharge for the entire water year (fig. 5). The 2002 water year annual mean discharge, 176 ft³/s, was 53 percent of the mean for the period of record, 333 ft³/s.

Monthly mean discharge at Peace River at Arcadia (fig. 2, site 4) was below the median discharge through June, then increased above the median through mid-August, decreased below the median in late August, then increased above the median through the end of the water year (fig. 6). The 2002 water year annual mean discharge, 835 ft³/s, was 79 percent of the mean for the period of record, 1,062 ft³/s.

At Myakka River near Sarasota (fig. 2, site 5), monthly mean discharge remained at or slightly above the median discharge through mid-April, then decreased below the median through mid-May, then increased above the median through the end of the water year (fig. 7). The 2002 water year annual mean discharge, 227 ft³/s, was 90 percent of the mean for the period of record, 252 ft³/s.

Several large springs discharge into streams in the southwest Florida area. Weeki Wachee Springs near Brooksville (fig. 2, site 9) has been measured periodically since 1917 to define seasonal variation in flow. A daily discharge station established in October 1993 determines spring flow by the relation between artesian pressure at a nearby well and spring flow. Nine measurements made during the 2002 water year ranged from 110 ft³/s on May 30 to 169 ft³/s on August 22. The average of the 536 measurements made through the 2002 water year is 171 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 477 measurements made through the 2002 water year is 53.6 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 32 ft³/s on May 22 to 54 ft³/s on August 26, was from 2 to 5 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 2002 water year ranged from 18 ft³/s on May 20 to 65 ft³/s on November 5. The average of 242 measurements made since 1934 is 43.8 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 sites 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 for the entire water year. The 2002 water year annual mean stage, 35.30 ft above sea level, was lower than the mean for the period of record, 38.14 ft above sea level. Monthly mean lake stage in Lake Parker at Lakeland (fig. 9) was above or at the median through mid-March, decreased below the median through mid-June, then increased above the median through the end of the water year. The 2002 water year annual mean stage, 130.12 ft above sea level, was higher than the mean for the period of record, 129.97 ft above sea level. Monthly mean lake stage in Crooked Lake near Babson Park (fig. 10) was below the median for the entire water year. The 2002 water year annual mean stage, 114.58 ft above sea level, was lower than the mean for the period of record, 115.75 ft above sea level.



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

Figure 2.--Hydrologic conditions index map.

ANCLOTE RIVER NEAR ELFERS, FLORIDA
 SITE 02310000

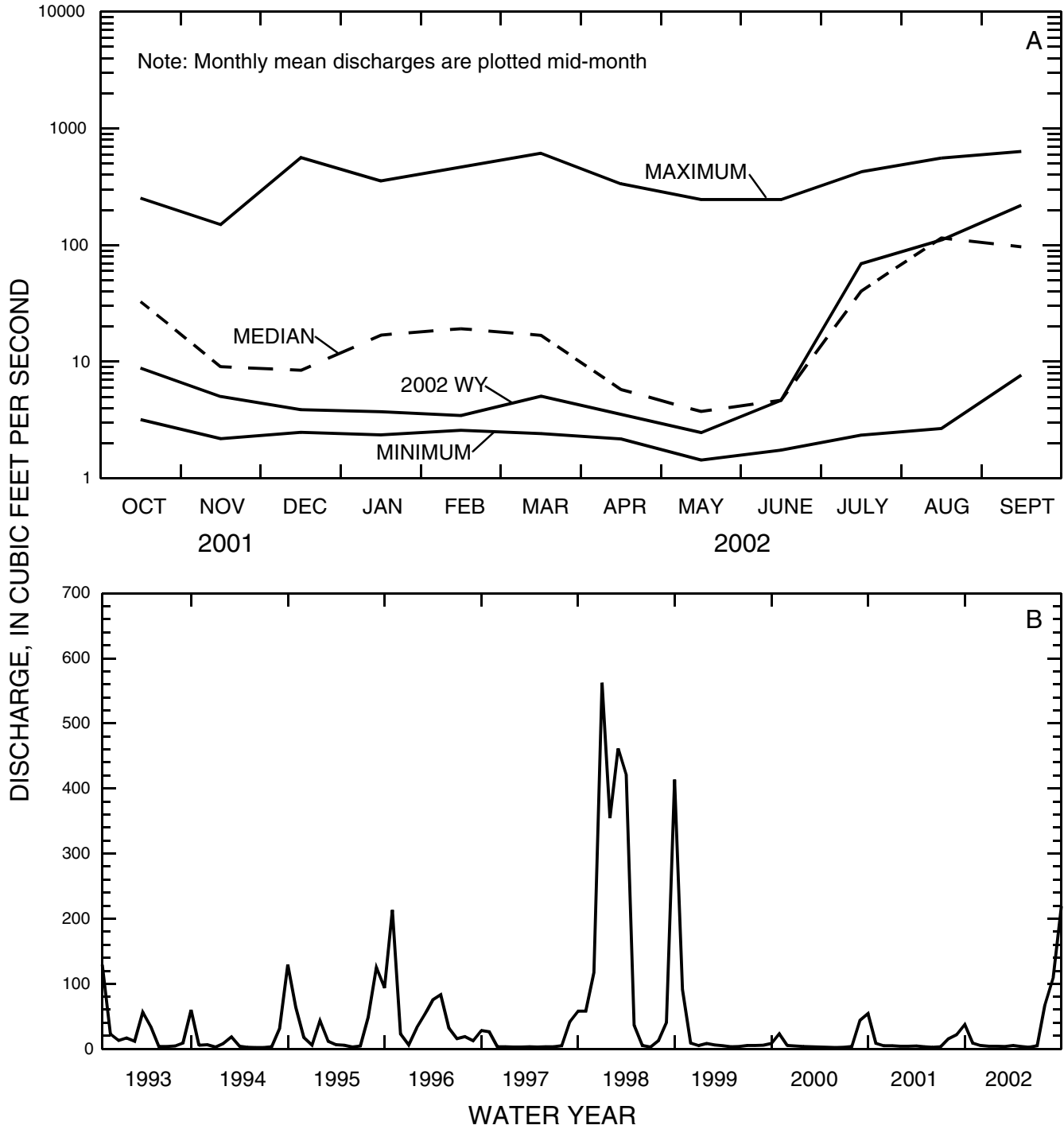


Figure 3.--Anclote River near Elfers (A) 2002 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1993-2002.

HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FLORIDA
SITE 02303000

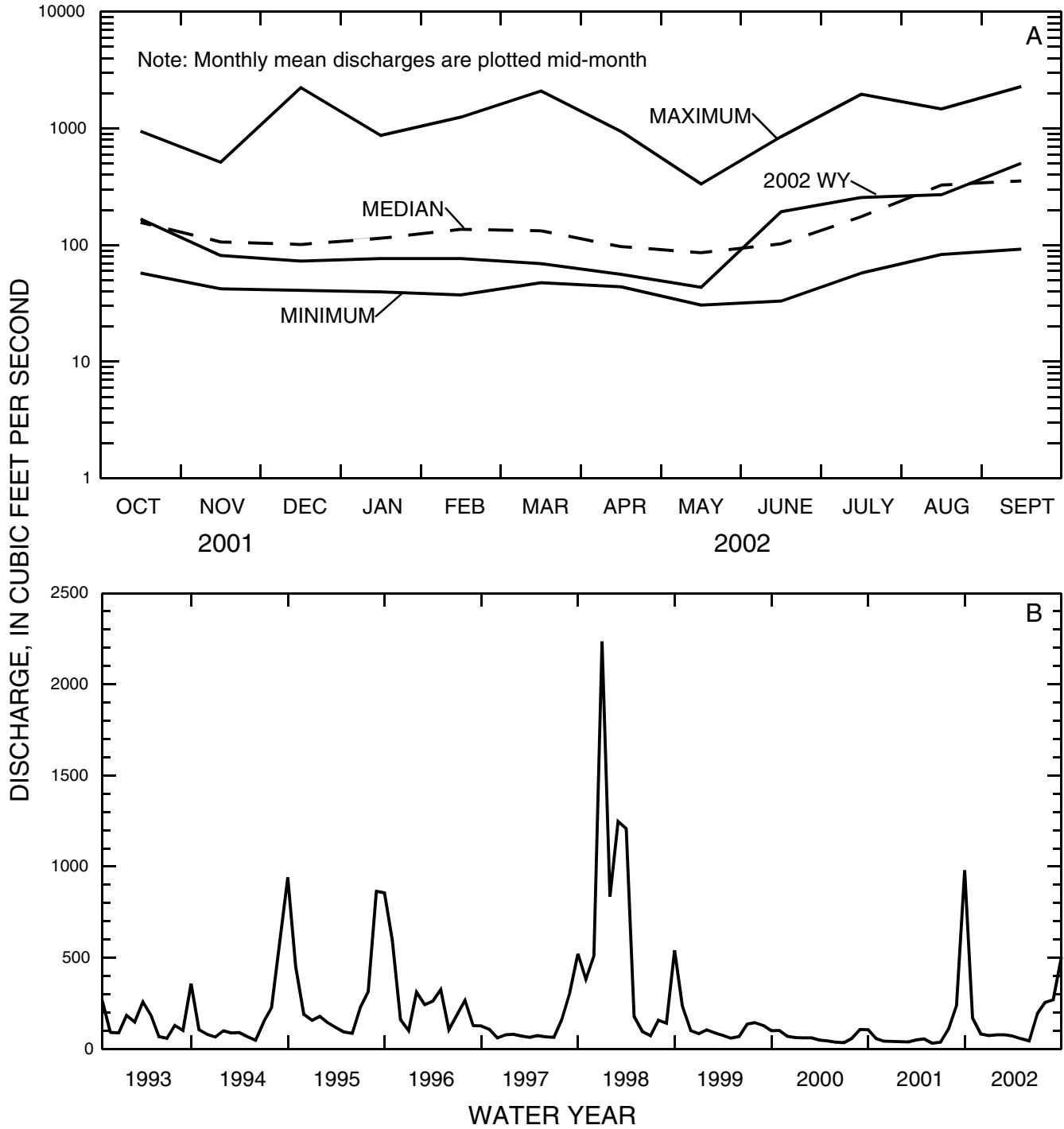


Figure 4.--Hillsborough River near Zephyrhills (A) 2002 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1993-2002.

ALAFIA RIVER AT LITHIA, FLORIDA

SITE 02301500

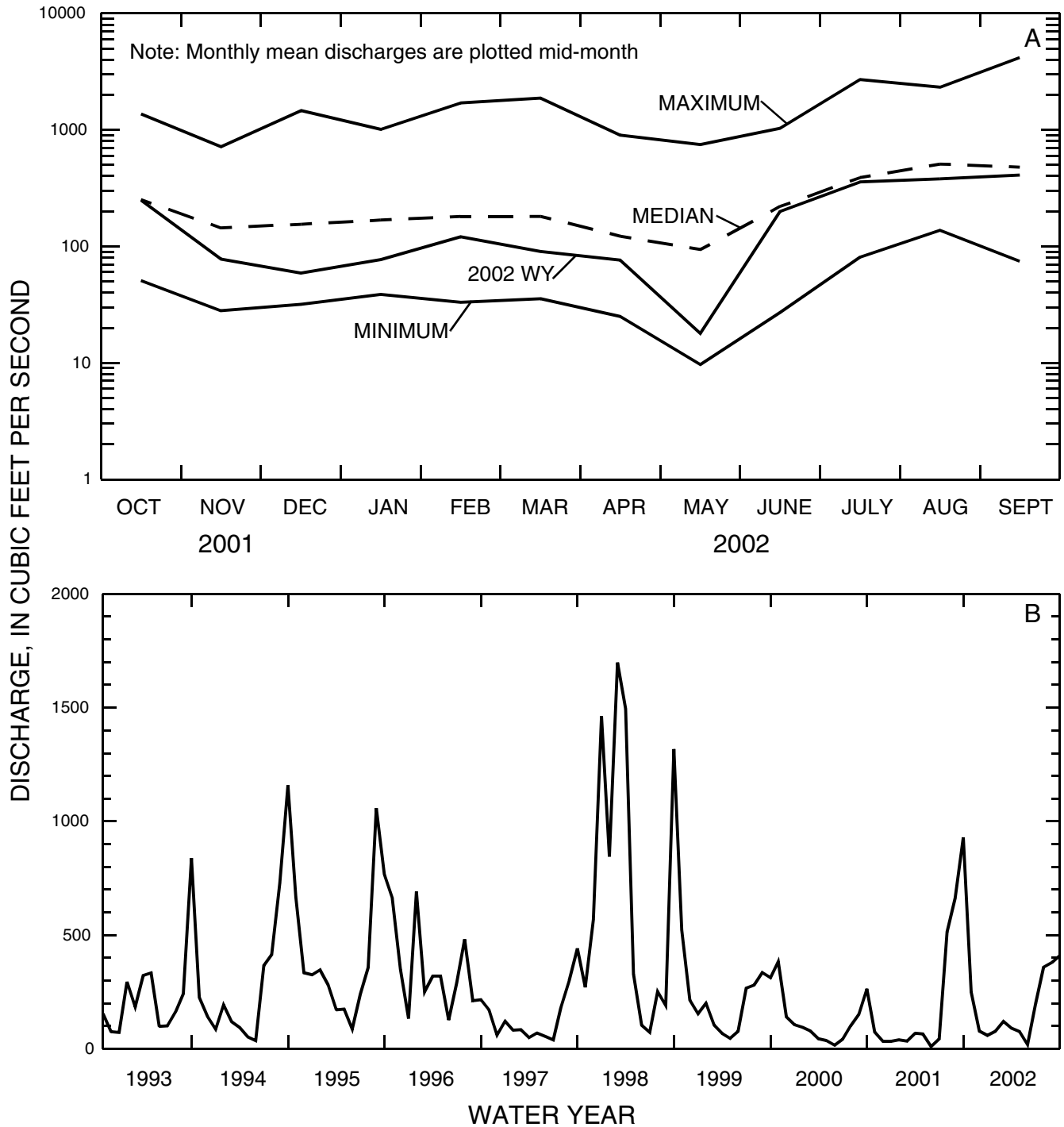


Figure 5.--Alafia River at Lithia (A) 2002 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1993-2002.

PEACE RIVER AT ARCADIA, FLORIDA

SITE 02296750

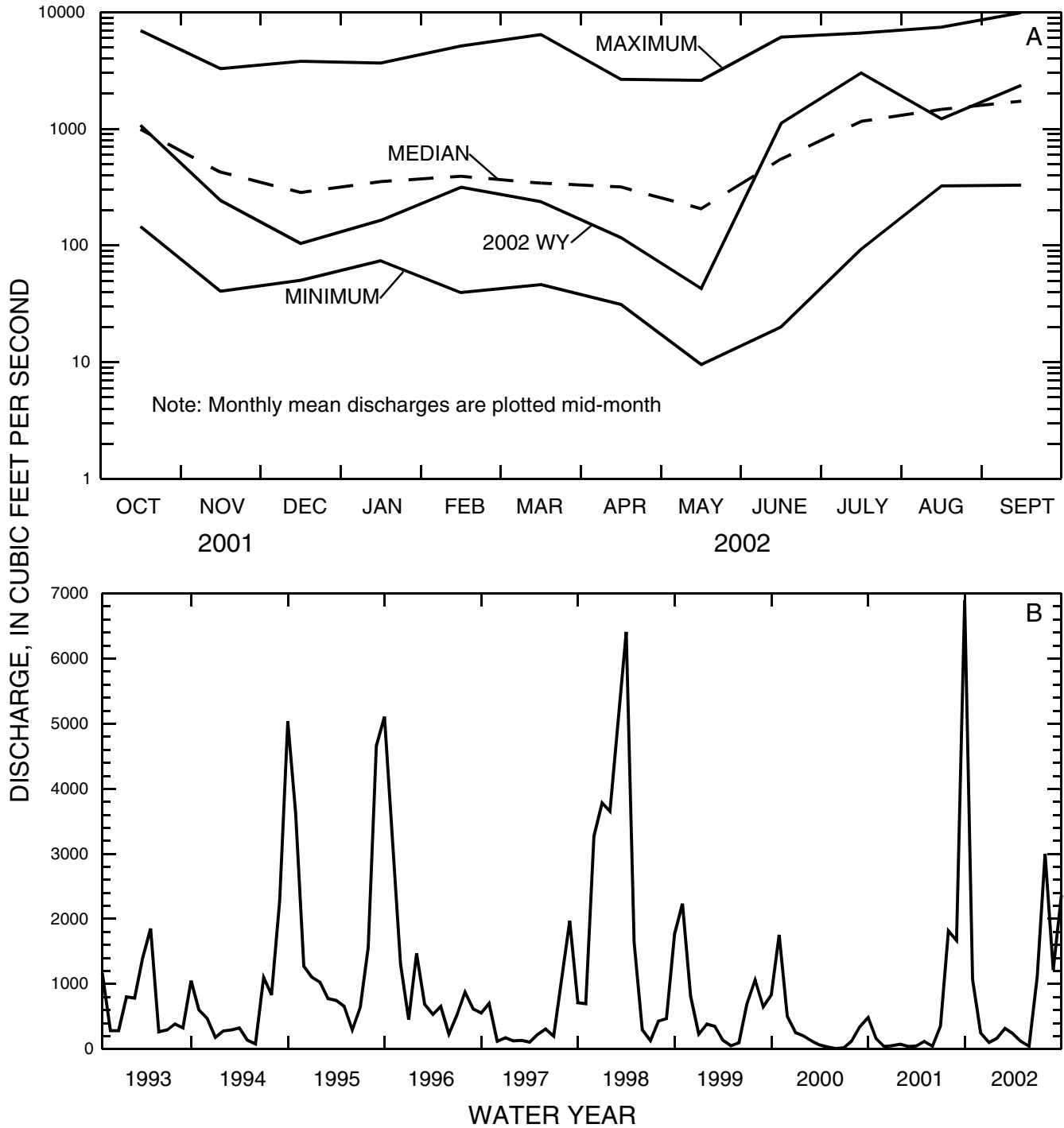


Figure 6.--Peace River at Arcadia (A) 2002 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1993-2002.

MYAKKA RIVER NEAR SARASOTA, FLORIDA
 SITE 02298830

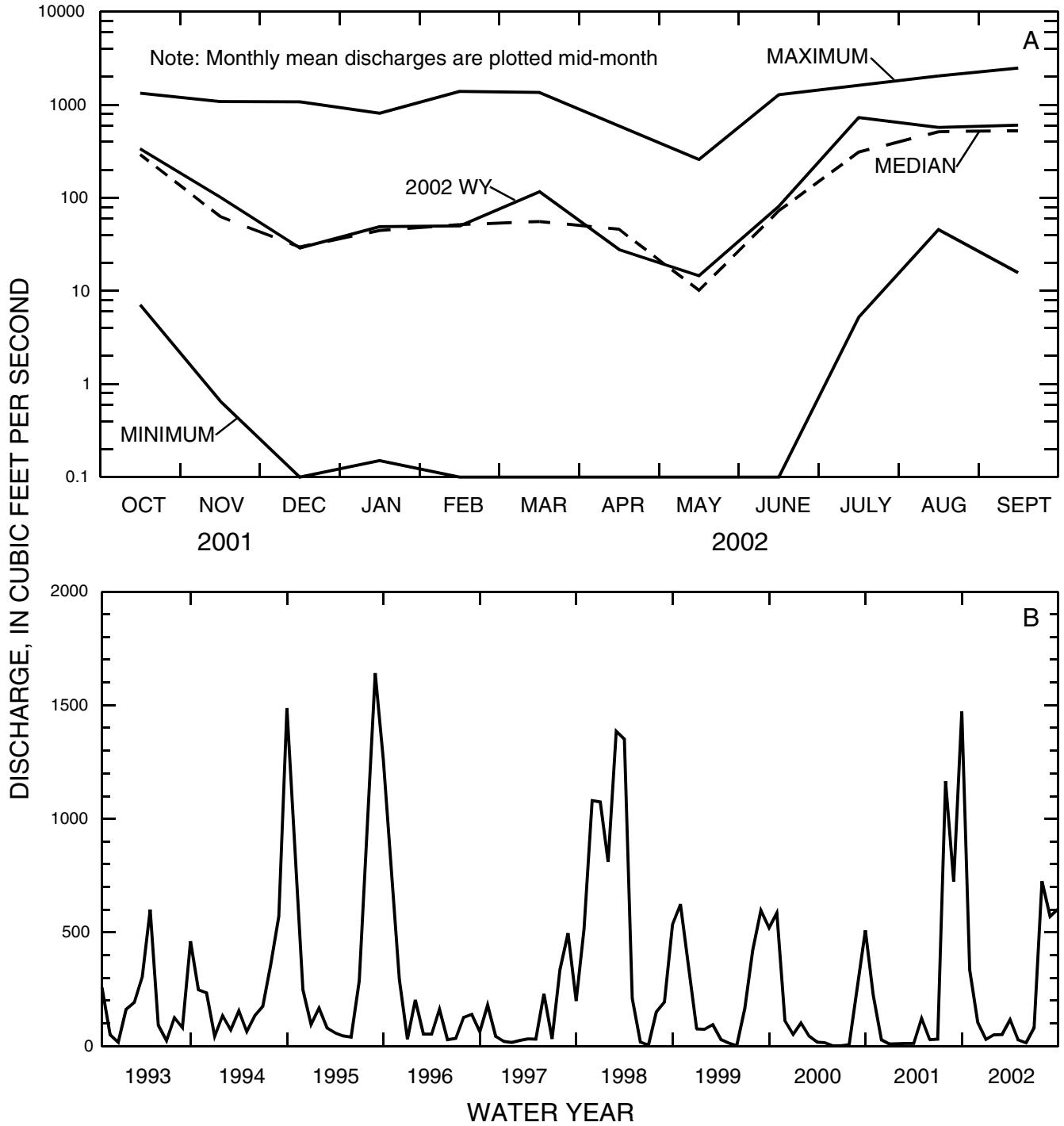


Figure 7.--Myakka River near Sarasota (A) 2002 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1993-2002.

MOON LAKE NEAR NEW PORT RICHEY, FLORIDA
SITE 02310290

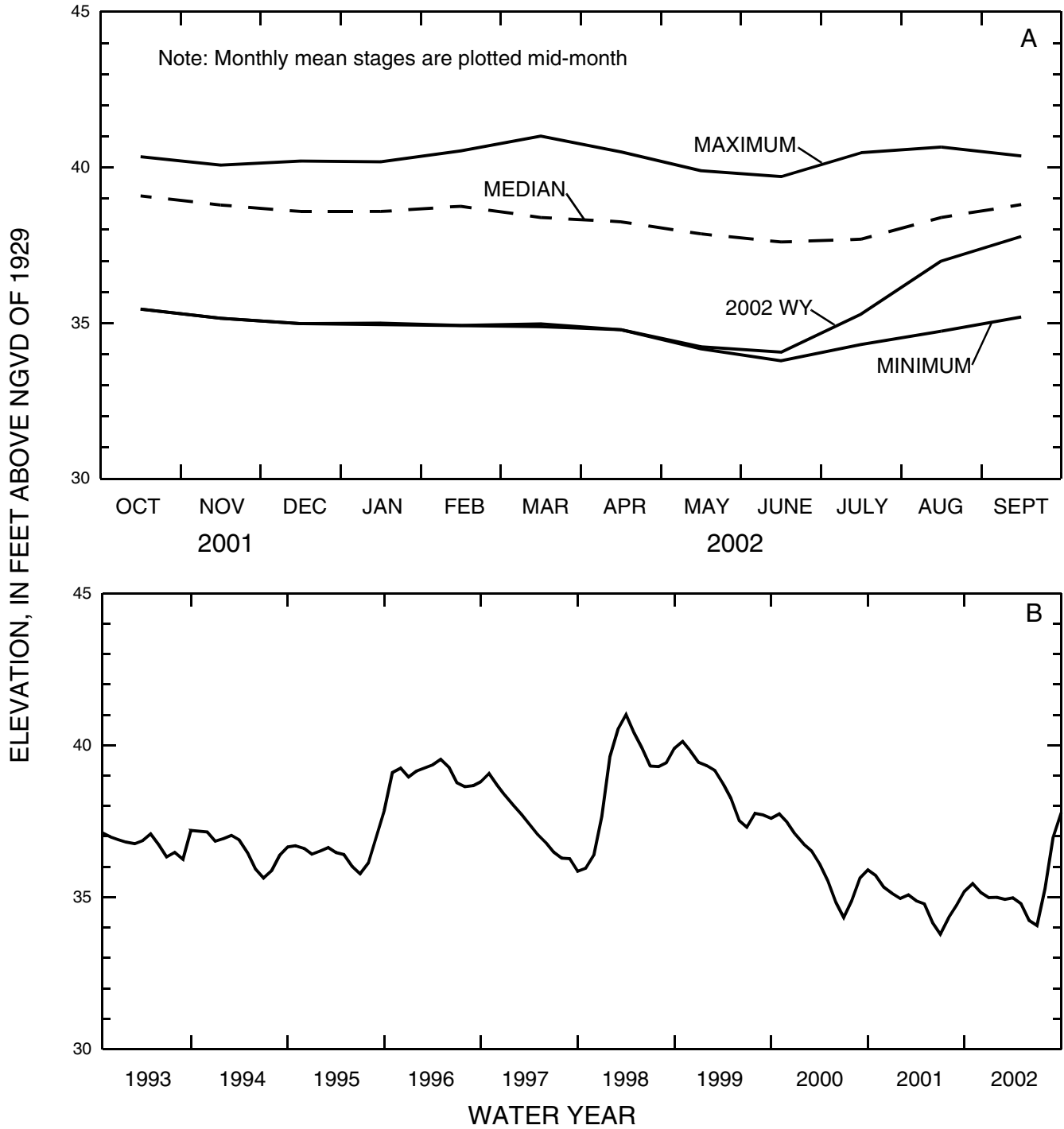


Figure 8.--Moon Lake near New Port Richey (A) 2002 monthly mean stage compared to the maximum, median, and minimum monthly mean stage for the period of record, and (B) the monthly mean stage for the period 1993-2002.

LAKE PARKER AT LAKELAND, FLORIDA
 SITE 02294259

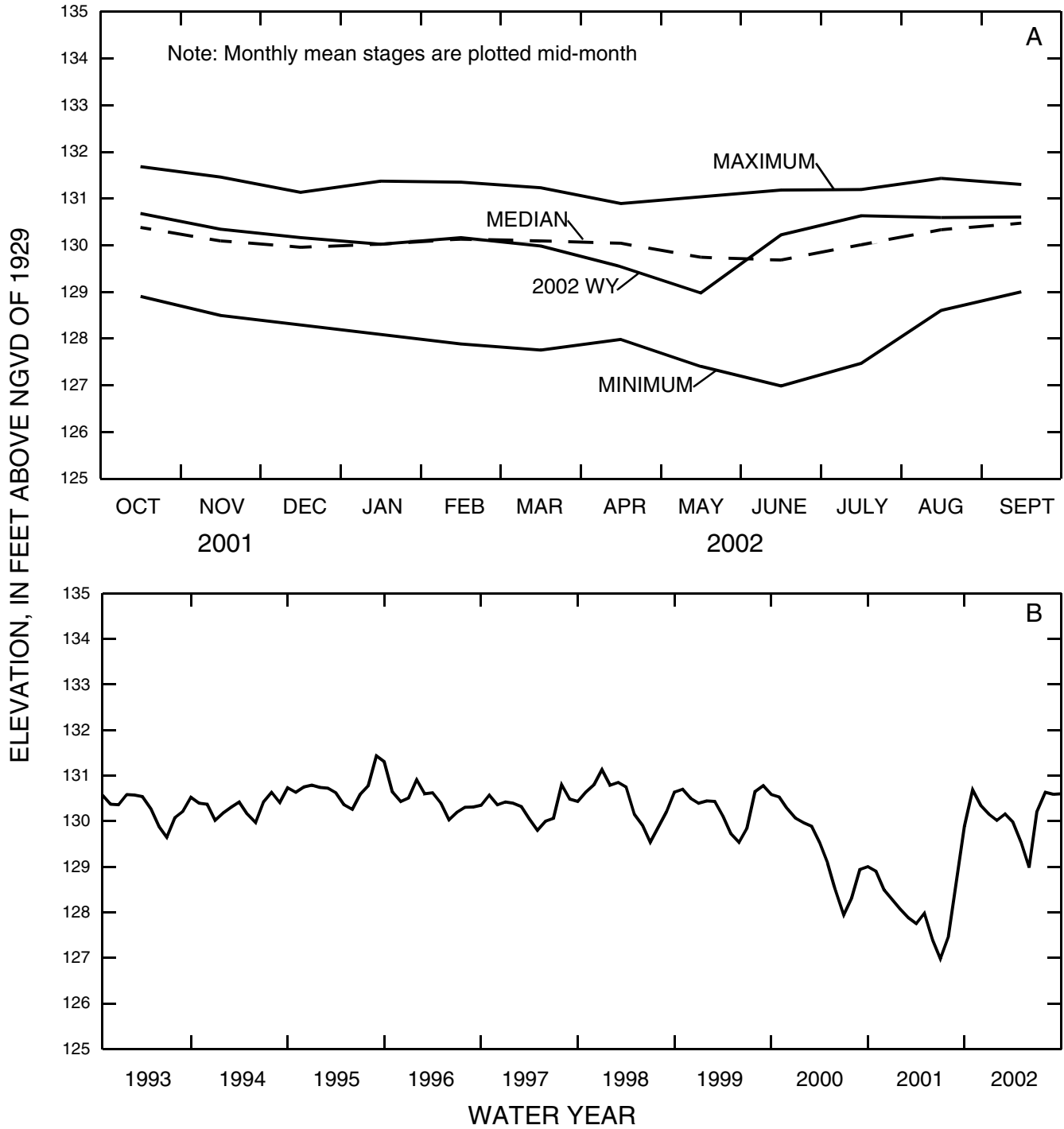


Figure 9.--Lake Parker at Lakeland (A) 2002 monthly mean stage compared to the maximum, median, and minimum monthly mean stage for the period of record, and (B) the monthly mean stage for the period 1993-2002.

CROOKED LAKE NEAR BABSON PARK, FLORIDA
SITE 02269200

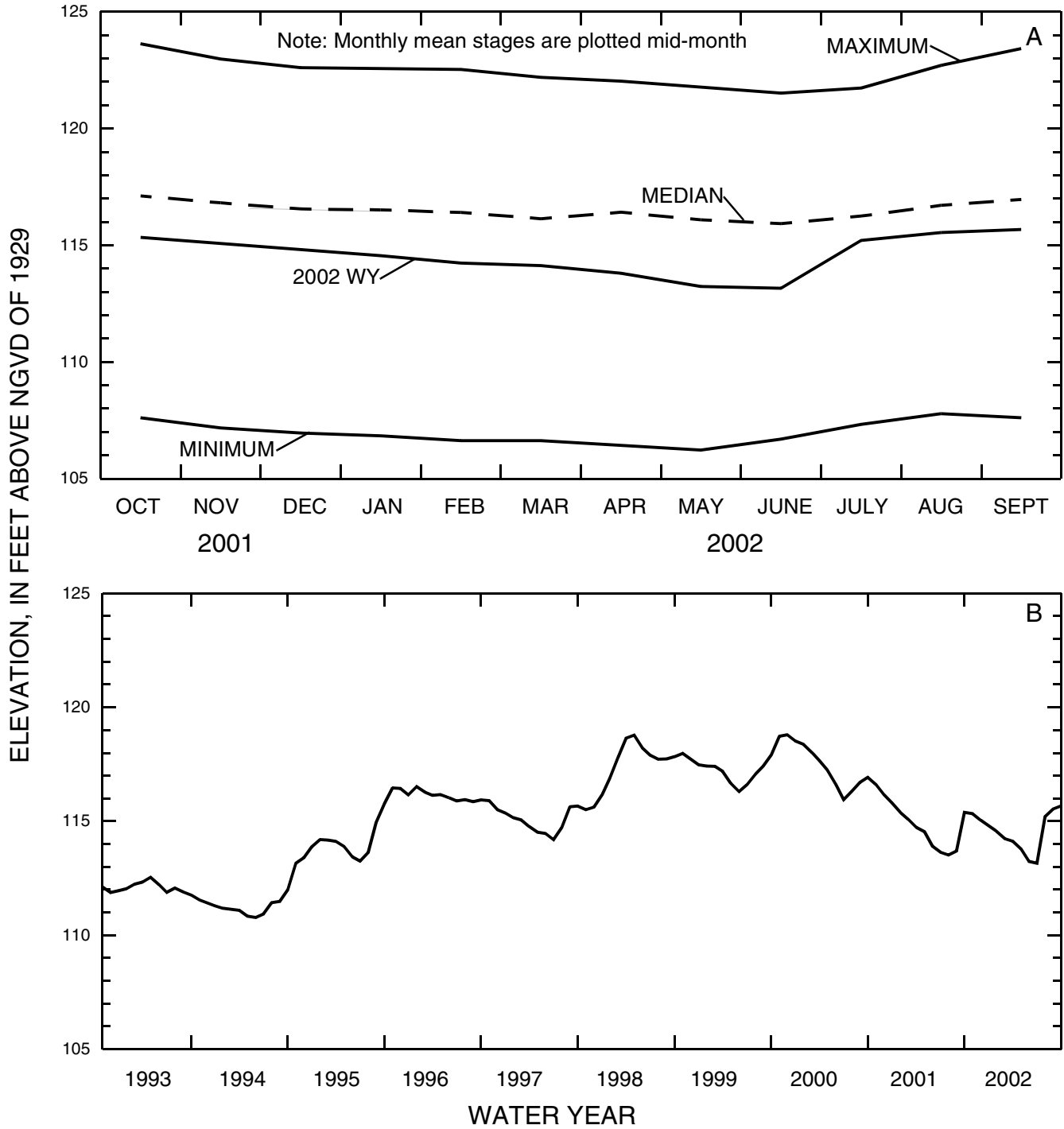


Figure 10.--Crooked Lake near Babson Park (A) 2002 monthly mean stage compared to the maximum, median, and minimum monthly mean stage for the period of record, and (B) the monthly mean stage for the period 1993-2002.

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 streamflow representative of 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. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at <http://water.usgs.gov/hbn/>.

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

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as all data from the individual sites, can be found at <http://bqs.usgs.gov/acidrain/>.

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 59 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 can be found at <http://water.usgs.gov/nawqa/>

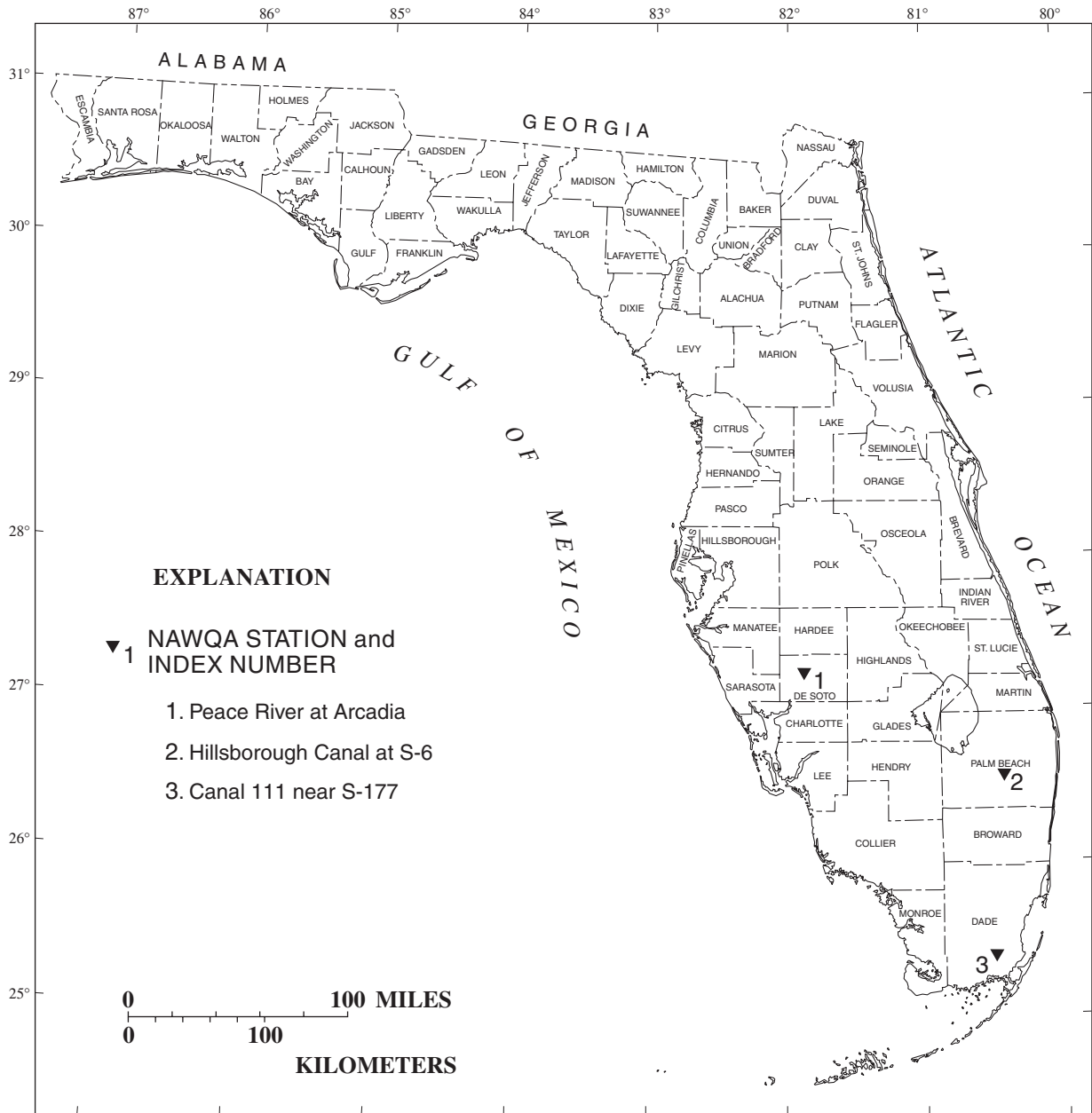


Figure 11.--NAWQA stations in the State of Florida.

EXPLANATION OF THE RECORDS

The surface-water records published in this report are for the 2002 water year that began October 1, 2001, and ended September 30, 2002. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs; water level and water quality data for estuaries; and water-quality data for surface water. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

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

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an 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- or nine-digit number for each station, such as 02335500, which appears just to the left of the station name, includes the two-digit Part number "02" plus the six- or seven-digit downstream-order number "335500." The Part number designates the major river basin; for example, Part "02" is the South Atlantic slope and Eastern Gulf of Mexico basins.

Latitude-Longitude System

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

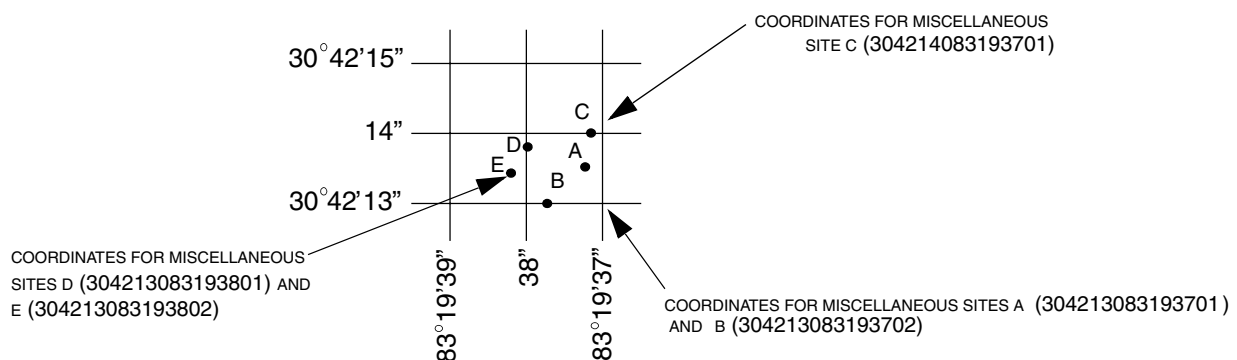


Figure 12.--System for numbering miscellaneous sites (latitude and longitude)

Records of Stage and Water Discharge

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

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

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

Data Collection and Computation

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

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

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

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

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

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

$$Q = AV,$$

where

Q = discharge

A = area of the cross section, and

V = mean velocity of the cross section.

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

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; drainage area; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following infor-

mation, as appropriate, is provided with each continuous record of discharge or lake content. The following comments clarify information presented under the various headings of the station description.

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

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

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time when the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

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

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see Definition of Terms), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will be flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") The remarks paragraph is used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

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

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

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

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

Data table of daily mean values

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

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the

maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS _-_, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS _-_", will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

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

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

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

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

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

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

HIGHEST DAILY MEAN.--The maximum daily mean discharge and date for the year or for the designated period.

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

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

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

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

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

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

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

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

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

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

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

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

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

Identifying Estimated Daily Discharge

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

Accuracy of the Records

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

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

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 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 collected at short intervals and recorded using an electronic data logger. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Arrangement of Records

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

Accuracy of the Records

For each record, one of four accuracy rating classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made, as described by Wagner and others (2000). Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating classifications for continuous water-quality records

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

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

On-site Measurements and Sample Collection

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

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

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

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

Water Temperature

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

waste-heat discharges.

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

Sediment

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

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

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

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

Dissolved Trace Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) 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 $\mu\text{g/L}$ 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.

Change 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 Program Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign, IL 61820-7495 (Telephone: 271-333-7873).

Laboratory Analyses

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

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

Data Presentation

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

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE

AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

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

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

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

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

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

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

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

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

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

SURFACE-WATER-DISCHARGE AND SURFACE-WATER-QUALITY RECORDS

Remark Codes

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

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Value is estimated.
&	Value was computed from affected unit values
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Value qualifier codes used in this report:

cl	Holding time exceeded by the laboratory
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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. Precision varies for different analytical methods used to determine the same constituent. The presence of trailing zeroes after the decimal in values printed in this report does not necessarily indicate that the method used for the deter-

mination is as precise as the level implied by the rightmost zero.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at:

<http://water.usgs.gov>

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

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Definitions of common terms such as algae, water level, and precipitation are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting inch/pound units to International System (SI) units on the inside of the back cover.

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

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also “Annual runoff”)

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

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. (See also “Biomass” and “Dry weight”)

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

Annual runoff is the total quantity of water that is discharged (“runs off”) from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. 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.)

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

Artificial substrate is a device that 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 collected. 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. (See also “Substrate”)

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

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas 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.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also “Peak flow”)

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bedload is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 foot) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also “Bedload,” “Dry weight,” “Sediment,” and “Suspended-sediment discharge”)

Bed material is the sediment mixture of which a stream-bed, lake, pond, reservoir, or estuary bottom is composed. (See also “Bedload” and “Sediment”)

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

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

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

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

Blue-green algae (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also “Phytoplankton”)

Bottom material (See “Bed material”)

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved solids content of the pore water and lithology and porosity of the rock.

Cells/volume refers to the number of cells of any organism that 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 volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

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

$$\text{sphere } \frac{4}{3} \pi r^3 \quad \text{cone } \frac{1}{3} \pi r^2 h \quad \text{cylinder } \pi r^2 h.$$

pi (π) is the ratio of the circumference to the diameter of a circle; $\pi = 3.14159\dots$

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

Cfs-day (See “Cubic foot per second-day”)

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

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

Clostridium perfringens (*C. perfringens*) is a spore-forming bacterium that is common in the feces of human and other warm-blooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also “Bacteria”)

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

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

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

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

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

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

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

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic

meters per second. The term “second-foot” sometimes is used synonymously with “cubic foot per second” but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft³/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, (ft³/s)/mi²] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also “Annual runoff”)

Daily mean suspended-sediment concentration is the time-weighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also “Sediment” and “Suspended-sediment concentration”)

Daily-record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also “Gage datum,” “Land-surface datum,” “National Geodetic Vertical Datum of 1929,” and “North American Vertical Datum of 1988”)

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. (See also “Phytoplankton”)

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

Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of “dissolved” constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It 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, the bicarbonate (generally a major dis-

solved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L CaCO₃) can be converted to carbonate concentration by multiplying by 0.60.

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

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

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

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

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

Dry mass refers to the mass of residue present after drying in an oven at 105°C, 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. (See also "Ash mass," "Biomass," and "Wet mass")

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

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

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

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive; the index usually decreases with pollution.

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

Estimated (E) concentration value is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

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

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are 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. (See also “Bacteria”)

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35°C plus or minus 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

Fire algae (*Pyrrophyta*) are free-swimming unicells characterized by a red pigment spot. (See also “Phytoplankton”)

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

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term “stage,” although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

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

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

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. (See also “Phytoplankton”)

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat are typically made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

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

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA web site:

<http://www.co-ops.nos.noaa.gov/tideglos.html>

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = \frac{\sum (n)(a)}{N},$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

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

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

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. [Note: In several previous NWQL documents (NWQL Technical Memorandum 98.07, 1998), the LRL was called the nondetection value or NDV—a term that is no longer used.]

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

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

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

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

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

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

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

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

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

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

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also “Daily mean suspended-sediment concentration” and “Suspended-sediment concentration”)

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also “Discharge”)

Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also “Datum”)

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

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

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

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given

matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

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

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

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

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

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

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

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

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

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

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. See NOAA web site: <http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88> (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

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

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

North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States first-order terrestrial leveling networks.

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

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

Organic mass or **volatile mass** of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also “Ash mass,” “Biomass,” and “Dry mass”)

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.

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

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

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

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

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

Classification	Size (mm)	Method of analysis
Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, 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.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

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

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

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

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

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

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

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

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

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

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

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

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photo-synthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated

by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

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

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

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

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable from bed (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. (See also "Bed material")

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

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

Return period (See “Recurrence interval”)

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged (“runs off”) from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also “Annual runoff”)

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as “fluvial sediment.” Sediment 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 affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also “Annual 7-day minimum” and “Recurrence interval”)

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

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. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105°C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

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

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

Stage (See “Gage height”)

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

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

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0 no gravel or larger substrate	3 26-50 percent
1 > 75 percent	4 5-25 percent
2 51-75 percent	5 < 5 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) 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 defined operationally as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the “total” amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of “suspended, recoverable” constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also “Suspended”)

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also “Sediment”)

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 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also “Sediment” and “Suspended sediment”)

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027. (See also “Sediment,” “Suspended sediment,” and “Suspended-sediment concentration”)

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as “annual suspended-sediment load” or “sand-

size suspended-sediment load,” and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also “Sediment”)

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as “suspended, total.” Determinations of “suspended, total” constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also “Suspended”)

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

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

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

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

Kingdom:	Animal
Phylum:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	<i>Hexagenia</i>
Species:	<i>Hexagenia limbata</i>

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term “temperature recorder” is used in the table descriptions 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 the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) 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 at least 95 percent of the constituent in the sample.)

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

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

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

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

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

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a 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 for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or **total load** is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and atten-

uated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to U.S. EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See “Water-table aquifer”)

Vertical datum (See “Datum”)

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

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

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

Water year in USGS 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, 2002, is called the “2002 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.

Wet mass is the mass of living matter plus contained water. (See also “Biomass” and “Dry mass”)

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also “Dry weight”)

WSP is used as an acronym for “Water-Supply Paper” in reference to previously published reports.

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

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The U.S.G.S. 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.G.S., 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 made in the form of a 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 mention the "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, chap. D1. 1975. 65 p.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

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, chap. D1. 1974. 116 p.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

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, chap. E1. 1971. 126 p.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

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, chap. F1. 1989. 97 p.

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, chap. A1. 1967. 30 p.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS–TWRI book 3, chap. A4. 1967. 44 p.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI book 3, chap. A5. 1967. 29 p.
- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.

- 3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 p.
- 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, chap. A9. 1989. 27 p.
- 3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 p.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 p.
- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.
- 3-A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 p.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.
- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 p.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.
- 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, chap. A18. 1989. 52 p.
- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 p.
- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 p.
- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

- 3-B1. *Aquifer-test design, observation, and data analysis*, by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 p.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 p.
- 3-B4. *Regression modeling of ground-water flow*, by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 p.
- 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, chap. B4. 1993. 8 p.
- 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, chap. B5. 1987. 15 p.
- 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, chap. B6. 1987. 28 p.
- 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, chap. B7. 1992. 190 p.
- 3-B8. *System and boundary conceptualization in ground-water flow simulation*, by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

- 3-C1. *Fluvial sediment concepts*, by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.
- 3-C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

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, chap. A1. 1968. 39 p.
- 4-A2. *Frequency curves*, by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.

Section B. Surface Water

- 4-B1. *Low-flow investigations*, by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.
- 4-B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.
- 4-B3. *Regional analyses of streamflow characteristics*, by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

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, chap. D1. 1970. 17 p.

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, chap. A1. 1989. 545 p.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 p.
- 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, chap. A3. 1987. 80 p.
- 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, chap. A4. 1989. 363 p.
- 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, chap. A5. 1977. 95 p.
- 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, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

- 5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

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, chap. A1. 1988. 586 p.
- 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, chap. A2. 1991. 68 p.
- 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, chap. A3. 1993. 136 p.
- 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, chap. A4. 1992. 108 p.

- 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, chap. A5, 1993. 243 p.
- 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: USGS–TWRI book 6, chap. A5, 1996. 125 p.

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, chap. C1. 1976. 116 p.
- 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, chap. C2. 1978. 90 p.
- 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, chap. C3. 1981. 110 p.

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, chap. A1. 1968. 23 p.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

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, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations

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

- 9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.
- 9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.
- 9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.
- 9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.
- 9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999. 149 p.
- 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, chap. A6. 1998. Variously paginated.
- 9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.
- 9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.
- 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, chap. A9. 1998. 60 p.

SELECTED REFERENCES

- American Public Health Association, and others 1965, Standard methods for the examination of water and waste-water, 12th ed.: Am. Public Health Assoc., New York, 769 p.
- California State Water Quality Control Board, 1963, Water quality criteria; Pub. 3-A, p. 226.
- Conover, C. S., and Leach, S. D., 1975, River basin and hydrologic unit map of Florida: Florida Bur. Geology Map Ser. 72.
- Ellis, M. M., Westfall, B. A., and Ellis, M. D., 1946, Determination of water quality, U.S. Fish and Wildlife Reserve Report 9.
- Georlitz, Donald R., and Brown, Eugene, 1972, Methods for Analysis of Organic Substances in Water: U. S. Geological Survey Techniques of Water Resources-Inv., Book 5, Chapter A3, 40 p.
- Heath, R. C., and Smith, P. C., 1954, Ground-water resources of Pinellas County, Florida: Florida Geological Survey Report of Investigations 12, 139 p.
- Kirkor, Teodor, 1951, Protecting Public Waters from Pollution in the U.S.S.R., Sewage Works Journal, v. 23, 938 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U. S. Geological Survey Water-Supply Paper 1541-A, 29 p.
- Maxcy, K. F., 1950, Report on the relation of nitrate concentrations in well waters to the occurrence of methemoglobinemia: National Research Council, Bull. Sanitary Eng. and Environment, App. D., 271 p.
- Paynter, O. E., 1960, The chronic toxicity of dodecylbenzene sodium sulfonate: U. S. Public Health Conference on Physiological Aspects of Water Quality Proc., Washington, D. C., Sept. 8-9, 1960, 175-177 p.
- Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary: Reinhold Pub. Corp., New York, 7th ed., 286 p.
- Slack, K. V., Averett, R. C., Grieson, P. E., and Lipscomb, R. G., 1973, Methods for Collection and Analysis of Aquatic Biological and Microbiological Samples: U.S. Geological Survey Techniques of Water Resources Inv., Book 5, Chapter A4, 165 p.
- Sutcliffe, H., Jr., 1975, Appraisal of the water resources of Charlotte County, Florida: Florida Bureau of Geology Report of Investigations 78, 53 p.
- Swenson, H. A. and Baldwin, H. L., 1965, A Primer on water quality: Washington, U.S. Government Printing Office, 27 p.
- U.S. Environmental Protection Agency, 1975, National Interim primary drinking water regulations: Federal Register, v. 40, no. 51, March 14, p. 11990-11998.
- U.S. Environmental Protection Agency, 1976, "Quality criteria for water," 256 p.
- U.S. Environmental Protection Agency, 1977, National secondary drinking water regulations: Federal Register, v. 42, no. 62, March 31, p. 17143-17146.
- U.S. Environmental Protection Agency, 1979, "National secondary drinking water regulations," Federal Register, v. 44, No. 140, July 19, p. 42201.
- U.S. Public Health Service, 1962, Drinking water standards: U.S. Dept. Health, Education and Welfare, Public Health Service: Pub. no. 956.
- Wagner, R. J., Matraw, H. C., Ritz, G. F., and Smith, B. A., 2000, Guidelines and Standard Procedures for Continuous Water-Quality Monitors: Site Selection, Field Operation, Calibration, Record Computation, and Reporting: U.S. Geological Survey Water-Resources Investigations Report 00-4252, 53 p.
- Wayman, C. H., Robertson, J. B., and Page, H. G., Foaming characteristics of synthetic-detergent solutions: U.S. Geological Survey, Prof. Paper 450D, art. 178, D198 p.
- Wetterhall, W. S., 1964, Geohydrologic reconnaissance of Pasco and southern Hernando Counties, Florida: Florida Bureau of Geology Report of Investigations 34, 28 p.

WATER RESOURCES DATA FOR FLORIDA, 2002
Volume 3A: Southwest Florida Surface Water

SELECTED REFERENCES--Continued

- Yobbi, Dann K., Knochenmus, Lari A., 1988, Effects of River Discharge and High-Tide Stage on Salinity Intrusions in the Weeki Wachee, Crystal, and Withlacoochee River Estuaries, Southwest Florida: U.S. Geological Survey Water-Resources Investigations Report 88-4116, 63 p.

STAGE, DISCHARGE, AND WATER QUALITY OF STREAMS

WATER RESOURCES DATA FOR FLORIDA, 2002
Volume 3A: Southwest Florida Surface Water

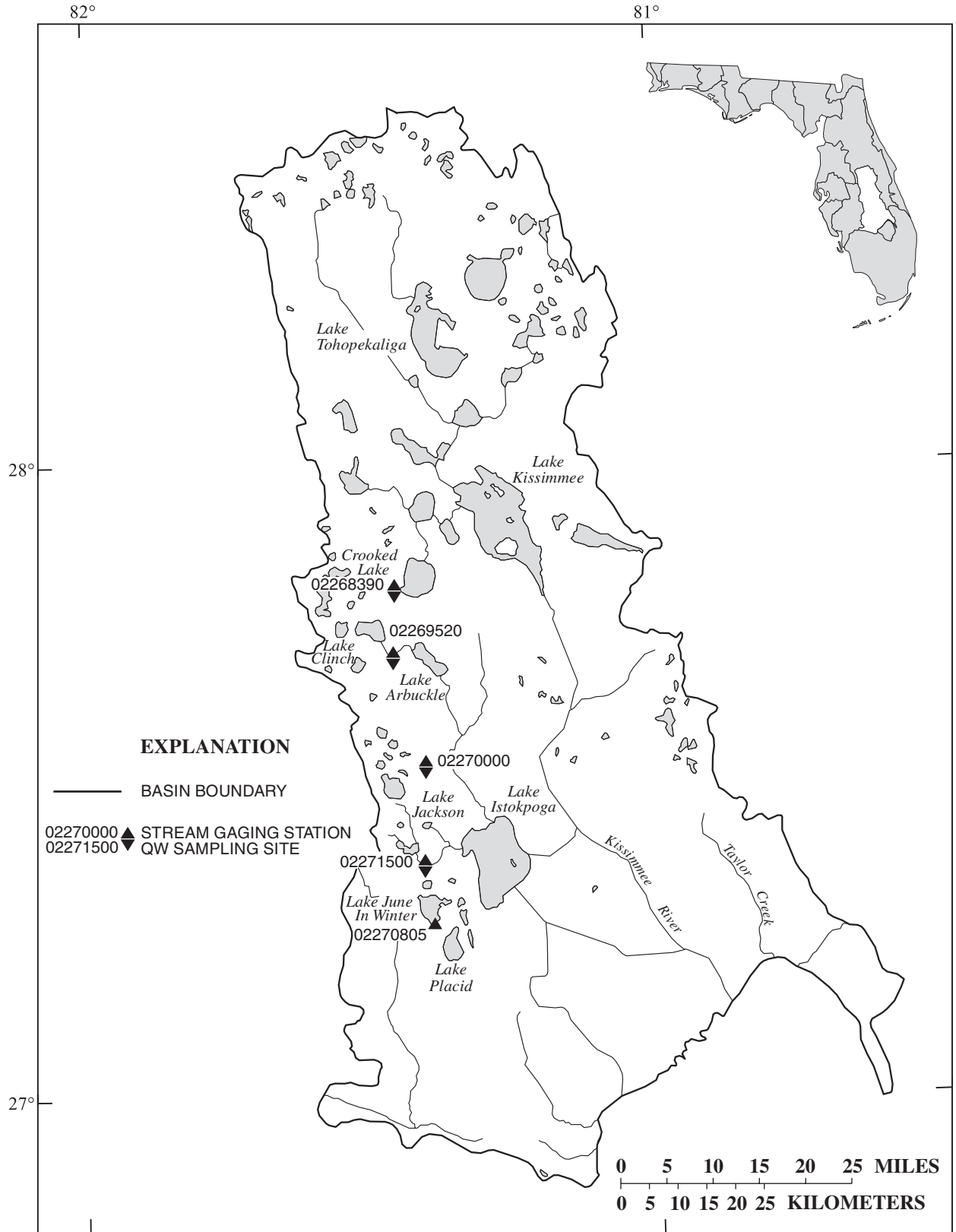


Figure 13.--Location of stream gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okeechobee from the north; and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02268390 TIGER CREEK NEAR BABSON PARK, FL

LOCATION.--Lat 27°48'40", long 81°26'38" (1927 North American datum), in NE¼ 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 fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	44	31	27	26	37	17	10	11	102	35	47
2	57	43	30	28	26	34	17	9.8	11	122	36	45
3	54	43	30	33	25	32	17	9.4	9.6	118	41	42
4	52	41	29	33	25	31	20	9.1	8.9	101	46	39
5	50	41	29	31	25	30	19	8.7	8.5	84	47	36
6	48	41	29	30	24	29	18	8.7	8.6	70	44	34
7	47	40	29	29	25	28	17	8.5	11	62	43	33
8	47	39	31	28	26	28	17	8.2	16	56	49	31
9	47	39	33	28	25	27	16	7.9	16	54	48	30
10	46	38	33	27	25	26	15	7.6	13	60	45	29
11	45	37	31	26	26	25	15	7.2	17	64	40	30
12	43	37	31	26	26	25	15	6.9	17	70	36	32
13	42	36	30	26	25	24	15	6.8	15	74	35	35
14	41	36	29	27	25	24	15	7.4	14	75	34	43
15	40	37	29	36	25	23	16	10	14	71	35	47
16	40	37	29	40	25	22	16	10	16	65	38	43
17	39	36	29	37	24	22	15	9.3	25	60	41	39
18	38	35	29	35	24	21	15	11	27	53	44	35
19	37	35	29	33	23	21	14	15	29	48	44	33
20	37	35	28	32	23	20	14	18	30	44	43	33
21	39	34	28	31	23	20	13	16	31	46	41	33
22	45	34	27	31	27	19	13	14	35	61	39	32
23	47	33	27	30	44	19	13	12	44	68	36	32
24	47	33	27	30	53	19	12	11	60	68	34	39
25	48	33	28	29	54	18	12	11	75	62	32	54
26	49	33	28	29	52	19	11	9.8	87	56	31	61
27	52	33	28	28	47	21	11	9.4	91	50	30	62
28	52	32	28	28	42	21	11	9.0	82	45	29	59
29	51	32	27	27	---	19	11	8.5	72	42	29	54
30	48	31	27	27	---	18	11	8.9	73	39	32	48
31	46	---	27	27	---	17	---	12	---	37	43	---
TOTAL	1433	1098	900	929	840	739	441	311.1	967.6	2027	1200	1210
MEAN	46.2	36.6	29.0	30.0	30.0	23.8	14.7	10.0	32.3	65.4	38.7	40.3
MAX	59	44	33	40	54	37	20	18	91	122	49	62
MIN	37	31	27	26	23	17	11	6.8	8.5	37	29	29
CFSM	0.88	0.69	0.55	0.57	0.57	0.45	0.28	0.19	0.61	1.24	0.73	0.76
IN.	1.01	0.77	0.63	0.65	0.59	0.52	0.31	0.22	0.68	1.43	0.85	0.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	48.0	35.1	34.7	37.1	35.9	33.6	27.0	18.1	31.1	41.8	49.3	54.8
MAX	84.3	47.0	64.3	61.1	81.9	84.5	48.8	29.3	54.3	65.4	85.2	83.8
(WY)	2000	1995	1995	1998	1998	1998	1998	1998	1996	2002	1995	2001
MIN	20.4	15.8	15.5	16.0	15.0	15.7	14.7	8.05	12.9	20.6	23.5	27.1
(WY)	1994	2001	2001	2001	2001	2001	2002	2001	2001	2001	1993	1997

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1992 - 2002

ANNUAL TOTAL	9997.1	12095.7		
ANNUAL MEAN	27.4	33.1	37.2	
HIGHEST ANNUAL MEAN			49.7	1998
LOWEST ANNUAL MEAN			22.9	2001
HIGHEST DAILY MEAN	164	Sep 10	185	Mar 22 1998
LOWEST DAILY MEAN	5.3	May 28	5.3	May 28 2001
ANNUAL SEVEN-DAY MINIMUM	5.9	May 25	5.9	May 25 2001
MAXIMUM PEAK FLOW			124	Jul 2 1998
MAXIMUM PEAK STAGE			45.44	Jul 2 1998
ANNUAL RUNOFF (CFSM)	0.52	0.63	0.70	
ANNUAL RUNOFF (INCHES)	7.04	8.52	9.58	
10 PERCENT EXCEEDS	48	54	66	
50 PERCENT EXCEEDS	18	31	32	
90 PERCENT EXCEEDS	10	11	15	

SOUTHERN FLORIDA

KISSIMEE 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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV													
26...	0825	43.72	33	7.6	5.8	184	20.4	E.30	.03	1.30	<.01	.020	E.02
JAN													
28...	0941	43.62	28	7.3	6.2	189	21.3	.60	<.01	1.40	<.01	.020	<.02
MAR													
26...	0853	43.31	18	8.1	6.4	183	21.0	.20	.03	1.60	<.01	.010	<.02
MAY													
13...	0924	42.78	7.0	7.2	6.0	141	23.7	<.20	<.01	.610	<.01	<.010	<.02
JUL													
16...	0853	44.73	66	5.2	5.8	144	26.0	1.3	.02	.230	.01	.020	.03
SEP													
05...	0910	44.06	36	6.5	6.4	170	25.7	.70	<.01	.850	<.01	<.010	.02

Remark codes used in this report:

< -- Less than

E -- Estimated value

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02269520 LIVINGSTON CREEK NEAR FROSTPROOF, FL

LOCATION.--Lat 27°42'30", long 81°26'48" (1927 North American datum), in SW¹/₄ 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	165	81	51	43	49	22	12	5.2	105	87	104
2	240	160	79	51	42	48	22	12	4.9	111	94	96
3	227	157	78	55	41	47	23	12	4.7	106	116	98
4	217	153	77	53	41	47	25	11	4.6	102	109	97
5	209	150	75	50	40	45	23	10	4.5	93	119	94
6	203	148	73	49	38	43	22	9.9	4.7	87	106	91
7	197	141	72	49	41	42	21	9.5	4.7	83	96	90
8	192	137	76	48	50	42	20	8.9	6.2	81	100	88
9	186	133	75	46	44	41	19	8.6	5.6	88	93	84
10	177	130	74	45	43	40	19	8.3	6.7	102	87	82
11	172	127	72	45	43	40	18	8.0	8.9	110	82	80
12	167	124	71	44	41	39	18	7.6	8.9	117	82	82
13	162	121	70	44	40	38	18	7.3	8.2	123	95	80
14	157	119	68	45	40	37	18	6.6	8.1	120	85	82
15	153	118	67	61	39	36	19	6.2	9.1	110	97	78
16	148	116	66	60	38	35	20	5.9	12	101	87	75
17	143	111	65	57	37	34	21	6.0	37	95	84	72
18	137	108	64	55	36	33	19	6.8	36	91	126	69
19	132	107	63	53	35	32	18	9.5	33	89	110	68
20	133	105	62	52	34	32	17	9.6	32	85	111	82
21	140	103	59	51	34	31	17	8.1	66	90	100	78
22	167	100	58	50	43	30	16	7.2	109	117	119	75
23	167	97	56	50	70	29	16	6.7	94	115	107	73
24	166	95	56	49	79	28	16	6.3	92	99	93	73
25	170	93	55	48	67	27	15	6.0	153	90	84	90
26	261	91	56	48	60	27	15	5.8	111	85	80	92
27	249	89	54	47	56	26	15	5.7	89	101	79	85
28	210	87	52	46	53	25	14	5.4	109	108	76	81
29	190	85	51	46	---	24	13	5.3	104	101	72	79
30	178	83	51	45	---	24	13	5.2	91	98	76	80
31	170	---	51	44	---	23	---	5.3	---	92	100	---
TOTAL	5679	3553	2027	1537	1268	1094	552	242.7	1263.0	3095	2952	2498
MEAN	183	118	65.4	49.6	45.3	35.3	18.4	7.83	42.1	99.8	95.2	83.3
MAX	261	165	81	61	79	49	25	12	153	123	126	104
MIN	132	83	51	44	34	23	13	5.2	4.5	81	72	68
AC-FT	11260	7050	4020	3050	2520	2170	1090	481	2510	6140	5860	4950
CFSM	1.53	0.99	0.54	0.41	0.38	0.29	0.15	0.07	0.35	0.83	0.79	0.69
IN.	1.76	1.10	0.63	0.48	0.39	0.34	0.17	0.08	0.39	0.96	0.92	0.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	89.1	62.4	52.1	53.4	53.0	52.2	36.9	20.6	28.2	47.4	69.2	92.2
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	13.0	11.6	10.0	10.2	11.1	10.4	6.57	5.63	21.3	18.4	26.3
(WY)	1998	2001	2001	2001	2001	2001	1999	2001	2000	2000	1993	1993

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	21317.6		25760.7			
ANNUAL MEAN	58.4		70.6		54.8	
HIGHEST ANNUAL MEAN					125 1995	
LOWEST ANNUAL MEAN					27.6 1997	
HIGHEST DAILY MEAN	369	Sep 23	261	Oct 26	e700	Mar 21 1998
LOWEST DAILY MEAN	6.0	May 18	4.5	Jun 5	4.5	Jun 5 2002
ANNUAL SEVEN-DAY MINIMUM	6.0	May 17	4.8	Jun 1	4.8	Jun 1 2002
MAXIMUM PEAK FLOW			283	Oct 26	Unknown	Unknown
MAXIMUM PEAK STAGE			46.09	Oct 1	Unknown	Unknown
ANNUAL RUNOFF (AC-FT)	42280		51100		39670	
ANNUAL RUNOFF (CFSM)	0.49		0.59		0.46	
ANNUAL RUNOFF (INCHES)	6.61		7.99		6.20	
10 PERCENT EXCEEDS	174		138		127	
50 PERCENT EXCEEDS	24		65		34	
90 PERCENT EXCEEDS	7.5		9.0		11	

SOUTHERN FLORIDA

KISSIMEE 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 2001 TO SEPTEMBER 2002

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)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AM- MONIA + ORGANIC 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													
26...	0908	43.07	91	204	5.8	20.4	5.0	.01	.420	.13	E1.7	E.11	.030
JAN													
28...	1026	42.11	46	232	6.4	21.6	6.2	<.01	.650	.13	2.0	.06	.040
MAR													
26...	0945	41.61	28	248	6.0	21.7	5.4	.02	.680	.37	1.8	.06	.010
MAY													
13...	1013	40.86	7.2	259	6.2	25.2	6.4	<.01	.750	.16	1.4	.05	.020
JUL													
16...	0940	43.19	101	189	6.0	27.7	4.2	.02	.170	.04	1.5	.14	.120
SEP													
05...	0945	43.07	94	190	6.0	27.7	4.4	.01	.220	.02	1.1	.14	.130

Remark codes used in this report:

< -- Less than

E -- Estimated value

KISSIMMEE RIVER BASIN

02270000 CARTER CREEK NEAR SEBRING, FL

LOCATION.--Lat 27°31'55", long 81°23'16" (1927 North American datum), 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 fair. Regulation by Bonnett Lake control above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	22	15	13	11	16	6.6	4.8	3.7	36	13	44
2	35	21	14	14	11	16	6.3	4.6	3.4	36	14	31
3	32	21	14	16	11	15	8.5	3.9	3.1	36	15	26
4	29	21	12	15	10	14	10	4.0	2.9	28	15	25
5	28	22	13	14	9.8	13	8.9	3.9	2.8	22	14	24
6	26	22	15	14	9.6	13	7.9	3.8	2.7	25	14	22
7	26	21	14	14	9.9	12	7.3	3.7	6.8	37	15	20
8	30	20	17	14	11	13	6.8	3.6	12	24	16	18
9	28	21	26	13	11	12	6.5	3.4	8.1	23	14	17
10	26	22	21	13	15	12	6.3	3.3	6.0	31	13	16
11	25	21	19	13	20	12	6.2	3.2	5.5	49	12	16
12	24	20	18	12	15	11	7.1	3.0	5.3	56	12	17
13	23	20	17	12	14	11	7.5	3.0	5.0	57	11	18
14	22	21	16	13	13	11	7.0	2.8	5.2	40	11	22
15	21	20	16	28	13	10	8.3	2.7	5.1	31	12	19
16	21	20	16	23	12	10	8.1	2.7	5.1	25	12	17
17	20	19	15	20	12	9.7	8.0	2.8	7.6	22	12	16
18	20	19	15	18	11	9.2	7.6	3.4	13	20	12	15
19	19	19	14	16	11	8.6	7.1	4.9	12	18	11	14
20	19	18	14	16	10	8.6	6.7	4.8	11	17	10	15
21	21	18	13	16	10	8.5	6.4	4.3	26	17	10	15
22	27	18	13	15	16	8.2	6.2	3.9	41	22	9.9	14
23	29	17	13	14	36	7.8	6.0	3.6	34	21	9.6	13
24	30	17	13	14	34	7.6	5.9	3.4	30	18	9.2	17
25	29	17	13	13	24	7.4	5.8	3.2	45	17	8.8	37
26	37	17	13	13	21	7.7	5.7	3.0	47	16	10	38
27	35	17	13	12	19	7.9	5.5	2.9	40	15	10	30
28	28	16	12	12	17	7.4	5.3	2.8	28	14	22	24
29	25	15	12	12	---	7.2	5.2	3.2	24	13	55	22
30	23	15	12	12	---	7.0	5.1	4.1	22	13	40	22
31	22	---	12	11	---	6.7	---	4.7	---	13	86	---
TOTAL	821	577	460	455	417.3	320.5	205.8	111.4	463.3	812	528.5	644
MEAN	26.5	19.2	14.8	14.7	14.9	10.3	6.86	3.59	15.4	26.2	17.0	21.5
MAX	41	22	26	28	36	16	10	4.9	47	57	86	44
MIN	19	15	12	11	9.6	6.7	5.1	2.7	2.7	13	8.8	13
AC-FT	1630	1140	912	902	828	636	408	221	919	1610	1050	1280
CFSM	0.68	0.50	0.38	0.38	0.38	0.27	0.18	0.09	0.40	0.68	0.44	0.55
IN.	0.79	0.55	0.44	0.44	0.40	0.31	0.20	0.11	0.44	0.78	0.51	0.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
1955	36.9	130	9.75	1960	24.9	78.7	5.80	1960	19.9	54.9	5.75	2001
1956	20.8	56.0	5.35	1958	21.6	70.7	3.45	1998	21.8	84.0	3.23	2001
1957	18.2	83.5	4.25	1998	13.3	36.6	3.35	1957	18.2	83.5	4.25	1994
1958	21.7	54.2	6.49	1959	13.3	36.6	3.35	1959	13.3	36.6	3.35	1994
1959	30.1	103	9.73	1959	30.1	103	9.73	1959	30.1	103	9.73	1956
1960	34.1	102	9.46	1960	34.1	102	9.46	1960	34.1	102	9.46	1993
1961	42.5	146	12.5	1960	42.5	146	12.5	1960	42.5	146	12.5	1996
1962	1962	2001	2001	2001	1962	2001	2001	2001	1962	2001	2001	1997

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1955 - 2002

ANNUAL TOTAL	6032.6	5815.8	
ANNUAL MEAN	16.5	15.9	25.6
HIGHEST ANNUAL MEAN			65.6
LOWEST ANNUAL MEAN			11.1
HIGHEST DAILY MEAN	109	Sep 23	352
LOWEST DAILY MEAN	1.6	Mar 28	1.6
ANNUAL SEVEN-DAY MINIMUM	1.8	Mar 23	1.8
MAXIMUM PEAK FLOW			552
MAXIMUM PEAK STAGE			11.05
ANNUAL RUNOFF (AC-FT)	11970	11540	18570
ANNUAL RUNOFF (CFSM)	0.43	0.41	0.66
ANNUAL RUNOFF (INCHES)	5.78	5.58	8.98
10 PERCENT EXCEEDS	39	28	52
50 PERCENT EXCEEDS	12	14	18
90 PERCENT EXCEEDS	2.4	4.9	6.7

SOUTHERN FLORIDA

KISSIMEE 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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV 26...	1033	5.68	17	8.1	5.5	181	20.5	E.60	.02	.570	<.01	.020	E.03
JAN 28...	1200	5.42	12	7.9	6.2	174	21.8	.80	<.01	.460	<.01	.020	.02
MAR 26...	1135	5.05	7.4	8.3	5.8	180	22.5	.70	.02	.310	<.01	<.010	<.02
MAY 13...	1136	4.68	3.1	7.9	5.8	146	23.8	.40	<.01	.280	<.01	.010	<.02
JUL 16...	1116	6.13	26	6.0	5.8	141	26.6	.90	.04	.080	<.01	.010	.03
SEP 05...	1103	6.05	24	6.2	6.4	133	26.4	1.0	.02	.120	.01	.010	.03

Remark codes used in this report:

< -- Less than
E -- Estimated value

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02270805 PLACID-JUNE CANAL OUTFALL NEAR LAKE PLACID, FL

LOCATION.--Lat 27°16'03", long 81°23'13" (1927 North American datum), in SE¹/₄ sec.11, T.37 S., R.29 E., Highlands County, Hydrologic Unit 03090101, on left bank of canal, 1.25 mi from Lake Placid Outfall, and 4.0 mi southwest of Lake Placid.
 DRAINAGE AREA.--Undetermined.
 PERIOD OF RECORD.--October 2001 to September 2002 (discontinued).
 GAGE.--Water-stage recorder. Datum of gage is 44.86 ft below National Geodetic Vertical Datum of 1929.
 REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.1	2.5	2.8	3.8	2.7	1.4	2.9	2.3	38	12	50
2	13	7.8	2.5	3.4	4.0	2.4	1.4	2.9	2.2	38	9.1	41
3	12	7.0	2.4	3.5	4.1	2.2	1.7	2.8	2.2	35	7.9	38
4	10	7.1	2.4	3.1	4.2	2.0	1.7	2.8	2.2	31	7.5	53
5	9.6	8.9	2.3	2.9	4.3	1.6	1.8	2.6	2.1	27	7.3	48
6	9.1	9.1	2.4	3.0	4.5	1.3	1.8	2.9	2.2	23	6.8	42
7	9.5	7.8	3.9	3.3	5.0	1.2	1.8	2.8	2.4	20	9.9	40
8	14	6.8	4.0	3.3	5.1	1.1	1.9	2.8	3.5	18	26	37
9	15	6.2	4.0	3.4	5.1	1.00	2.0	2.9	3.2	17	27	34
10	13	5.9	3.7	3.4	8.1	0.86	2.0	2.9	2.9	20	22	31
11	11	5.6	3.4	3.1	14	0.76	2.1	2.8	2.8	20	18	30
12	9.0	5.5	3.3	3.0	14	0.70	2.2	2.8	2.7	19	19	31
13	7.9	5.4	3.2	2.9	12	0.65	2.3	2.8	3.3	18	50	31
14	7.5	5.6	3.1	3.0	10	0.62	2.9	2.9	3.3	16	47	37
15	6.3	5.6	3.0	4.4	8.3	0.59	2.8	2.9	5.2	15	37	35
16	6.0	4.6	2.9	5.3	6.7	0.58	2.6	3.1	5.9	13	25	33
17	6.3	4.1	2.9	4.9	4.8	0.54	2.8	3.6	6.5	10	17	25
18	6.2	4.1	3.0	4.5	3.1	0.57	2.9	3.5	7.4	9.6	12	17
19	5.8	3.9	2.8	4.3	2.3	0.62	2.9	7.4	7.4	9.2	7.7	14
20	5.4	3.7	2.8	3.8	1.8	0.68	3.0	6.1	12	6.8	9.0	13
21	6.2	3.4	2.8	3.8	1.4	0.73	2.8	5.2	23	7.8	40	13
22	9.4	3.1	2.8	3.8	1.7	0.78	2.6	4.1	51	23	51	12
23	10	2.9	2.7	3.5	4.2	0.83	2.6	3.6	47	25	41	9.8
24	9.3	2.9	2.6	3.4	8.2	0.86	2.6	3.3	50	19	29	16
25	10	2.7	2.6	3.4	8.0	0.95	2.6	3.1	53	15	20	49
26	20	2.6	2.5	3.4	7.0	1.0	2.8	2.9	53	11	15	53
27	18	2.5	2.4	3.4	5.2	1.1	2.9	2.7	45	8.5	12	47
28	14	2.5	2.3	3.5	3.6	1.2	2.9	2.5	39	6.9	15	39
29	12	2.6	2.3	3.6	---	1.2	2.9	2.3	35	6.3	29	36
30	11	2.6	2.4	3.7	---	1.3	2.9	3.1	31	13	41	34
31	9.5	---	2.6	3.7	---	1.3	---	2.6	---	15	52	---
MEAN	10.4	5.02	2.85	3.56	5.88	1.09	2.39	3.28	17.0	17.9	23.3	33.0
MAX	20	9.1	4.0	5.3	14	2.7	3.0	7.4	53	38	52	53
MIN	5.4	2.5	2.3	2.8	1.4	0.54	1.4	2.3	2.1	6.3	6.8	9.8

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

	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MEAN	10.4	5.02	2.85	3.56	5.87	1.09	2.39	3.28	17.0	17.9	23.3	33.0
MAX	10.4	5.02	2.85	3.56	5.87	1.09	2.39	3.28	17.0	17.9	23.3	33.0
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	10.4	5.02	2.85	3.56	5.87	1.09	2.39	3.28	17.0	17.9	23.3	33.0
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2002 WATER YEAR

ANNUAL MEAN	10.5
HIGHEST DAILY MEAN	53 Jun 25
LOWEST DAILY MEAN	0.54 Mar 17
ANNUAL SEVEN-DAY MINIMUM	0.60 Mar 13
10 PERCENT EXCEEDS	33
50 PERCENT EXCEEDS	4.1
90 PERCENT EXCEEDS	1.8

SOUTHERN FLORIDA

KISSIMEE 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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 26...	1149	3.60	44	--	5.1	4.9	148	22.5	--	--	--	--	--
JAN 28...	1300	3.11	32	100	5.8	5.4	157	23.3	11.0	5.00	3.70	7.3	15.0
MAR 26...	1225	2.26	12	40	5.7	5.8	171	25.2	12.0	5.50	3.30	7.1	15.0
MAY 13...	1250	1.70	3.2	--	4.9	6.1	186	28.5	--	--	--	--	--
JUL 16...	1210	6.32	448	200	4.2	5.7	122	29.9	8.30	3.30	3.30	6.4	14.0
SEP 05...	1203	6.84	562	200	4.5	6.1	111	29.2	6.90	3.20	3.30	6.5	13.0

Date	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV 26...	--	--	--	--	E.90	.14	.510	<.01	.030	E.06	--
JAN 28...	<.1	4.10	27.0	118	1.1	.09	.420	<.01	.020	.02	250
MAR 26...	<.1	5.50	30.0	130	.70	.11	.780	<.01	.010	.02	360
MAY 13...	--	--	--	--	.80	.13	1.40	<.01	.020	.04	--
JUL 16...	<.1	2.70	19.0	106	1.1	.05	.070	.01	.040	.04	190
SEP 05...	<.1	2.10	16.0	93	.90	.02	.020	<.01	.020	.04	150

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

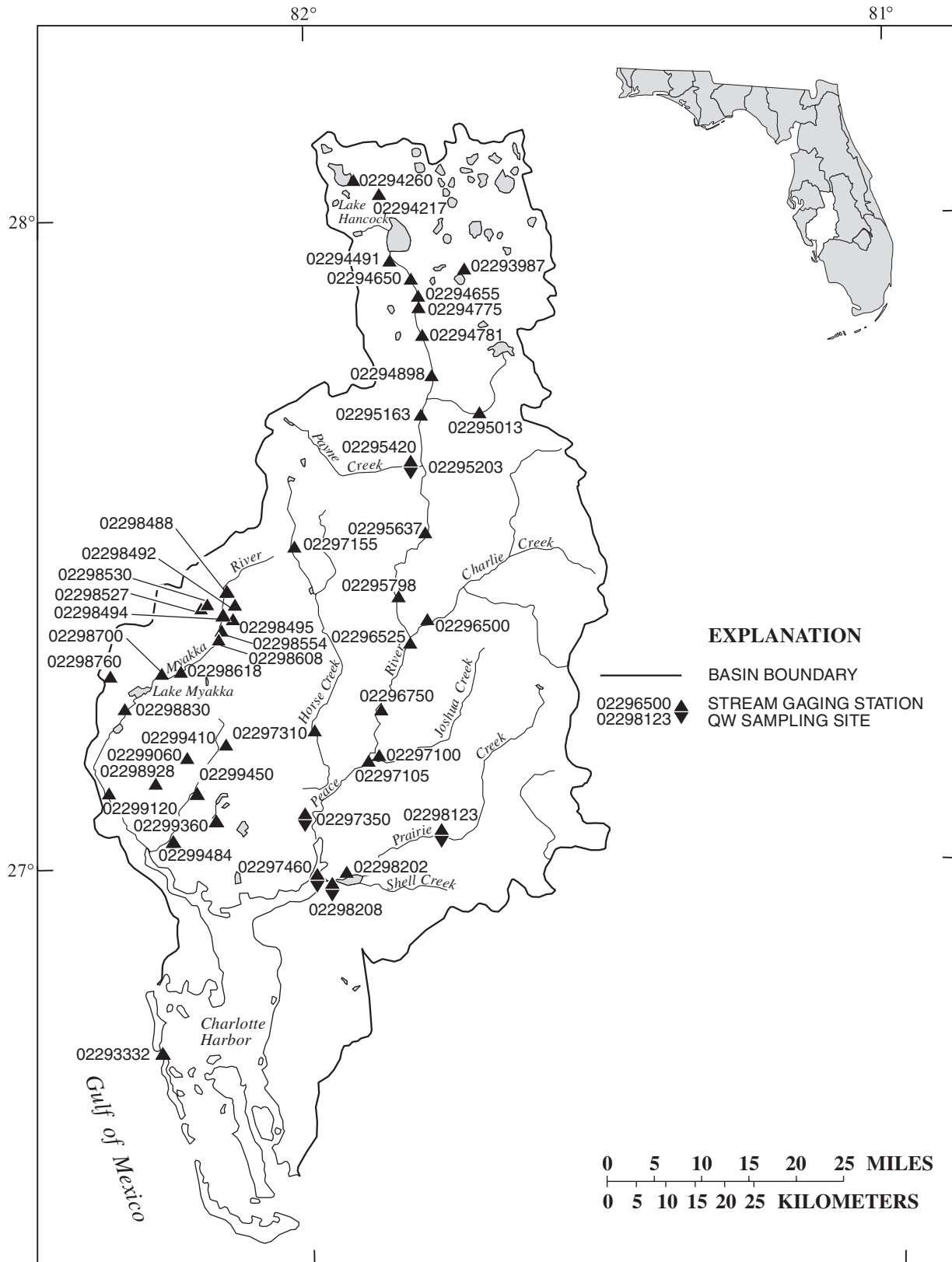


Figure 14.--Location of stream gaging stations in the Peace and Myakka River basins, Charlotte Harbor and Coastal area.

CHARLOTTE HARBOR AND COASTAL AREA

02293332 CHARLOTTE HARBOR AT PORT BOCA GRANDE, FL

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

DRAINAGE AREA.--Indeterminate.

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

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

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

REMARKS.--Records good. Stage affected by wind and tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.57 ft, Sept. 14, 2001; minimum, 1.71 ft below NGVD, Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.47 ft, Sept. 4; minimum, 1.71 ft below NGVD, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	1.06	0.06	1.92	0.01	1.85	-0.66	1.58	-1.18	1.09	-0.89	0.92	-0.66
2	1.29	0.20	1.99	0.00	1.66	-0.92	1.62	-0.93	0.62	-0.66	1.77	0.16
3	1.49	0.28	2.06	0.04	1.52	-0.98	1.83	-0.54	0.70	-0.50	1.53	-0.06
4	1.64	0.33	1.85	-0.43	1.44	-1.15	0.43	-1.58	0.45	-0.88	0.49	-1.70
5	1.76	0.37	2.02	-0.23	1.27	-0.91	0.85	-0.49	1.02	-1.17	0.21	-1.71
6	1.89	0.32	1.82	-0.11	1.18	-0.71	1.66	0.21	1.68	-0.80	0.67	-1.43
7	1.97	0.16	1.64	-0.21	1.10	-0.41	0.93	-0.65	1.50	-0.23	1.13	-0.89
8	1.30	-0.20	1.75	0.03	1.46	0.16	0.44	-1.41	1.04	-1.16	1.11	-0.73
9	1.08	-0.63	1.56	-0.08	1.16	0.06	0.77	-1.26	1.11	-1.04	0.77	-0.70
10	1.26	-0.26	1.35	0.04	1.46	0.02	1.31	-1.22	1.04	-0.94	0.44	-1.01
11	1.85	0.33	1.67	0.52	1.58	-0.38	1.13	-1.08	1.04	-1.24	1.11	-1.14
12	2.09	0.43	1.59	0.24	1.62	-0.61	1.56	-1.16	1.09	-0.89	1.46	-0.47
13	2.44	0.98	1.67	-0.19	1.89	-0.77	1.51	-1.21	1.07	-0.81	1.49	-0.12
14	2.32	0.65	1.63	-0.28	1.79	-0.59	1.69	-0.74	0.79	-1.09	0.93	-0.36
15	1.88	0.61	1.81	-0.47	1.77	-0.67	1.75	-0.80	0.76	-0.44	0.80	-0.33
16	1.70	0.33	1.81	-0.55	1.63	-0.93	0.81	-1.11	0.91	-0.27	0.85	-0.33
17	1.48	-0.41	1.41	-1.15	1.69	-0.51	0.70	-0.84	0.63	-0.43	0.71	-0.54
18	1.25	-0.80	1.65	-0.94	1.75	-0.37	0.73	-0.69	0.60	-0.58	0.87	-0.70
19	1.94	-0.33	1.73	-0.39	1.51	-0.26	0.68	-0.46	1.14	-0.47	1.01	-0.41
20	2.06	0.08	1.73	0.02	1.24	-0.69	0.68	-0.35	1.68	-0.10	1.32	-0.44
21	1.85	0.07	1.80	0.01	0.74	-0.62	0.52	-0.33	1.33	-0.21	1.19	-0.42
22	1.81	0.18	1.50	0.19	0.93	-0.19	0.60	-0.55	1.23	-0.43	0.76	-0.70
23	2.08	0.50	1.34	0.26	1.71	0.34	0.95	-0.71	0.99	-0.79	1.06	-1.19
24	1.95	0.58	1.42	0.52	1.15	0.45	1.50	-0.89	1.33	-1.02	1.50	-0.98
25	1.75	0.37	1.25	0.29	1.25	-0.05	1.07	-0.69	1.72	-1.13	1.36	-0.63
26	1.36	-0.21	1.20	0.32	0.88	-0.36	1.25	-1.05	1.88	-0.75	1.27	-0.73
27	0.59	-0.55	1.48	-0.08	1.82	-0.69	1.43	-1.28	1.91	-0.63	1.15	-0.77
28	0.66	-0.13	1.73	-0.26	2.24	-0.45	1.52	-1.25	0.92	-0.93	1.10	-0.65
29	0.96	-0.13	1.77	-0.18	2.07	-0.08	1.53	-1.16	---	---	0.97	-0.67
30	1.20	-0.16	1.85	-0.45	1.76	-0.74	1.43	-1.11	---	---	1.26	-0.52
31	1.56	-0.07	---	---	1.69	-0.89	1.35	-0.85	---	---	1.55	-0.44
MONTH	2.44	-0.80	2.06	-1.15	2.24	-1.15	1.83	-1.58	1.91	-1.24	1.77	-1.71

PEACE RIVER BASIN

02293987 PEACE CREEK DRAINAGE CANAL NEAR WAHNETA, FL

LOCATION.--Lat 27°55'28", long 81°43'37" (1927 North American datum), in SE¹/₄ sec.29, T.29 S., R.26 E., Polk County, Hydrologic Unit 03100101, on left bank, about 75 ft downstream from bridge on State Highway 665, 0.5 mi north of State Highway 60, 1.9 mi south of Wahnetta, 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). Prior to May 10, 1995, 75 ft upstream on highway bridge at same datum.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	53	17	11	13	29	5.2	3.0	2.8	203	77	176
2	261	52	17	11	12	30	5.0	2.6	3.8	227	71	184
3	239	50	16	14	12	31	7.1	2.3	7.1	232	75	209
4	219	49	16	16	11	31	13	3.9	2.6	222	86	198
5	200	47	15	16	10	24	8.4	3.8	1.1	209	81	204
6	183	44	15	15	10	20	7.1	2.2	1.1	196	75	195
7	167	42	14	16	12	19	6.2	1.9	1.8	181	68	190
8	153	39	15	13	13	19	5.9	1.8	15	168	66	181
9	144	38	14	12	13	17	5.4	1.6	20	167	61	172
10	135	36	14	12	12	16	5.2	1.4	20	169	55	159
11	126	34	14	12	13	15	5.3	1.1	12	164	49	148
12	115	33	14	13	14	14	5.0	0.98	8.5	178	45	139
13	106	33	14	13	14	14	5.3	0.89	6.4	205	42	127
14	98	36	13	13	13	13	5.4	0.81	5.0	215	40	117
15	97	35	13	23	12	12	6.2	0.82	4.2	210	44	109
16	98	33	13	30	11	11	5.2	0.82	3.8	201	47	100
17	92	31	13	27	11	11	4.6	0.89	3.3	189	56	90
18	85	29	13	24	10	9.8	4.2	0.88	3.6	177	85	82
19	79	28	13	22	9.1	9.3	3.8	2.9	5.6	165	92	74
20	79	28	13	20	8.6	8.7	3.4	3.3	9.5	153	87	71
21	81	27	13	19	9.5	8.3	3.2	2.4	15	143	84	66
22	82	25	12	19	13	8.0	3.1	2.0	26	131	86	60
23	79	24	12	22	33	7.8	4.7	1.6	44	118	86	56
24	77	22	12	20	62	7.6	9.0	1.6	42	104	83	57
25	78	21	12	17	62	7.4	5.3	2.9	63	94	77	68
26	78	20	12	17	53	7.1	3.1	7.3	75	97	70	76
27	77	20	11	16	43	6.8	2.8	8.9	85	98	69	74
28	68	17	11	16	34	6.4	3.5	9.2	88	91	67	69
29	62	19	12	13	---	6.1	3.7	3.7	119	99	70	63
30	57	18	13	12	---	5.8	3.4	1.4	160	92	85	58
31	55	---	13	13	---	5.6	---	1.3	---	86	155	---
TOTAL	3753	983	419	517	543.2	430.7	158.7	80.19	854.2	4984	2234	3572
MEAN	121	32.8	13.5	16.7	19.4	13.9	5.29	2.59	28.5	161	72.1	119
MAX	283	53	17	30	62	31	13	9.2	160	232	155	209
MIN	55	17	11	11	8.6	5.6	2.8	0.81	1.1	86	40	56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	138	62.4	65.1	101	86.6	84.7	60.0	11.4	26.6	74.2	142	199
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	24.1	5.32	5.98	5.63	4.92	7.28	3.86	1.87	2.02	13.7	18.6	39.8
(WY)	2001	2001	2001	2001	2001	2000	1999	2000	2001	2001	1998	1999

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1992 - 2002

ANNUAL TOTAL	18479.53	18528.99	
ANNUAL MEAN	50.6	50.8	87.5
HIGHEST ANNUAL MEAN			211
LOWEST ANNUAL MEAN			37.1
HIGHEST DAILY MEAN	574	Sep 15	739
LOWEST DAILY MEAN	0.21	May 25	0.21
ANNUAL SEVEN-DAY MINIMUM	0.31	May 15	0.31
MAXIMUM PEAK FLOW		297	739
MAXIMUM PEAK STAGE		41.77	44.16
10 PERCENT EXCEEDS	117	159	266
50 PERCENT EXCEEDS	9.5	19	31
90 PERCENT EXCEEDS	0.70	3.4	5.6

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02294217 SADDLE CREEK AT STATE HIGHWAY 542 NEAR LAKELAND, FL

LOCATION.--Lat 28°02'38", long 81°52'35" (1927 North American datum), in SE¼ 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 and tipping bucket raingage recorders. Datum of gage is 90.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	9.6	2.5	1.5	3.3	12	1.9	0.10	0.00	13	17	215
2	46	9.7	2.4	1.7	3.2	12	1.7	0.08	0.00	12	18	220
3	37	9.7	2.3	1.9	1.8	12	2.0	0.07	0.00	11	22	216
4	31	9.7	2.1	1.6	1.4	12	2.3	0.05	0.00	8.0	38	210
5	29	9.5	2.1	1.5	1.2	12	2.0	0.04	0.00	7.1	29	241
6	26	9.0	2.1	1.6	1.1	11	1.8	0.03	0.00	7.0	24	225
7	25	8.6	2.0	1.5	1.3	11	1.4	0.02	0.00	6.4	23	179
8	26	8.5	2.0	1.5	1.4	11	1.1	0.00	0.00	5.6	28	141
9	24	8.4	1.9	1.4	1.3	10	0.94	0.00	0.09	6.5	24	116
10	22	8.1	2.0	1.4	1.3	9.5	0.77	0.00	0.22	6.7	20	103
11	20	7.8	2.2	1.4	1.3	9.4	0.73	0.00	0.11	8.3	17	97
12	19	7.5	2.0	1.4	1.3	8.5	0.71	0.00	0.07	8.7	15	92
13	18	7.8	2.0	1.5	1.2	8.3	0.73	0.00	0.04	18	14	100
14	18	7.8	1.9	1.6	1.2	8.4	0.73	0.00	0.02	22	14	124
15	24	6.9	1.9	2.6	1.1	7.6	0.75	0.00	0.03	20	29	147
16	23	7.6	1.9	2.1	1.2	7.6	0.64	0.00	0.01	19	37	153
17	20	7.4	1.8	1.9	1.1	7.3	0.56	0.00	0.02	17	41	146
18	18	7.2	2.1	2.0	1.1	6.7	0.50	0.00	0.38	17	50	141
19	16	7.0	1.9	3.4	1.1	6.1	0.45	0.00	0.45	17	56	133
20	15	6.8	1.7	2.2	1.1	5.9	0.41	0.00	0.52	17	68	119
21	15	7.6	1.7	2.2	1.1	5.5	0.38	0.00	0.34	27	82	107
22	15	7.1	1.6	3.8	3.1	5.2	0.34	0.00	0.20	26	96	97
23	14	6.8	1.6	3.6	12	4.8	0.31	0.00	3.1	22	111	86
24	13	6.4	1.7	3.0	20	4.4	0.27	0.00	35	19	119	77
25	13	6.1	1.8	3.8	13	3.9	0.24	0.00	128	22	116	89
26	13	4.9	1.8	4.6	12	3.6	0.22	0.00	112	23	123	98
27	12	3.5	1.6	5.2	13	3.3	0.20	0.00	68	19	133	103
28	12	3.6	1.5	5.6	13	2.9	0.16	0.00	32	16	137	111
29	11	3.0	1.5	4.8	---	2.6	0.14	0.00	18	15	136	120
30	10	2.7	1.5	4.0	---	2.4	0.12	0.00	13	16	165	118
31	9.8	---	1.5	3.4	---	2.1	---	0.00	---	19	197	---
TOTAL	651.8	216.3	58.6	79.7	116.2	229.0	24.50	0.39	411.60	471.3	1999	4124
MEAN	21.0	7.21	1.89	2.57	4.15	7.39	0.82	0.013	13.7	15.2	64.5	137
MAX	57	9.7	2.5	5.6	20	12	2.3	0.10	128	27	197	241
MIN	9.8	2.7	1.5	1.4	1.1	2.1	0.12	0.00	0.00	5.6	14	77
AC-FT	1290	429	116	158	230	454	49	0.8	816	935	3970	8180
CFSM	0.40	0.14	0.04	0.05	0.08	0.14	0.02	0.00	0.26	0.29	1.22	2.59
IN.	0.46	0.15	0.04	0.06	0.08	0.16	0.02	0.00	0.29	0.33	1.40	2.89
*PREC	1.33	0.27	1.24	1.44	4.56	0.51	1.34	3.92	11.82	5.23	7.64	5.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	33.2	21.0	45.7	30.9	33.6	46.7	11.7	2.18	7.31	21.6	50.9	81.6			
MAX	81.0	97.6	286	188	208	253	65.4	10.3	32.1	99.9	115	219			
(WY)	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988	1988			
MIN	0.99	0.024	0.000	0.000	0.000	0.035	0.000	0.000	0.000	0.10	4.18	11.6			
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2000	2000	1998	1999			

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1988 - 2002	
ANNUAL TOTAL	4534.44		8382.39			
ANNUAL MEAN	12.4		23.0		32.3	
HIGHEST ANNUAL MEAN					104	
LOWEST ANNUAL MEAN					5.50	
HIGHEST DAILY MEAN	300		241		597	
LOWEST DAILY MEAN	0.00		0.00		0.00	
ANNUAL SEVEN-DAY MINIMUM	0.00		0.00		0.00	
MAXIMUM PEAK FLOW			246		609	
MAXIMUM PEAK STAGE			15.42		16.63	
ANNUAL RUNOFF (AC-FT)	8990		16630		23420	
ANNUAL RUNOFF (CFSM)	0.23		0.43		0.61	
ANNUAL RUNOFF (INCHES)	3.18		5.88		8.29	
10 PERCENT EXCEEDS	26		97		112	
50 PERCENT EXCEEDS	0.00		5.5		4.8	
90 PERCENT EXCEEDS	0.00		0.03		0.00	

*PRECIPITATION, TOTAL, INCHES

PEACE RIVER BASIN

02294260 LAKE PARKER OUTLET AT LAKELAND, FL

LOCATION.--Lat 28°03'34", long 81°54'52" (1927 North American datum), in SE¼ sec.9, T.25 S., R.24 E., Polk County, Hydrologic Unit 03100101, at Lake Parker Outlet, 0.9 mi northeast of old Lakeland power plant, and 2.8 mi northeast of Lakeland.

DRAINAGE AREA.--Undetermined.

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

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

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	98
2	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	95
3	0.79	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	93
4	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90
5	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	75
6	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	27
7	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.24
8	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.18
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.15
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.15
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	34
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	51
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	51
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35	51
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36	50
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	50
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29	49
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78	17
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	101	0.13
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97	0.12
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91	0.11
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	86	0.10
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76	0.08
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67	36
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83	58
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82	58
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80	57
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	25	55
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.25	29
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	67	---
TOTAL	4.67	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.07	1061.72	1125.85
MEAN	0.15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	34.2	37.5
MAX	1.4	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.07	101	98
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
AC-FT	9.3	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.04	0.1	2110	2230
*PREC	2.36	0.89	0.93	1.59	5.60	0.62	1.82	3.88	11.84	7.06	13.61	6.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MEAN	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	17.1	23.5
MAX	0.15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	34.2	37.5
(WY)	2002	2001	2001	2001	2001	2001	2001	2001	2001	2002	2002	2002
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.45
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	288.08	2192.34		
ANNUAL MEAN	0.79	6.01	3.39	
HIGHEST ANNUAL MEAN			6.01	2002
LOWEST ANNUAL MEAN			0.78	2001
HIGHEST DAILY MEAN	75	Sep 15	101	Aug 20 2002
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 8
MAXIMUM PEAK FLOW			117	Aug 19 2002
MAXIMUM PEAK STAGE			3.80	Aug 19
ANNUAL RUNOFF (AC-FT)	571	4350	2460	
10 PERCENT EXCEEDS	0.00	7.6	0.07	
50 PERCENT EXCEEDS	0.00	0.00	0.00	
90 PERCENT EXCEEDS	0.00	0.00	0.00	

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02294650 PEACE RIVER AT BARTOW, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.30	5.03	3.77	3.20	3.19	4.28	2.59	2.44	2.46	5.11	6.55	6.72
2	6.93	4.98	3.73	3.21	3.16	4.12	2.60	2.41	2.27	5.32	6.22	6.77
3	6.76	4.93	3.70	3.26	3.12	4.03	2.69	2.36	2.33	5.45	6.43	6.83
4	6.73	4.88	3.68	3.32	3.08	4.03	2.92	2.32	2.47	5.63	6.47	6.87
5	6.82	4.85	3.66	3.36	3.03	3.96	3.08	2.40	2.36	5.78	6.38	7.02
6	6.78	4.79	3.64	3.39	3.02	3.86	2.91	2.39	2.27	5.86	6.07	7.09
7	6.74	4.72	3.62	3.37	3.10	3.75	2.78	2.30	2.13	5.90	6.15	7.06
8	6.63	4.65	3.55	3.35	3.16	3.67	2.70	2.24	2.65	5.91	6.03	7.11
9	6.38	4.57	3.53	3.27	3.20	3.61	2.65	2.21	2.79	5.95	6.27	7.19
10	6.21	4.50	---	3.20	3.16	3.55	2.61	2.16	2.95	5.95	6.25	7.10
11	6.10	4.43	---	3.16	3.19	3.49	2.61	2.15	3.01	5.93	5.65	6.98
12	6.02	4.37	3.37	3.15	3.20	3.44	2.58	2.09	2.85	5.94	5.33	---
13	5.94	4.33	3.31	3.19	3.21	3.40	2.63	2.03	2.66	5.99	5.23	---
14	5.88	4.40	3.28	3.25	3.24	3.35	2.83	1.96	2.54	6.03	5.10	---
15	6.00	4.40	3.24	3.71	3.28	3.31	3.06	1.88	2.52	6.06	5.39	---
16	5.82	4.39	3.21	3.78	3.22	3.27	2.81	1.78	2.43	6.08	5.63	---
17	5.71	4.34	3.22	3.85	3.17	3.21	2.73	1.69	2.44	6.07	5.75	---
18	5.65	4.28	3.26	3.82	3.12	3.15	2.65	1.60	2.69	6.07	5.92	---
19	5.58	4.24	3.23	3.76	3.07	3.09	2.58	2.31	2.82	6.03	6.11	---
20	5.51	4.21	3.22	3.71	3.00	3.03	2.52	2.68	2.87	6.01	6.25	---
21	5.47	4.19	3.22	3.64	2.96	2.92	2.50	2.31	2.74	5.97	6.33	---
22	5.46	4.15	3.20	3.58	3.29	2.88	2.48	2.25	3.04	5.90	6.35	---
23	5.48	4.09	3.19	3.55	3.86	2.84	2.45	2.19	3.24	5.92	6.09	---
24	5.55	4.04	3.20	3.60	4.22	2.80	2.56	2.14	3.62	6.09	5.94	---
25	5.47	3.99	3.20	3.53	4.44	2.78	2.73	2.10	3.73	6.31	5.90	---
26	5.43	3.93	3.26	3.46	4.58	2.76	2.56	2.14	3.99	6.46	6.14	---
27	5.38	3.90	3.21	3.42	4.55	2.75	2.43	2.44	3.93	6.30	6.39	---
28	5.32	3.86	3.16	3.40	4.43	2.71	2.40	2.56	4.18	6.26	6.44	---
29	5.24	3.79	3.14	3.36	---	2.67	2.44	2.59	4.52	6.34	6.51	---
30	5.15	3.79	3.17	3.29	---	2.64	2.47	2.52	4.76	6.63	6.60	---
31	5.08	---	3.19	3.23	---	2.61	---	2.28	---	6.66	6.70	---
MEAN	5.95	4.37	---	3.43	3.40	3.29	2.65	2.22	2.98	6.00	6.08	---
MAX	7.30	5.03	---	3.85	4.58	4.28	3.08	2.68	4.76	6.66	6.70	---
MIN	5.08	3.79	---	3.15	2.96	2.61	2.40	1.60	2.13	5.11	5.10	---

PEACE RIVER BASIN

02294655 PEACE RIVER NEAR BARTOW, FL

LOCATION.--Lat 27°52'59", long 81°48'16" (1983 North American datum), in SW¹/₄ sec.10, T.30 S., R.25 E., Polk County, Hydrologic Unit 03100101, near center of span on downstream side of natural gas pipeline truss bridge, 2.5 mi southeast of Bartow, and 102.1 mi upstream from mouth.

DRAINAGE AREA.--395 mi².

PERIOD OF RECORD.--May to September 2002.

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

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

DISCHARGE, CUBIC FEET PER SECOND, PERIOD MAY TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	0.00	71	323	336
2	---	---	---	---	---	---	---	---	0.00	87	271	342
3	---	---	---	---	---	---	---	---	0.00	89	253	354
4	---	---	---	---	---	---	---	---	0.00	94	280	373
5	---	---	---	---	---	---	---	---	0.00	101	275	424
6	---	---	---	---	---	---	---	---	0.00	112	234	436
7	---	---	---	---	---	---	---	---	0.00	128	211	442
8	---	---	---	---	---	---	---	---	0.00	134	202	429
9	---	---	---	---	---	---	---	---	0.00	142	204	450
10	---	---	---	---	---	---	---	---	0.00	147	232	419
11	---	---	---	---	---	---	---	---	0.00	149	195	383
12	---	---	---	---	---	---	---	---	0.00	156	123	419
13	---	---	---	---	---	---	---	---	0.00	160	95	645
14	---	---	---	---	---	---	---	---	0.00	160	78	777
15	---	---	---	---	---	---	---	0.00	0.00	159	93	820
16	---	---	---	---	---	---	---	0.00	0.00	162	100	767
17	---	---	---	---	---	---	---	0.00	0.00	164	115	703
18	---	---	---	---	---	---	---	0.00	0.00	164	137	653
19	---	---	---	---	---	---	---	0.00	0.00	162	172	626
20	---	---	---	---	---	---	---	0.00	0.00	156	194	645
21	---	---	---	---	---	---	---	0.00	0.00	151	215	635
22	---	---	---	---	---	---	---	0.00	0.00	140	228	622
23	---	---	---	---	---	---	---	0.00	0.01	131	216	607
24	---	---	---	---	---	---	---	0.00	4.1	155	178	601
25	---	---	---	---	---	---	---	0.00	8.0	213	159	581
26	---	---	---	---	---	---	---	0.00	13	314	191	488
27	---	---	---	---	---	---	---	0.00	15	279	221	441
28	---	---	---	---	---	---	---	0.00	20	249	254	414
29	---	---	---	---	---	---	---	0.00	37	242	269	354
30	---	---	---	---	---	---	---	0.00	51	291	303	301
31	---	---	---	---	---	---	---	0.00	---	320	341	---
TOTAL	---	---	---	---	---	---	---	---	148.11	5182	6362	15487
MEAN	---	---	---	---	---	---	---	---	4.94	167	205	516
MAX	---	---	---	---	---	---	---	---	51	320	341	820
MIN	---	---	---	---	---	---	---	---	0.00	71	78	301
MED	---	---	---	---	---	---	---	---	0.00	156	211	446
AC-FT	---	---	---	---	---	---	---	---	294	10280	12620	30720
CFSM	---	---	---	---	---	---	---	---	0.01	0.42	0.52	1.31
IN.	---	---	---	---	---	---	---	---	0.01	0.49	0.60	1.46

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

MEAN	---	---	---	---	---	---	---	---	4.94	167	205	516
MAX	---	---	---	---	---	---	---	---	4.94	167	205	516
(WY)	---	---	---	---	---	---	---	---	2002	2002	2002	2002
MIN	---	---	---	---	---	---	---	---	4.94	167	205	516
(WY)	---	---	---	---	---	---	---	---	2002	2002	2002	2002

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02294775 PEACE RIVER AT CLEAR SPRINGS NEAR BARTOW, FL

LOCATION.--Lat 27°51'48", long 81°48'27" (1983 North American datum), in NW¼ sec.22, T.30 S., R.25 E., Polk County, Hydrologic Unit 03100101, near right bank on downstream side of bridge, 1.1 mi southeast of Bartow city limits, and 101 mi upstream from mouth.

DRAINAGE AREA.--396 mi².

PERIOD OF RECORD.--May to September 2002.

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

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

DISCHARGE, CUBIC FEET PER SECOND, PERIOD MAY TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	0.00	101	269	319
2	---	---	---	---	---	---	---	---	0.00	111	242	317
3	---	---	---	---	---	---	---	---	0.00	116	201	322
4	---	---	---	---	---	---	---	---	0.00	119	218	336
5	---	---	---	---	---	---	---	---	0.00	125	222	386
6	---	---	---	---	---	---	---	---	0.00	132	200	395
7	---	---	---	---	---	---	---	---	0.00	141	165	399
8	---	---	---	---	---	---	---	---	0.00	154	159	387
9	---	---	---	---	---	---	---	---	0.00	165	150	409
10	---	---	---	---	---	---	---	---	0.00	171	168	403
11	---	---	---	---	---	---	---	---	0.00	174	166	375
12	---	---	---	---	---	---	---	---	0.00	184	127	366
13	---	---	---	---	---	---	---	---	0.00	190	102	490
14	---	---	---	---	---	---	---	---	0.00	189	85	596
15	---	---	---	---	---	---	---	0.00	0.00	180	97	643
16	---	---	---	---	---	---	---	0.00	0.00	178	97	615
17	---	---	---	---	---	---	---	0.00	0.00	178	106	572
18	---	---	---	---	---	---	---	0.00	0.00	179	118	529
19	---	---	---	---	---	---	---	0.00	0.00	164	139	508
20	---	---	---	---	---	---	---	0.00	0.00	143	157	515
21	---	---	---	---	---	---	---	0.00	0.00	140	177	513
22	---	---	---	---	---	---	---	0.00	0.00	136	189	502
23	---	---	---	---	---	---	---	0.00	0.00	133	189	493
24	---	---	---	---	---	---	---	0.00	0.00	132	160	493
25	---	---	---	---	---	---	---	0.00	0.00	153	144	503
26	---	---	---	---	---	---	---	0.00	0.00	234	169	438
27	---	---	---	---	---	---	---	0.00	0.00	238	192	397
28	---	---	---	---	---	---	---	0.00	0.00	204	223	374
29	---	---	---	---	---	---	---	0.00	51	189	237	340
30	---	---	---	---	---	---	---	0.00	76	217	281	292
31	---	---	---	---	---	---	---	0.00	---	256	324	---
TOTAL	---	---	---	---	---	---	---	---	127.00	5126	5473	13227
MEAN	---	---	---	---	---	---	---	---	4.23	165	177	441
MAX	---	---	---	---	---	---	---	---	76	256	324	643
MIN	---	---	---	---	---	---	---	---	0.00	101	85	292
MED	---	---	---	---	---	---	---	---	0.00	165	168	406
AC-FT	---	---	---	---	---	---	---	---	252	10170	10860	26240
CFSM	---	---	---	---	---	---	---	---	0.01	0.42	0.45	1.11
IN.	---	---	---	---	---	---	---	---	0.01	0.48	0.51	1.24

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

MEAN	---	---	---	---	---	---	---	---	4.23	165	177	441
MAX	---	---	---	---	---	---	---	---	4.23	165	177	441
(WY)	---	---	---	---	---	---	---	---	2002	2002	2002	2002
MIN	---	---	---	---	---	---	---	---	4.23	165	177	441
(WY)	---	---	---	---	---	---	---	---	2002	2002	2002	2002

PEACE RIVER BASIN

02294781 PEACE RIVER NEAR HOMELAND, FL

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

DRAINAGE AREA.--411 mi².

PERIOD OF RECORD.--1974, 1979 (miscellaneous highwater discharge measurements only); October 1980 to June 1998 (discharge measurements only); July 1998 to September 2001 (gage heights and discharge measurements only); October 2001 to September 2002.

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

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

REMARKS.--Records good except those for estimated daily discharges, which are fair. Loss of water to ground-water system may occur each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	708	69	19	4.6	3.5	40	4.7	2.5	16	165	325	433
2	648	61	18	5.4	4.6	37	3.9	0.98	13	141	341	425
3	532	57	17	7.4	7.1	33	3.3	0.40	9.0	116	311	420
4	430	56	15	7.0	6.7	29	3.6	0.28	3.3	104	273	423
5	372	55	13	6.0	6.1	26	3.2	0.38	0.47	100	273	469
6	365	50	12	5.8	5.8	23	3.1	0.56	0.28	101	266	510
7	369	51	13	5.8	6.2	20	3.0	0.72	2.6	109	236	515
8	358	52	14	5.8	7.3	17	2.9	0.92	13	127	203	513
9	335	53	13	5.6	7.7	14	3.0	1.1	13	153	181	509
10	291	49	13	5.6	8.3	14	3.0	1.0	13	171	174	509
11	236	47	12	5.6	9.5	13	2.9	0.56	13	184	189	475
12	193	44	11	5.6	10	9.5	2.8	0.50	11	211	e181	441
13	166	41	9.9	5.8	10	7.8	3.6	0.54	12	225	e160	483
14	145	41	9.1	6.6	13	7.4	4.7	0.62	12	235	e110	703
15	130	41	8.4	12	18	7.4	7.6	0.53	11	226	e104	873
16	128	41	7.9	13	17	7.5	8.6	0.35	9.5	211	e103	893
17	128	40	7.9	12	12	7.5	11	0.35	9.9	201	106	841
18	118	39	7.8	11	9.4	7.3	10	0.39	12	197	133	773
19	108	38	7.5	12	7.9	4.0	7.4	2.5	14	201	144	732
20	99	36	7.1	12	6.9	1.8	9.9	9.6	19	205	179	702
21	93	35	6.6	11	6.3	0.76	9.9	7.9	23	196	205	707
22	91	34	6.0	10	10	1.3	9.1	4.9	22	186	230	698
23	87	33	5.7	9.3	24	4.5	8.4	1.2	21	174	237	684
24	88	31	5.7	8.9	34	8.4	7.8	0.27	20	162	228	711
25	92	29	5.5	8.8	38	5.2	7.6	0.04	21	166	189	793
26	90	27	5.9	8.5	40	5.0	7.3	0.00	27	241	195	717
27	85	25	5.8	7.9	43	5.0	6.9	0.00	29	315	227	617
28	80	24	5.8	3.9	44	5.0	6.2	0.00	36	311	257	548
29	73	22	5.8	2.3	---	5.1	5.2	0.00	69	275	299	503
30	70	20	5.4	2.3	---	5.2	4.1	0.52	112	266	359	435
31	70	---	5.2	3.2	---	5.0	---	6.3	---	286	407	---
MEAN	219	41.4	9.65	7.44	14.9	12.2	5.82	1.48	19.6	192	220	602
MAX	708	69	19	13	44	40	11	9.6	112	315	407	893
MIN	70	20	5.2	2.3	3.5	0.76	2.8	0.00	0.28	100	103	420

e Estimated

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

MEAN	219	41.4	9.65	7.44	14.9	12.2	5.82	1.48	19.6	192	220	602
MAX	219	41.4	9.65	7.44	14.9	12.2	5.82	1.48	19.6	192	220	602
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	219	41.4	9.65	7.44	14.9	12.2	5.82	1.48	19.6	192	220	602
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2002 WATER YEAR

ANNUAL MEAN	112	
HIGHEST DAILY MEAN	893	Sep 16
LOWEST DAILY MEAN	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.12	May 24
MAXIMUM PEAK FLOW	930	Sep 16
MAXIMUM PEAK STAGE	87.12	Sep 16
10 PERCENT EXCEEDS	370	
50 PERCENT EXCEEDS	17	
90 PERCENT EXCEEDS	2.9	

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" (1927 North American datum), 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.

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

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

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Water diverted into river from ground-water sources by upstream mining industries affects flow on many days. Significant loss of water to ground-water system may occur each year between 02294650 Peace River at Bartow and this station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	769	94	32	14	8.8	59	4.3	1.4	13	792	291	444
2	713	88	31	15	8.8	53	4.0	0.90	17	511	325	461
3	643	80	30	20	11	47	3.7	0.64	9.2	306	341	467
4	539	78	29	20	12	42	3.6	0.54	5.1	215	309	445
5	444	77	26	39	10	37	3.2	0.49	2.4	173	277	454
6	390	72	25	35	9.8	33	2.8	0.44	1.8	155	269	514
7	378	68	27	32	12	30	2.5	e0.44	11	148	258	536
8	376	70	32	28	15	27	2.3	e0.41	57	157	235	537
9	361	72	30	26	14	23	2.1	e0.39	41	181	209	531
10	335	70	28	24	14	20	2.1	e0.35	21	199	193	533
11	290	66	35	22	17	19	2.1	e0.32	17	205	193	536
12	239	63	48	20	17	16	2.2	e0.28	14	229	203	513
13	203	60	25	20	17	13	3.9	e0.27	11	262	182	472
14	181	59	22	21	17	11	4.6	e0.26	12	288	133	528
15	165	59	21	40	24	11	9.7	e0.24	11	268	124	771
16	155	59	20	38	25	10	8.8	e0.22	10	241	124	893
17	158	57	19	33	20	9.8	9.1	e0.21	9.2	222	130	889
18	150	56	20	28	15	9.3	9.1	e0.19	12	213	190	837
19	139	55	19	26	13	8.1	7.1	3.1	17	212	182	781
20	128	54	18	26	11	5.8	5.6	3.2	24	219	192	741
21	124	53	17	24	10	3.9	7.1	4.4	57	219	213	718
22	123	52	16	21	19	2.9	6.3	2.8	63	203	233	715
23	119	50	15	20	53	3.2	5.5	1.5	51	192	245	704
24	119	49	16	17	73	7.5	4.7	0.63	46	180	247	754
25	122	46	15	16	67	6.7	4.1	0.33	57	174	231	973
26	122	44	17	15	64	5.7	3.6	0.27	66	224	210	878
27	115	42	16	15	64	5.3	3.2	0.34	71	271	231	762
28	109	39	16	13	63	4.8	2.7	0.42	92	299	255	652
29	102	37	16	9.7	---	4.8	2.2	0.40	264	321	282	571
30	95	35	15	8.7	---	4.6	1.7	0.86	336	368	338	511
31	94	---	15	9.0	---	4.4	---	2.3	---	288	405	---
TOTAL	8000	1804	711	695.4	704.4	537.8	133.9	28.54	1418.7	7935	7250	19121
MEAN	258	60.1	22.9	22.4	25.2	17.3	4.46	0.92	47.3	256	234	637
MAX	769	94	48	40	73	59	9.7	4.4	336	792	405	973
MIN	94	35	15	8.7	8.8	2.9	1.7	0.19	1.8	148	124	444
CFSM	0.54	0.13	0.05	0.05	0.05	0.04	0.01	0.00	0.10	0.53	0.49	1.33
IN.	0.62	0.14	0.06	0.05	0.05	0.04	0.01	0.00	0.11	0.61	0.56	1.48
*PREC	0.69	0.00	1.16	1.44	2.25	0.13	1.63	4.53	15.28	8.29	5.40	6.24

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2002, 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	1999	2000	2001	2002
MEAN	257	111	120	165	165	187	140	68.2	90.8	207	314	374																
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	2.81	2.91	3.55	2.93	4.57	1.28	0.58	0.60	8.85	54.9	30.3																
(WY)	1991	2001	2001	2001	2001	2000	2000	2000	2000	2000	1989	1990																

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1975 - 2002

ANNUAL TOTAL	31159.80	48339.74		
ANNUAL MEAN	85.4	132	183	1998
HIGHEST ANNUAL MEAN			633	1981
LOWEST ANNUAL MEAN			37.6	1981
HIGHEST DAILY MEAN	921	Sep 29	973	Sep 25
LOWEST DAILY MEAN	0.22	May 19	e0.19	May 18
ANNUAL SEVEN-DAY MINIMUM	0.32	May 14	0.24	May 12
MAXIMUM PEAK FLOW			997	Sep 25
MAXIMUM PEAK STAGE			77.12	Sep 25
ANNUAL RUNOFF (CFSM)	0.18		0.28	
ANNUAL RUNOFF (INCHES)	2.41		3.75	
10 PERCENT EXCEEDS	192		444	500
50 PERCENT EXCEEDS	17		33	74
90 PERCENT EXCEEDS	0.91		2.5	7.2

*PRECIPITATION, TOTAL, INCHES

PEACE RIVER BASIN

02294898 PEACE RIVER AT FORT MEADE, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76.71	71.88	70.64	70.19	70.13	71.28	69.93	69.72	70.26	76.57	73.98	75.09
2	76.52	71.78	70.61	70.19	70.13	71.18	69.91	69.67	70.37	75.42	74.27	75.19
3	76.26	71.66	70.59	70.32	70.19	71.07	69.90	69.64	70.14	74.09	74.39	75.22
4	75.80	71.62	70.55	70.34	70.23	70.96	69.89	69.63	69.97	73.27	74.14	75.10
5	75.28	71.60	70.49	70.78	70.18	70.87	69.87	69.62	69.81	72.84	73.86	75.15
6	74.92	71.51	70.46	70.70	70.16	70.78	69.84	69.61	69.76	72.64	73.79	75.47
7	74.83	71.44	70.51	70.62	70.24	70.70	69.82	---	70.07	72.56	73.69	75.58
8	74.82	71.47	70.64	70.53	70.33	70.62	69.80	---	71.25	72.65	73.47	75.59
9	74.72	71.50	70.58	70.48	70.30	70.53	69.79	---	70.94	72.93	73.22	75.56
10	74.52	71.45	70.54	70.43	70.31	70.46	69.79	---	70.48	73.11	73.05	75.57
11	74.15	71.38	70.68	70.37	70.38	70.44	69.79	---	70.37	73.18	73.06	75.59
12	73.67	71.32	70.96	70.34	70.38	70.35	69.79	---	70.29	73.41	73.16	75.46
13	73.32	71.26	70.45	70.33	70.38	70.26	69.91	---	70.19	73.72	72.93	75.25
14	73.08	71.24	70.39	70.36	70.39	70.21	69.93	---	70.25	73.95	72.37	75.53
15	72.90	71.24	70.35	70.81	70.55	70.20	70.16	---	70.23	73.78	72.25	76.50
16	72.77	71.23	70.32	70.77	70.58	70.18	70.13	---	70.18	73.52	72.26	76.86
17	72.80	71.20	70.31	70.68	70.45	70.16	70.14	---	70.15	73.34	72.33	76.85
18	72.70	71.17	70.32	70.58	70.33	70.15	70.14	---	70.23	73.26	73.02	76.72
19	72.57	71.15	70.31	70.54	70.25	70.10	70.06	69.82	70.38	73.24	72.94	76.54
20	72.42	71.12	70.28	70.54	70.21	70.00	70.00	69.86	70.57	73.32	73.04	76.41
21	72.37	71.09	70.25	70.51	70.17	69.90	70.06	69.93	71.24	73.31	73.25	76.33
22	72.35	71.06	70.23	70.46	70.41	69.84	70.03	69.84	71.36	73.16	73.45	76.31
23	72.29	71.03	70.21	70.44	71.16	69.86	69.99	69.74	71.15	73.04	73.56	76.28
24	72.27	70.99	70.22	70.39	71.51	70.07	69.95	69.64	71.06	72.91	73.59	76.44
25	72.32	70.94	70.22	70.35	71.41	70.04	69.92	69.59	71.26	72.84	73.43	77.07
26	72.30	70.89	70.26	70.33	71.37	70.00	69.89	69.57	71.42	73.37	73.22	76.85
27	72.21	70.84	70.24	70.32	71.36	69.98	69.86	69.59	71.50	73.80	73.43	76.52
28	72.12	70.79	70.23	70.25	71.35	69.96	69.83	69.61	71.71	74.05	73.66	76.15
29	72.01	70.74	70.23	70.16	---	69.95	69.80	69.59	73.74	74.21	73.90	75.84
30	71.91	70.69	70.21	70.12	---	69.95	69.76	69.67	74.05	74.57	74.36	75.56
31	71.88	---	70.20	70.13	---	69.94	---	69.72	---	73.96	74.83	---
MEAN	73.51	71.24	70.40	70.43	70.53	70.32	69.92	---	70.81	73.55	73.42	75.95
MAX	76.71	71.88	70.96	70.81	71.51	71.28	70.16	---	74.05	76.57	74.83	77.07
MIN	71.88	70.69	70.20	70.12	70.13	69.84	69.76	---	69.76	72.56	72.25	75.09

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02295013 BOWLEGS CREEK NEAR FT. MEADE, FL

LOCATION.--Lat 27°41'59", long 81°41'44" (1927 North American datum), in NE¼ 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.--March 1964 to September 1968; February 1991 to current year.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	13	4.2	3.0	2.9	21	2.3	e1.6	1.1	347	81	18
2	80	13	4.0	3.6	2.8	21	2.5	e1.5	0.89	280	86	19
3	70	13	3.8	5.9	2.6	20	2.6	e1.5	0.78	240	118	26
4	64	13	3.7	5.5	2.5	18	2.6	e1.5	0.78	205	123	47
5	58	12	3.6	4.9	2.3	16	2.2	e1.4	1.0	172	104	61
6	52	12	3.5	4.7	2.2	14	2.2	e1.3	1.5	141	80	52
7	47	11	4.2	4.5	2.9	13	2.2	e1.2	3.2	111	63	41
8	43	9.9	7.6	3.9	3.7	12	2.1	e1.2	10	97	53	32
9	38	9.5	6.7	3.7	3.3	11	2.1	e1.2	6.4	98	44	25
10	33	9.0	6.0	3.6	3.1	9.5	2.0	e1.1	4.3	90	37	20
11	30	8.5	5.3	3.4	3.7	8.5	2.1	e1.0	4.7	77	30	19
12	27	8.1	4.8	3.3	3.6	7.7	2.1	e0.97	8.7	108	25	21
13	24	7.9	4.4	3.3	3.1	7.0	2.3	e0.91	6.1	151	22	22
14	23	8.6	4.1	4.3	3.2	6.3	2.2	e0.89	4.9	185	20	30
15	21	8.1	3.8	12	3.1	5.9	2.3	e0.90	4.8	147	19	22
16	19	8.1	3.6	10	2.9	5.4	2.3	e0.94	4.8	115	17	18
17	18	7.4	3.5	8.5	2.7	4.8	2.3	1.0	12	106	15	15
18	16	6.7	3.6	7.6	2.4	4.1	2.2	0.95	15	94	14	13
19	15	6.5	3.6	6.6	2.3	3.7	2.2	2.9	23	78	15	11
20	14	6.3	3.3	6.1	2.2	3.4	2.1	2.5	64	72	15	9.5
21	16	6.1	3.1	5.7	2.1	3.2	2.1	1.8	113	67	21	8.5
22	20	5.7	3.0	5.4	15	3.0	2.2	1.5	96	62	18	8.2
23	19	5.4	3.0	5.1	43	2.7	2.2	1.4	159	62	15	7.4
24	19	5.2	3.0	4.8	43	2.5	e2.2	1.2	203	67	12	13
25	18	5.0	3.0	4.4	32	3.4	e2.0	1.2	225	66	11	29
26	18	4.9	3.7	4.2	25	6.6	e2.0	1.1	222	59	9.3	17
27	18	4.8	3.5	3.7	21	5.1	e1.9	1.1	220	51	8.5	14
28	17	4.4	3.4	3.7	20	3.9	e1.9	0.98	196	46	7.8	12
29	15	4.4	3.2	3.5	---	3.1	e1.8	0.88	207	80	7.3	11
30	15	4.8	3.0	3.3	---	2.7	e1.7	1.1	251	78	8.7	11
31	14	---	3.0	3.1	---	2.4	---	1.1	---	86	20	---
TOTAL	973	242.3	122.2	155.3	258.6	250.9	64.9	39.82	2069.95	3638	1119.6	652.6
MEAN	31.4	8.08	3.94	5.01	9.24	8.09	2.16	1.28	69.0	117	36.1	21.8
MAX	92	13	7.6	12	43	21	2.6	2.9	251	347	123	61
MIN	14	4.4	3.0	3.0	2.1	2.4	1.7	0.88	0.78	46	7.3	7.4
AC-FT	1930	481	242	308	513	498	129	79	4110	7220	2220	1290
CFSM	0.66	0.17	0.08	0.11	0.20	0.17	0.05	0.03	1.46	2.49	0.77	0.46
IN.	0.77	0.19	0.10	0.12	0.20	0.20	0.05	0.03	1.63	2.87	0.88	0.51

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	33.4	13.6	15.0	20.0	24.3	24.3	8.43	3.03	28.0	43.1	55.3	55.2
MAX	134	69.2	86.7	87.5	149	174	45.1	6.92	113	117	196	182
(WY)	1996	1998	1998	1998	1998	1998	1993	1996	1968	2002	1995	1994
MIN	5.86	1.81	1.76	1.82	1.75	1.66	0.54	0.81	1.05	7.85	5.39	8.59
(WY)	1965	2001	2001	1992	2001	1967	1968	2000	2000	1998	1998	1991

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1965 - 2002

ANNUAL TOTAL	9137.21	9587.17		
ANNUAL MEAN	25.0	26.3	27.5	
HIGHEST ANNUAL MEAN			55.6	1995
LOWEST ANNUAL MEAN			11.8	1997
HIGHEST DAILY MEAN	390	Sep 10	347	Jul 1
LOWEST DAILY MEAN	0.59	Jun 12	0.78	Jun 3
ANNUAL SEVEN-DAY MINIMUM	0.66	Apr 23	0.94	May 12
MAXIMUM PEAK FLOW			369	Jun 30
MAXIMUM PEAK STAGE			8.47	Jun 30
ANNUAL RUNOFF (AC-FT)	18120	19020	19930	
ANNUAL RUNOFF (CFSM)	0.53	0.56	0.58	
ANNUAL RUNOFF (INCHES)	7.20	7.56	7.92	
10 PERCENT EXCEEDS	66	80	74	
50 PERCENT EXCEEDS	4.0	6.7	7.6	
90 PERCENT EXCEEDS	0.88	1.8	1.8	

PEACE RIVER BASIN

02295163 WHIDDEN CREEK NEAR FT. MEADE, FL

LOCATION.--Lat 27°42'25", long 81°48'28" (1927 North American datum), in SW¹/₄ sec.10, T.32 S., R.25 E., Polk County, Hydrologic Unit 03100101, on upstream side of bridge on U.S. Highway 17, and 3.3 mi south of Ft. Meade.

DRAINAGE AREA.--Indeterminate.

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

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

REMARKS.--Discharge not computed above gage height of 9.50 ft due to backwater from the Peace River.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	16	13	11	9.5	19	9.3	6.0	12	---	---	---
2	---	19	12	12	9.3	16	9.0	5.8	11	---	---	---
3	40	22	12	14	8.8	15	8.6	5.3	7.0	---	---	---
4	33	22	12	13	8.3	16	9.2	5.1	5.8	---	---	---
5	26	20	12	12	8.8	18	8.9	5.2	5.6	---	---	---
6	20	18	13	12	8.8	18	7.0	5.6	5.6	---	---	---
7	16	17	14	13	9.7	17	5.6	5.8	7.9	---	39	---
8	13	15	14	12	13	18	5.5	5.6	29	---	---	---
9	11	12	15	12	12	18	5.2	5.2	25	---	---	---
10	8.6	11	15	12	11	17	5.1	4.5	14	---	35	---
11	6.6	9.9	14	12	13	17	5.7	4.9	12	---	32	---
12	5.2	9.9	13	12	12	17	6.2	4.9	19	---	33	---
13	3.9	12	13	12	13	18	9.3	4.9	13	---	---	---
14	3.1	13	13	13	13	18	9.3	5.1	11	---	---	---
15	2.8	13	13	27	14	18	10	4.9	14	---	---	---
16	2.5	13	12	28	14	18	9.6	e4.7	15	---	---	---
17	2.3	14	12	22	13	18	8.6	e4.6	15	---	---	---
18	2.0	14	12	19	13	18	7.9	4.7	17	---	---	---
19	2.0	14	12	16	13	18	7.4	7.4	19	---	---	---
20	2.2	14	12	15	12	18	7.0	14	---	---	---	---
21	2.7	14	12	14	12	18	6.9	9.5	---	---	---	---
22	3.4	14	11	13	20	18	6.7	5.9	---	---	---	---
23	15	14	11	13	---	16	6.4	4.7	---	---	---	---
24	26	14	12	12	---	15	6.3	4.2	---	---	---	---
25	23	14	12	12	---	13	6.1	4.2	---	---	---	---
26	20	14	12	12	34	14	6.0	4.1	---	---	---	---
27	17	13	11	11	28	17	5.9	4.2	---	---	---	---
28	16	13	11	11	23	15	5.9	4.2	---	---	---	---
29	15	13	12	10	---	12	6.1	4.3	---	---	---	---
30	14	13	12	9.7	---	11	6.2	7.0	---	---	---	---
31	14	---	11	9.0	---	9.8	---	7.2	---	---	---	---
MEAN	---	14.5	12.4	13.7	---	16.4	7.23	5.60	---	---	---	---
MAX	---	22	15	28	---	19	10	14	---	---	---	---
MIN	---	9.9	11	9.0	---	9.8	5.1	4.1	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
2001	14.5	22	2002	9.9	2001
2002	8.77	15	2001	11	2001
2001	9.83	28	2001	9.0	2001
2002	7.13	19	2001	9.8	2001
2001	12.0	16.4	2001	9.8	2001
2002	7.13	7.23	2001	5.1	2001
2001	4.57	5.60	2001	4.1	2001
2002	9.98	9.98	2001	---	2001
2001	27.1	27.1	2001	---	2001
2002	34.7	34.7	2001	---	2001

SUMMARY STATISTICS

WATER YEARS 2001 - 2002

HIGHEST DAILY MEAN	86	Sep 20 2001
LOWEST DAILY MEAN	1.4	May 19 2001
ANNUAL SEVEN-DAY MINIMUM	1.9	May 15 2001

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

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

LOCATION.--Lat 27°37'39", long 81°48'05" (1927 North American datum), in NW¼ sec.10, T.33 S., R.25 E., Hardee County, Hydrologic Unit 03100101, on left bank, 1,100 ft upstream from State Highway 664A (upper bridge), and 1.6 mi southeast of Bowling Green.

DRAINAGE AREA.--614 mi².

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 62.43 ft, Sept. 15, 16, 2001; minimum, 48.01 ft, May 20, 21, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 59.37 ft, July 2; minimum, 48.19 ft, May 18, 19.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54.59	49.56	48.76	48.55	48.68	49.68	48.56	48.49	48.40	56.73	52.07	---
2	53.98	49.52	48.75	48.57	48.68	49.62	48.54	48.46	48.66	59.02	52.07	---
3	53.51	49.47	48.75	48.70	48.66	49.54	48.60	48.45	48.55	59.14	52.38	---
4	53.02	49.44	48.73	48.77	48.65	49.47	48.71	48.41	48.41	57.74	52.24	---
5	52.49	49.39	48.71	48.76	48.62	49.39	48.68	48.39	48.34	55.54	51.99	---
6	52.03	49.33	48.73	48.83	48.63	49.32	48.61	48.37	48.31	54.19	51.79	53.41
7	51.79	49.25	48.75	48.78	48.67	49.28	48.55	48.36	48.49	53.27	51.61	53.05
8	51.73	49.23	48.82	48.73	48.86	49.24	48.50	48.35	49.03	52.59	51.75	52.77
9	51.62	49.21	48.85	48.68	48.82	49.20	48.45	48.32	49.30	52.22	51.48	52.54
10	51.46	49.20	48.82	48.66	48.78	49.16	48.40	48.30	48.92	52.17	51.13	52.39
11	51.26	49.16	48.79	48.63	48.84	49.13	48.37	48.24	48.75	52.26	50.87	53.67
12	50.99	49.11	48.97	48.62	48.87	49.10	48.39	48.21	48.94	52.87	50.73	53.35
13	50.75	49.08	48.85	48.63	48.87	49.07	49.02	48.20	48.93	53.44	50.72	52.75
14	50.51	49.08	48.73	48.67	48.88	48.99	49.08	48.21	48.98	54.17	50.46	52.49
15	50.41	49.09	48.70	49.19	48.90	48.98	48.90	48.21	49.49	53.95	50.36	53.00
16	50.33	49.07	48.66	49.29	48.92	48.95	48.88	48.20	49.28	53.29	50.51	53.52
17	50.25	49.05	48.63	49.13	48.89	48.94	48.81	48.21	49.13	53.10	50.56	53.70
18	50.20	49.03	48.63	49.00	48.80	48.90	48.76	48.21	49.11	52.42	---	53.55
19	50.11	49.01	48.62	48.92	48.76	48.79	48.70	48.34	49.23	52.09	---	53.23
20	50.03	49.00	48.60	48.87	48.71	48.73	48.63	48.61	49.59	51.94	---	52.99
21	50.05	48.99	48.57	48.86	48.70	48.68	48.58	48.56	50.57	52.01	---	52.80
22	50.22	48.96	48.55	48.84	48.94	48.67	48.65	48.43	51.14	51.64	---	52.73
23	50.13	48.95	48.53	48.83	50.13	48.63	48.67	48.34	50.72	51.35	---	52.67
24	50.18	48.94	48.54	48.80	50.50	48.63	48.65	48.28	51.11	51.11	---	53.21
25	50.09	48.90	48.54	48.77	50.23	48.66	48.63	48.24	53.47	51.07	---	55.70
26	50.07	48.87	48.58	48.79	50.01	48.64	48.60	48.21	55.45	52.37	---	55.32
27	49.98	48.84	48.59	48.81	49.86	48.72	48.60	48.21	57.33	52.80	---	54.54
28	49.90	48.81	48.58	48.77	49.74	48.69	48.55	48.21	55.48	52.35	---	53.79
29	49.84	48.79	48.57	48.71	---	48.67	48.51	48.21	56.55	52.09	---	53.22
30	49.72	48.79	48.56	48.69	---	48.63	48.49	48.33	55.31	53.24	---	52.85
31	49.63	---	48.56	48.68	---	48.58	---	48.33	---	52.46	---	---
MEAN	51.00	49.10	48.68	48.79	49.06	48.99	48.64	48.32	50.50	53.38	51.34	53.33
MAX	54.59	49.56	48.97	49.29	50.50	49.68	49.08	48.61	57.33	59.14	52.38	55.70
MIN	49.63	48.79	48.53	48.55	48.62	48.58	48.37	48.20	48.31	51.07	50.36	52.39

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV 29...	1025	3.19	26	8.2	8.1	401	19.1	E.50	<.01	.940	<.01	.750	E.74
JAN 29...	1034	3.46	45	7.6	7.8	447	21.2	1.0	.01	.510	<.01	.950	1.00
MAR 27...	1047	3.40	39	6.6	8.8	454	22.2	.80	.01	.580	<.01	.810	.87
MAY 15...	1102	2.97	9.8	7.0	7.4	501	24.8	.90	<.01	.850	<.01	.790	.87
JUL 17...	1100	7.53	402	5.3	6.4	348	28.0	1.0	.04	.300	.01	.830	.89
SEP 04...	1051	9.10	531	6.1	6.6	196	26.0	1.1	.02	.350	.02	.660	.91

Remark codes used in this report:

< -- Less than

E -- Estimated value

PEACE RIVER BASIN

02295637 PEACE RIVER AT ZOLFO SPRINGS, FL

LOCATION.--Lat 27°30'15", long 81°48'04" (1927 North American datum), in SE¼ sec.22, T.34 S., R.25 E., Hardee County, Hydrologic Unit 03100101, near left edge of water on upstream side of bridge on U. S. Highway 17, 0.8 mi north of Zolfo Springs, and 69 mi upstream from mouth.

DRAINAGE AREA.--826 mi².

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

REVISED RECORDS.--WSP 1905: Drainage area.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1540	200	84	62	86	255	64	51	36	2230	874	2070
2	1360	189	82	62	86	243	62	49	50	2940	853	1620
3	1200	184	82	79	83	224	79	47	53	3750	1040	1290
4	1050	179	82	91	80	206	110	44	41	3730	1050	1520
5	908	173	79	87	77	191	94	41	34	2960	1010	1600
6	771	163	86	87	75	177	80	39	36	2230	891	2010
7	689	151	91	83	82	169	70	37	41	1860	775	1680
8	656	145	92	77	107	163	63	36	78	1430	825	1360
9	627	142	97	72	107	155	58	34	120	1130	787	1150
10	583	139	95	69	99	150	52	32	95	1000	681	1040
11	539	133	90	66	103	145	46	28	72	982	583	1230
12	483	127	97	64	108	139	47	23	117	1230	527	1420
13	433	120	103	63	106	137	142	20	115	1660	509	1230
14	389	120	85	68	109	127	173	19	112	1720	470	1180
15	361	122	81	167	109	121	128	17	201	1580	438	1170
16	343	119	77	182	110	118	114	16	202	1350	461	1210
17	315	114	74	145	105	114	102	19	225	1330	448	1240
18	301	110	71	122	96	110	93	25	244	1280	795	1230
19	286	108	e68	107	90	96	86	39	292	1020	803	1160
20	273	110	68	98	85	84	75	56	394	849	654	1140
21	271	111	63	94	82	75	66	61	576	917	568	1110
22	363	106	62	93	262	73	67	47	824	788	661	1010
23	343	104	61	95	613	72	74	39	698	686	632	981
24	340	105	59	92	676	71	72	37	704	601	554	970
25	318	98	59	88	475	72	70	33	1560	646	506	1740
26	302	94	63	90	358	70	67	31	1820	915	462	2030
27	275	91	67	98	309	76	68	31	2770	1080	443	1760
28	252	88	69	95	271	76	63	32	2830	1070	544	1470
29	240	86	66	88	---	73	56	30	2430	901	648	1250
30	221	85	63	87	---	73	52	34	2400	1080	876	1120
31	210	---	63	85	---	67	---	37	---	1060	1730	---
TOTAL	16242	3816	2379	2856	4949	3922	2393	1084	19170	46005	22098	41061
MEAN	524	127	76.7	92.1	177	127	79.8	35.0	639	1484	713	1369
MAX	1540	200	103	182	676	255	173	61	2830	3750	1730	2070
MIN	210	85	59	62	75	67	46	16	34	601	438	970
CFSM	0.63	0.15	0.09	0.11	0.21	0.15	0.10	0.04	0.77	1.80	0.86	1.66
IN.	0.73	0.17	0.11	0.13	0.22	0.18	0.11	0.05	0.86	2.07	1.00	1.85

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2002, BY WATER YEAR (WY)

MEAN	797	362	324	414	483	551	401	248	579	884	1040	1308
MAX	3016	1536	1917	2243	2716	3780	1589	2035	3819	4049	3623	5513
(WY)	1954	1954	1998	1998	1998	1998	1959	1957	1934	1945	1960	1960
MIN	72.4	17.9	24.5	29.7	16.8	19.5	19.0	9.38	20.2	69.1	163	209
(WY)	2001	2001	2001	2001	2001	2001	2000	2000	2000	1981	1950	1984

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1934 - 2002

ANNUAL TOTAL	142315.3	165975	
ANNUAL MEAN	390	455	616
HIGHEST ANNUAL MEAN			1605
LOWEST ANNUAL MEAN			179
HIGHEST DAILY MEAN	5900	Sep 16	19700
LOWEST DAILY MEAN	3.6	May 20	3.6
ANNUAL SEVEN-DAY MINIMUM	4.5	May 14	4.5
MAXIMUM PEAK FLOW			3930
MAXIMUM PEAK STAGE			16.31
ANNUAL RUNOFF (CFSM)	0.47		0.55
ANNUAL RUNOFF (INCHES)	6.41		7.47
10 PERCENT EXCEEDS	1190	1260	1420
50 PERCENT EXCEEDS	73	120	315
90 PERCENT EXCEEDS	13	51	95

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02295637 PEACE RIVER AT ZOLFO SPRINGS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.75	5.57	4.48	4.24	4.55	6.00	4.20	4.01	3.75	13.54	9.35	13.20
2	11.18	5.49	4.46	4.24	4.55	5.91	4.18	3.98	3.97	14.87	9.25	11.92
3	10.60	5.44	4.46	4.46	4.51	5.77	4.38	3.96	4.02	16.11	10.05	10.80
4	10.05	5.40	4.46	4.60	4.47	5.63	4.74	3.90	3.84	16.08	10.08	11.81
5	9.46	5.35	4.44	4.56	4.43	5.50	4.57	3.86	3.73	14.91	9.88	11.87
6	8.87	5.26	4.51	4.55	4.42	5.38	4.40	3.82	3.76	13.52	9.36	13.05
7	8.49	5.15	4.58	4.51	4.50	5.31	4.28	3.80	3.84	12.68	8.81	12.12
8	8.33	5.10	4.58	4.43	4.78	5.26	4.18	3.77	4.37	11.59	9.03	11.03
9	8.19	5.07	4.65	4.37	4.78	5.19	4.12	3.73	4.85	10.64	8.84	10.26
10	7.97	5.05	4.61	4.34	4.69	5.14	4.03	3.69	4.59	10.17	8.31	9.78
11	7.74	4.99	4.57	4.30	4.74	5.09	3.94	3.63	4.31	10.09	7.78	10.55
12	7.44	4.93	4.64	4.27	4.80	5.04	3.94	3.52	4.83	10.95	7.45	11.27
13	7.15	4.86	4.72	4.26	4.77	5.01	5.05	3.48	4.82	12.19	7.33	10.58
14	6.89	4.86	4.51	4.32	4.80	4.92	5.35	3.45	4.79	12.34	7.08	10.38
15	6.71	4.88	4.47	5.35	4.81	4.86	4.93	3.41	5.60	12.00	6.88	10.34
16	6.60	4.85	4.42	5.50	4.81	4.83	4.79	3.40	5.62	11.37	6.99	10.48
17	6.41	4.80	4.38	5.17	4.76	4.79	4.66	3.44	5.80	11.27	6.90	10.62
18	6.32	4.76	4.34	4.94	4.67	4.75	4.55	3.53	5.95	11.12	8.72	10.56
19	6.22	4.75	---	4.78	4.59	4.59	4.47	3.77	6.30	10.12	8.76	10.28
20	6.13	4.77	4.30	4.68	4.53	4.46	4.34	4.03	6.95	9.41	7.99	10.21
21	6.11	4.77	4.25	4.64	4.50	4.35	4.23	4.09	7.95	9.69	7.52	10.09
22	6.72	4.72	4.23	4.63	5.96	4.31	4.23	3.89	9.14	9.11	8.01	9.67
23	6.60	4.70	4.21	4.65	8.14	4.30	4.33	3.78	8.57	8.62	7.86	9.54
24	6.58	4.71	4.18	4.62	8.42	4.29	4.30	3.73	8.55	8.18	7.43	9.49
25	6.44	4.63	4.18	4.57	7.38	4.30	4.28	3.67	11.80	8.39	7.15	12.25
26	6.33	4.59	4.25	4.59	6.69	4.28	4.23	3.64	12.56	9.60	6.90	13.11
27	6.14	4.56	4.30	4.69	6.38	4.35	4.26	3.65	14.57	10.30	6.79	12.37
28	5.98	4.53	4.32	4.65	6.12	4.35	4.18	3.65	14.69	10.23	7.37	11.43
29	5.89	4.50	4.29	4.57	---	4.32	4.08	3.64	13.93	9.51	7.94	10.65
30	5.74	4.50	4.25	4.55	---	4.32	4.03	3.71	13.88	10.24	9.05	10.12
31	5.66	---	4.26	4.53	---	4.24	---	3.75	---	10.16	12.26	---
MEAN	7.44	4.92	---	4.60	5.23	4.87	4.38	3.72	7.04	11.26	8.29	10.99
MAX	11.75	5.57	---	5.50	8.42	6.00	5.35	4.09	14.69	16.11	12.26	13.20
MIN	5.66	4.50	---	4.24	4.42	4.24	3.94	3.40	3.73	8.18	6.79	9.49

PEACE RIVER BASIN

02295798 PEACE RIVER AT PEACE RIVER RANCH NEAR BUCHANAN, FL

LOCATION.--Lat 27°24'57", long 81°50'52" (1927 North American datum), in SE $\frac{1}{4}$ sec.19, T.35 S., R.25 E., Hardee County, Hydrologic Unit 03100101, on east bank, on downstream side of steel bridge at the Peace River Ranch, 0.9 mi west of Peace River Ranch headquarters, 3.6 mi west of Buchanan, and 56.2 mi upstream from mouth.

DRAINAGE AREA.--890 mi².

PERIOD OF RECORD.--December 2001 to September 2002 (gage heights only).

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

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 25.39 ft, July 5; minimum, 13.47 ft, May 16, 17.

GAGE HEIGHT, FEET, PERIOD DECEMBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	14.16	14.34	15.99	14.03	13.91	13.67	23.63	19.33	22.89
2	---	---	---	14.16	14.34	15.90	14.00	13.88	13.67	23.85	19.30	22.82
3	---	---	---	14.23	14.34	15.76	13.99	13.86	13.82	24.56	20.34	21.78
4	---	---	---	14.37	14.28	15.55	14.38	13.83	13.75	25.17	20.50	21.02
5	---	---	---	14.51	14.25	15.41	14.37	13.79	13.66	25.34	20.22	21.38
6	---	---	---	14.48	14.24	15.31	14.24	13.77	13.65	25.05	19.72	21.72
7	---	---	14.42	14.45	14.27	15.21	14.12	13.75	13.75	24.28	19.11	22.39
8	---	---	14.44	14.37	14.44	15.16	14.04	13.73	14.13	23.18	19.05	22.05
9	---	---	14.47	14.32	14.59	15.08	13.99	13.70	14.38	21.88	19.11	21.04
10	---	---	14.49	14.33	14.52	15.00	13.93	13.67	14.48	20.80	18.62	20.06
11	---	---	14.46	14.31	14.50	14.94	13.88	13.65	14.23	20.22	18.02	19.96
12	---	---	14.43	14.27	14.56	14.89	13.85	13.60	14.26	20.49	17.53	20.71
13	---	---	14.58	14.26	14.55	14.84	14.31	13.55	14.66	21.80	17.27	20.83
14	---	---	14.45	14.25	14.53	14.78	15.08	13.52	14.72	22.61	17.06	20.28
15	---	---	14.35	14.83	14.59	14.69	14.93	13.50	14.92	22.48	16.80	20.08
16	---	---	14.33	15.47	14.56	14.66	14.63	13.48	15.42	21.86	16.74	19.97
17	---	---	14.29	15.19	14.52	14.61	14.52	13.48	15.36	21.09	16.74	20.01
18	---	---	14.25	14.92	14.46	14.56	14.39	13.50	15.85	20.84	17.41	20.03
19	---	---	14.24	14.74	14.39	14.48	14.31	13.62	16.24	20.32	18.35	19.89
20	---	---	14.22	14.62	14.34	14.34	14.22	13.85	17.15	19.55	17.99	19.71
21	---	---	14.19	14.53	14.29	14.25	14.12	13.94	17.51	19.17	17.39	19.80
22	---	---	14.18	14.50	15.16	14.17	14.05	13.90	18.78	19.07	17.45	19.52
23	---	---	14.17	14.50	18.10	14.15	14.10	13.76	19.24	18.58	17.66	19.23
24	---	---	14.15	14.48	18.77	14.14	14.12	13.67	18.72	18.10	17.28	19.54
25	---	---	14.10	14.42	18.00	14.13	14.09	13.62	20.39	17.87	16.99	20.01
26	---	---	14.11	14.40	16.99	14.12	14.07	13.60	21.62	18.56	16.80	21.61
27	---	---	14.16	14.45	16.47	14.12	14.06	13.58	22.38	19.76	16.68	22.03
28	---	---	14.22	14.47	16.14	14.15	14.07	13.58	23.52	19.86	16.88	21.53
29	---	---	14.24	14.41	---	14.11	13.99	13.56	23.94	19.46	17.58	20.79
30	---	---	14.18	14.37	---	14.12	13.94	13.57	23.70	19.36	18.26	20.12
31	---	---	14.16	14.35	---	14.09	---	13.68	---	19.76	21.56	---
MEAN	---	---	---	14.49	15.09	14.73	14.19	13.68	16.72	21.24	18.19	20.76
MAX	---	---	---	15.47	18.77	15.99	15.08	13.94	23.94	25.34	21.56	22.89
MIN	---	---	---	14.16	14.24	14.09	13.85	13.48	13.65	17.87	16.68	19.23

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" (1927 North American datum), in SE $\frac{1}{4}$ sec.3, T.36 S., R.25 E., Hardee County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on U. S. Highway 17, 1.6 mi north of Gardner, and 4.9 mi upstream from mouth.

DRAINAGE AREA.--330 mi².

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 fair.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1240	205	33	16	34	227	13	3.8	10	1060	442	357
2	1090	185	32	17	32	195	12	3.6	11	1140	517	443
3	968	165	31	19	30	164	12	3.4	9.2	1200	566	611
4	814	150	30	20	28	134	13	3.3	7.6	1280	484	724
5	719	137	29	21	26	110	12	3.0	6.3	1410	405	836
6	635	130	28	25	24	92	10	2.9	5.8	1490	342	1580
7	555	125	28	24	24	79	9.2	2.7	5.7	1470	300	1770
8	482	118	27	24	30	71	8.5	2.6	8.5	1440	275	1440
9	415	109	27	24	34	65	7.9	2.5	11	1450	246	1030
10	361	100	28	29	36	58	7.5	2.4	9.8	1410	222	801
11	326	92	28	27	39	52	7.1	2.3	9.0	1320	192	989
12	297	85	27	27	40	47	7.4	2.2	11	1300	164	938
13	269	79	26	27	37	42	23	2.0	13	1440	141	756
14	245	73	25	28	35	37	29	1.9	12	1370	134	633
15	224	69	24	49	35	34	27	1.9	12	1220	116	572
16	207	67	23	72	34	31	22	1.8	14	1060	103	523
17	191	62	22	71	32	28	16	1.9	28	920	92	509
18	172	59	22	71	29	25	13	1.8	96	832	87	485
19	158	55	22	69	27	23	11	3.8	89	753	88	436
20	147	52	21	67	25	20	9.8	8.3	124	669	97	375
21	149	47	20	64	23	19	8.6	8.5	251	586	105	324
22	165	46	19	61	33	17	7.6	6.3	485	517	105	293
23	180	45	18	58	105	15	6.8	5.5	383	493	108	275
24	188	43	18	51	166	13	6.3	4.9	404	425	112	413
25	191	41	18	46	207	12	5.7	4.5	674	394	107	418
26	223	40	18	45	240	11	5.2	4.3	821	394	97	448
27	267	39	18	42	256	11	5.1	4.1	1120	450	90	558
28	281	37	17	40	249	11	4.9	3.7	1070	430	95	609
29	279	36	17	37	---	11	4.5	3.5	1020	465	113	605
30	256	34	17	36	---	14	4.1	3.2	959	484	166	570
31	230	---	17	35	---	14	---	3.4	---	445	346	---
TOTAL	11924	2525	730	1242	1910	1682	329.2	110.0	7679.9	29317	6457	20321
MEAN	385	84.2	23.5	40.1	68.2	54.3	11.0	3.55	256	946	208	677
MAX	1240	205	33	72	256	227	29	8.5	1120	1490	566	1770
MIN	147	34	17	16	23	11	4.1	1.8	5.7	394	87	275
CFSM	1.17	0.26	0.07	0.12	0.21	0.16	0.03	0.01	0.78	2.87	0.63	2.05
IN.	1.34	0.28	0.08	0.14	0.22	0.19	0.04	0.01	0.87	3.30	0.73	2.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

MEAN	375	124	89.1	124	164	219	121	41.9	249	427	476	679
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	4.04	3.39	4.81	4.09	2.10	0.81	0.57	2.18	4.85	19.1	27.5
(WY)	1985	2001	1982	1956	1956	1956	1975	1975	2000	1981	1993	1996

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1951 - 2002

ANNUAL TOTAL	122094.31	84229.1	
ANNUAL MEAN	335	231	258
HIGHEST ANNUAL MEAN			694
LOWEST ANNUAL MEAN			64.5
HIGHEST DAILY MEAN	7000	Sep 15	1770
LOWEST DAILY MEAN	0.60	May 16	1.8
ANNUAL SEVEN-DAY MINIMUM	0.86	May 11	1.9
MAXIMUM PEAK FLOW			1830
MAXIMUM PEAK STAGE			12.93
ANNUAL RUNOFF (CFSM)	1.01		0.70
ANNUAL RUNOFF (INCHES)	13.76		9.49
10 PERCENT EXCEEDS	989		754
50 PERCENT EXCEEDS	24		49
90 PERCENT EXCEEDS	2.6		6.1
			5.3

PEACE RIVER BASIN

02296525 PEACE RIVER NEAR GARDNER, FL

LOCATION.--Lat 27°20'37", long 81°49'33" (1927 North American datum), in SE $\frac{1}{4}$ sec.17, T.36 S., R.25 E., Hardee County, Hydrologic Unit 03100101, on east bank of river, 1,000 ft south of Gardner public boat ramp, 1.5 mi west of Gardner, and 49.5 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 2001 to current year (gage heights only). Records of gage heights prior to October 2001 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 RECORDED.--Maximum gage height, 34.01 ft, Sept. 14, 2001; minimum, 12.96 ft, May 16, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 28.36 ft, July 6; minimum, 12.98 ft, May 16.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.13	15.92	---	13.84	14.06	16.47	13.73	13.38	13.21	25.81	20.00	23.36
2	23.57	15.77	---	13.85	14.04	16.27	13.69	13.36	13.22	26.10	20.50	23.89
3	---	15.62	---	13.88	14.02	16.03	13.69	13.33	13.31	26.78	22.26	23.46
4	---	15.52	14.06	14.00	13.98	15.74	13.89	13.32	13.31	27.49	22.18	22.66
5	---	15.44	14.05	14.12	13.94	15.50	13.99	13.28	13.21	28.15	21.57	22.90
6	---	15.35	14.02	14.14	13.91	15.32	13.85	13.25	13.20	28.30	20.71	24.83
7	---	15.26	14.07	14.14	13.94	15.18	13.72	13.23	13.29	27.81	19.84	25.69
8	---	15.17	14.10	14.09	14.07	15.09	13.64	13.20	13.57	26.79	19.51	25.42
9	---	15.09	14.12	14.05	14.24	14.99	13.58	13.18	13.79	25.54	19.47	23.93
10	---	15.02	14.16	14.07	14.24	14.89	13.53	13.15	13.92	24.36	18.99	22.29
11	---	14.96	14.14	14.07	14.23	14.79	13.47	13.13	13.76	23.53	18.23	22.90
12	---	14.88	14.10	14.03	14.27	14.72	13.47	13.09	13.72	23.60	17.56	23.05
13	---	14.81	14.16	14.00	14.25	14.64	13.87	13.05	14.11	25.06	17.11	22.76
14	---	14.75	14.15	14.00	14.22	14.57	14.61	13.02	14.21	25.74	16.87	21.86
15	---	14.73	14.03	14.40	14.24	14.47	14.58	12.99	14.22	25.50	16.54	21.38
16	---	14.70	13.99	15.18	14.22	14.41	14.28	12.97	14.70	24.64	16.36	20.88
17	---	14.66	13.96	15.06	14.19	14.34	14.10	12.98	14.95	23.52	16.33	20.64
18	---	14.60	13.94	14.83	14.13	14.28	13.95	12.98	15.97	22.66	16.57	20.53
19	---	14.56	13.92	14.67	14.05	14.21	13.85	13.15	16.07	22.00	17.60	20.29
20	---	---	13.90	14.54	13.99	14.08	13.77	13.31	17.03	21.06	17.49	19.92
21	---	---	13.87	14.46	13.93	13.98	13.66	13.44	18.23	20.28	17.17	19.73
22	---	---	13.84	14.40	14.39	13.88	13.58	13.42	20.84	20.67	17.20	19.53
23	---	---	13.83	14.37	17.37	13.84	13.58	13.29	20.78	20.02	17.32	19.49
24	---	---	13.82	14.32	18.63	13.81	13.60	13.20	19.83	19.06	17.00	20.05
25	---	---	13.79	14.24	18.40	13.78	13.56	13.13	21.24	18.43	16.66	20.19
26	16.53	---	13.80	14.20	17.48	13.77	13.55	13.10	22.98	18.86	16.46	21.56
27	16.57	---	13.83	14.20	16.99	13.75	13.52	13.07	24.87	21.09	16.39	22.74
28	16.50	---	13.87	14.21	16.68	13.78	13.52	13.08	25.37	21.19	16.53	22.72
29	16.41	---	13.89	14.16	---	13.75	13.47	13.08	25.88	20.56	17.28	22.03
30	16.27	---	13.87	14.10	---	13.76	13.42	13.07	25.79	20.17	17.92	21.17
31	16.08	---	13.85	14.08	---	13.78	---	13.16	---	20.24	21.32	---
MEAN	---	---	---	14.25	14.86	14.58	13.76	13.17	16.95	23.39	18.29	22.06
MAX	---	---	---	15.18	18.63	16.47	14.61	13.44	25.88	28.30	22.26	25.69
MIN	---	---	---	13.84	13.91	13.75	13.42	12.97	13.20	18.43	16.33	19.49

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL

LOCATION.--Lat 27°13'19", long 81°52'34" (1927 North American datum), in SE $\frac{1}{4}$ 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.

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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3070	500	124	115	155	680	90	63	46	3950	1670	2350
2	2890	463	119	115	152	631	83	59	50	4120	1660	2750
3	2630	425	117	119	148	578	92	56	51	4220	2160	2850
4	2310	398	115	126	144	512	98	53	64	4310	2410	2640
5	2000	381	112	142	136	441	130	50	61	4490	2290	2500
6	1700	357	110	158	131	389	115	46	50	4690	2040	3060
7	1440	333	111	157	137	352	97	43	72	4690	1760	3400
8	1250	313	119	151	165	328	84	40	106	4440	1590	3540
9	1120	295	120	145	184	304	74	39	199	3990	1540	3280
10	1030	280	128	145	193	278	68	35	191	3470	1460	2700
11	956	267	133	148	191	253	63	32	183	3060	1240	2710
12	885	251	123	142	190	237	68	30	171	2920	1030	2840
13	808	235	122	135	191	222	176	27	263	3350	888	2760
14	735	222	131	135	188	208	258	23	303	3660	812	2530
15	673	214	120	239	188	195	315	20	304	3660	739	2360
16	627	210	114	354	186	183	258	21	367	3430	675	2140
17	594	202	112	381	181	172	208	24	468	3080	656	1970
18	553	191	111	327	170	161	174	22	744	2690	645	1890
19	527	182	111	283	157	152	147	39	748	2430	871	1820
20	499	177	112	255	145	137	131	60	915	2170	949	1710
21	494	174	112	233	136	121	114	78	1410	1930	983	1620
22	534	165	110	219	226	109	99	88	2000	2160	973	1570
23	616	160	111	211	819	100	87	76	2270	2070	951	1560
24	639	156	112	203	1220	96	90	59	2060	1710	871	1690
25	631	153	112	191	1250	93	89	48	2170	1370	768	1740
26	652	147	112	181	1020	90	85	41	2610	1260	697	1920
27	654	139	113	176	835	88	85	37	3350	1750	677	2280
28	629	134	118	179	739	87	80	34	3670	2070	738	2460
29	605	132	122	175	---	89	79	32	3830	1960	961	2370
30	577	128	121	165	---	85	70	32	3950	1800	1040	2140
31	539	---	116	159	---	96	---	34	---	1720	1600	---
TOTAL	32867	7384	3623	5864	9577	7467	3607	1341	32676	92620	37344	71150
MEAN	1060	246	117	189	342	241	120	43.3	1089	2988	1205	2372
MAX	3070	500	133	381	1250	680	315	88	3950	4690	2410	3540
MIN	494	128	110	115	131	85	63	20	46	1260	645	1560
MED	654	212	115	165	185	183	91	39	335	3060	973	2370
CFSM	0.78	0.18	0.09	0.14	0.25	0.18	0.09	0.03	0.80	2.19	0.88	1.73
IN.	0.89	0.20	0.10	0.16	0.26	0.20	0.10	0.04	0.89	2.52	1.02	1.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2002, BY WATER YEAR (WY)

MEAN	1465	547	456	591	738	853	592	311	1007	1691	1900	2580
MAX	6954	3271	3780	3652	5109	6410	2449	2597	6107	6604	7439	9876
(WY)	1954	1998	1998	1998	1998	1998	1958	1957	1982	1945	1960	1933
MIN	146	40.5	50.1	73.9	39.5	46.2	31.1	9.53	20.0	93.1	324	328
(WY)	1985	2001	2001	2001	2001	2001	2000	2000	2000	1981	1993	1984

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1932 - 2002

ANNUAL TOTAL	379027.1	305520		
ANNUAL MEAN	1038	837	1062	1960
HIGHEST ANNUAL MEAN			2571	1981
LOWEST ANNUAL MEAN			298	1981
HIGHEST DAILY MEAN	20700	Sep 16	4690	Jul 6
LOWEST DAILY MEAN	7.2	May 20	20	May 15
ANNUAL SEVEN-DAY MINIMUM	8.7	May 15	24	May 12
MAXIMUM PEAK FLOW			4790	Jul 6
MAXIMUM PEAK STAGE			12.06	Jul 6
ANNUAL RUNOFF (CFSM)	0.76		0.61	0.78
ANNUAL RUNOFF (INCHES)	10.31		8.31	10.56
10 PERCENT EXCEEDS	2720		2620	2640
50 PERCENT EXCEEDS	139		226	449
90 PERCENT EXCEEDS	25		68	114

PEACE RIVER BASIN

02296750 PEACE RIVER AT ALCADIA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.77	3.23	1.71	1.58	1.80	3.77	1.54	1.37	1.24	11.09	6.78	8.30
2	9.46	3.11	1.69	1.58	1.79	3.60	1.50	1.34	1.28	11.32	6.75	9.13
3	8.97	2.99	1.67	1.60	1.77	3.41	1.55	1.31	1.29	11.44	7.90	9.33
4	8.32	2.90	1.65	1.64	1.74	3.18	1.60	1.29	1.39	11.54	8.46	8.92
5	7.62	2.84	1.64	1.73	1.70	2.96	1.79	1.27	1.37	11.75	8.20	8.63
6	6.91	2.76	1.62	1.81	1.67	2.80	1.70	1.23	1.27	11.96	7.63	9.69
7	6.26	2.68	1.62	1.81	1.71	2.69	1.59	1.20	1.45	11.96	6.99	10.29
8	5.75	2.60	1.67	1.78	1.85	2.62	1.50	1.18	1.67	11.69	6.58	10.50
9	5.40	2.53	1.67	1.75	1.94	2.53	1.44	1.16	2.17	11.14	6.45	10.08
10	5.12	2.47	1.72	1.75	1.98	2.44	1.39	1.12	2.13	10.38	6.26	9.03
11	4.86	2.42	1.74	1.76	1.97	2.36	1.34	1.09	2.10	9.70	5.67	9.05
12	4.64	2.35	1.68	1.73	1.97	2.29	1.38	1.07	2.04	9.46	5.07	9.30
13	4.38	2.28	1.67	1.69	1.97	2.23	2.02	1.04	2.43	10.20	4.60	9.16
14	4.13	2.23	1.72	1.69	1.96	2.17	2.37	0.98	2.59	10.69	4.35	8.71
15	3.90	2.20	1.65	2.18	1.96	2.11	2.59	0.94	2.59	10.68	4.10	8.33
16	3.73	2.17	1.61	2.60	1.95	2.05	2.37	0.96	2.81	10.33	3.88	7.79
17	3.61	2.13	1.60	2.70	1.93	2.01	2.17	0.99	3.14	9.73	3.81	7.35
18	3.46	2.08	1.60	2.51	1.87	1.95	2.01	0.96	4.12	9.02	3.77	7.14
19	3.35	2.04	1.59	2.35	1.81	1.90	1.89	1.15	4.13	8.50	4.55	6.96
20	3.25	2.01	1.60	2.24	1.75	1.83	1.80	1.36	4.68	7.93	4.80	6.69
21	3.24	1.99	1.59	2.15	1.70	1.74	1.71	1.50	6.14	7.39	4.91	6.43
22	3.38	1.95	1.58	2.10	2.09	1.67	1.61	1.57	7.54	7.91	4.88	6.31
23	3.67	1.93	1.58	2.06	4.19	1.61	1.54	1.48	8.16	7.70	4.81	6.28
24	3.76	1.90	1.59	2.03	5.48	1.58	1.55	1.36	7.68	6.87	4.55	6.62
25	3.73	1.88	1.59	1.97	5.56	1.57	1.55	1.26	7.94	6.01	4.20	6.76
26	3.80	1.85	1.59	1.93	4.87	1.55	1.52	1.19	8.85	5.73	3.95	7.22
27	3.80	1.81	1.58	1.90	4.29	1.53	1.53	1.15	10.19	6.94	3.88	8.13
28	3.71	1.78	1.61	1.92	3.97	1.52	1.50	1.12	10.70	7.71	4.08	8.56
29	3.62	1.76	1.63	1.90	---	1.54	1.49	1.10	10.93	7.46	4.79	8.36
30	3.52	1.74	1.62	1.85	---	1.51	1.42	1.10	11.09	7.09	5.00	7.79
31	3.36	---	1.59	1.82	---	1.58	---	1.11	---	6.90	6.52	---
MEAN	4.92	2.29	1.63	1.94	2.47	2.20	1.70	1.19	4.50	9.30	5.42	8.23
MAX	9.77	3.23	1.74	2.70	5.56	3.77	2.59	1.57	11.09	11.96	8.46	10.50
MIN	3.24	1.74	1.58	1.58	1.67	1.51	1.34	0.94	1.24	5.73	3.77	6.28

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST- CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
Date		SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS- (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	
OCT	09...	42.8	.081	1.3	1.5	.320	.020	.92	.944	1.08	32.5	--	--	--
NOV	15...	68.9	.053	--	1.2	.854	.009	--	.829	.91	--	<.002	<.004	<.002
JAN	17...	107	.023	.71	.85	1.33	.012	.71	.659	.78	--	<.006	<.006	<.004
FEB	14...	94.6	.026	--	.76	.724	.004	--	.794	.83	--	<.006	<.006	<.004
MAR	07...	87.8	E.009	--	.95	.916	.007	--	.617	.66	--	<.006	<.006	<.004
APR	15...	121	.045	--	.79	.922	.013	--	.733	.90	--	<.006	<.006	<.004
MAY	15...	114	<.015	--	.71	.071	.003	--	1.10	1.28	--	<.006	<.006	<.004
JUN	20...	106	.064	--	1.1	1.14	.022	--	.462	.65	--	--	--	--
AUG	19...	63.4	.035	--	1.1	.507	.010	--	.827	1.16	--	<.006	<.006	<.004
SEP	24...	32.9	.051	--	1.3	.362	.011	--	.605	.80	--	<.006	<.006	<.004

PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ- INON D10 SRG WAT FLT GF, REC PERCENT (UG/L) (91063)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)
OCT 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	<.005	<.007	<.010	<.002	E.039	<.020	<.005	<.018	<.003	<.006	115	<.005	<.005
JAN 17...	<.005	.019	<.010	<.002	E.006	<.020	<.005	<.018	<.003	E.002	118	.020	<.005
FEB 14...	<.005	.008	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	105	<.005	<.005
MAR 07...	<.005	.010	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	117	.008	<.005
APR 15...	<.005	.062	<.010	<.002	E.013	<.020	<.005	<.018	<.003	E.007	99.1	.016	<.005
MAY 15...	<.005	.011	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	113	<.005	<.005
JUN 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	<.005	E.006	<.010	<.002	E.037	<.020	<.005	<.018	<.003	<.006	128	<.005	<.005
SEP 24...	<.005	.011	<.010	<.002	E.028	<.020	<.005	<.018	<.003	E.003	112	.013	<.005
Date	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFO S WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (UG/L) (91065)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THON, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THON WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)
OCT 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	<.02	<.002	<.009	<.005	<.003	82.8	<.004	<.035	<.027	<.050	<.006	<.013	<.006
JAN 17...	<.02	<.002	<.009	<.005	<.003	93.5	<.004	<.035	<.027	<.050	<.006	<.013	<.006
FEB 14...	<.02	<.002	<.009	<.005	<.003	102	<.004	<.035	<.027	<.050	<.006	E.006	<.006
MAR 07...	<.02	<.002	<.009	<.005	<.003	104	<.004	<.035	<.027	<.050	<.006	<.013	<.006
APR 15...	<.02	<.002	<.009	<.005	<.003	93.6	<.004	<.035	<.027	<.050	<.006	E.005	<.006
MAY 15...	<.02	<.002	<.009	<.005	<.003	93.0	<.004	<.035	<.027	<.050	<.006	<.013	<.006
JUN 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	<.02	<.002	<.009	<.005	<.003	109	<.004	<.035	<.027	<.050	<.006	<.013	<.006
SEP 24...	<.02	<.002	<.009	<.005	<.003	103	<.004	<.035	<.027	<.050	<.006	E.005	E.005
Date	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THON, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)
OCT 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02
JAN 17...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
FEB 14...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
MAR 07...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
APR 15...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
MAY 15...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
JUN 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	M	<.004	<.010	<.011	<.02
SEP 24...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	M	<.004	<.010	<.011	<.02

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 09...	--	--	--	--	--	--	--	10
NOV 15...	E.008	<.02	<.034	<.02	<.005	<.002	<.009	6.0
JAN 17...	.122	<.02	<.034	<.02	<.005	<.002	<.009	5.0
FEB 14...	.015	<.02	<.034	<.02	<.005	<.002	<.009	1.0
MAR 07...	.049	<.02	<.034	<.02	<.005	<.002	<.009	6.0
APR 15...	.673	M	<.034	<.02	<.005	<.002	<.009	8.0
MAY 15...	.042	M	<.034	<.02	<.005	<.002	<.009	4.0
JUN 20...	--	--	--	--	--	--	--	8.0
AUG 19...	.018	<.02	<.034	<.02	<.005	<.002	<.009	16
SEP 24...	.018	<.02	<.034	<.02	<.005	<.002	<.009	12

Remark codes used in this report:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

PEACE RIVER BASIN

02297100 JOSHUA CREEK AT NOCATEE, FL

LOCATION.--Lat 27°09'59", long 81°52'47" (1927 North American datum), in SE $\frac{1}{4}$ 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.

WATER-DISCHARGE RECORDS

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

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	&296	&56	&21	18	23	61	22	19	53	536	279	146
2	&250	&54	&20	20	22	53	22	19	47	1010	256	151
3	&211	&51	&20	24	21	48	24	18	41	929	230	178
4	&179	50	&22	24	21	46	27	18	37	755	210	186
5	&151	54	&22	26	22	44	25	17	34	583	266	150
6	&133	&50	&19	26	21	43	24	16	32	498	225	161
7	&112	&46	20	26	21	41	22	17	55	452	275	191
8	&109	&44	22	25	24	40	20	17	100	510	398	205
9	&106	&42	&22	27	23	39	20	17	456	540	323	197
10	&96	&39	20	29	22	38	20	18	334	446	231	159
11	&86	&37	21	26	22	35	20	18	173	333	178	143
12	&77	&37	&21	24	21	34	23	17	117	292	167	194
13	&71	&37	&20	23	20	33	81	16	117	460	136	210
14	&67	&37	&19	24	20	33	66	18	112	571	114	211
15	&63	&38	&19	53	20	31	83	18	104	411	97	216
16	&62	&36	&18	58	19	31	65	18	99	320	83	189
17	&59	&35	&18	48	18	30	55	27	114	268	72	183
18	&52	&36	19	42	18	28	47	24	129	223	65	189
19	&50	&34	20	38	18	28	40	50	125	264	80	171
20	&52	&32	19	34	18	28	35	105	254	243	74	136
21	56	&32	19	32	17	27	32	68	509	313	81	112
22	97	&30	18	31	26	26	30	50	709	710	90	91
23	&151	&29	18	30	78	25	28	42	541	1020	98	77
24	&139	&28	18	30	93	25	27	37	474	817	105	79
25	112	&27	18	28	79	25	25	34	940	560	98	85
26	105	&26	18	27	71	30	24	31	770	491	83	97
27	&88	&26	19	25	63	27	23	30	594	407	75	118
28	&71	&25	20	24	65	25	21	30	687	329	99	126
29	&67	&22	19	24	---	25	20	29	565	314	132	123
30	&61	&21	18	25	---	24	20	29	502	478	138	109
31	&57	---	17	24	---	24	---	28	---	398	145	---
TOTAL	3286	1111	604	915	906	1047	991	895	8824	15481	4903	4583
MEAN	106	37.0	19.5	29.5	32.4	33.8	33.0	28.9	294	499	158	153
MAX	296	56	22	58	93	61	83	105	940	1020	398	216
MIN	50	21	17	18	17	24	20	16	32	223	65	77
CFSM	0.80	0.28	0.15	0.22	0.25	0.26	0.25	0.22	2.23	3.78	1.20	1.16
IN.	0.93	0.31	0.17	0.26	0.26	0.30	0.28	0.25	2.49	4.36	1.38	1.29
*PREC	1.66	0.22	0.43	1.83	3.42	0.41	3.97	1.98	11.83	9.50	5.65	2.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
MEAN	159	40.3	33.9	48.2	57.0	83.9	33.8	28.5	135	183	185	288
MAX	1067	234	405	284	484	439	201	250	1133	699	562	899
(WY)	1954	1969	1998	1998	1983	1998	1993	1958	1982	1974	1995	1994
MIN	4.56	3.53	1.78	1.95	2.99	0.92	0.60	0.70	0.52	2.16	7.16	18.1
(WY)	1962	1962	1956	1956	1956	1956	1956	1953	1956	1956	1956	1984

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1951 - 2002

ANNUAL TOTAL	45755.3	43546		
ANNUAL MEAN	125	119	106	
HIGHEST ANNUAL MEAN			231	1953
LOWEST ANNUAL MEAN			20.7	1956
HIGHEST DAILY MEAN	2900	Sep 15	1020	Jul 23
LOWEST DAILY MEAN	5.9	May 21	16	May 6
ANNUAL SEVEN-DAY MINIMUM	7.0	May 15	17	May 3
MAXIMUM PEAK FLOW			1150	Jul 2
MAXIMUM PEAK STAGE			13.63	Jul 2
ANNUAL RUNOFF (CFSM)	0.95		0.90	
ANNUAL RUNOFF (INCHES)	12.89		12.27	
10 PERCENT EXCEEDS	338		325	267
50 PERCENT EXCEEDS	28		42	27
90 PERCENT EXCEEDS	15		19	4.2

& Value was computed from affected unit values

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02297100 JOSHUA CREEK AT NOCATEE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2001 to September 2002.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the surface.
REMARKS.--Interruptions in record were due to malfunctions of the instruments. Specific conductance records good, temperature records excellent.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Maximum, 2,000 microsiemens, May 17; minimum, 220 microsiemens, July 23.

TEMPERATURE.--Maximum, 29.7°C, July 18; minimum, 10.0°C, Jan. 5.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), PERIOD DECEMBER 2001 TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	1180	1090	1100	1070	1080	1070
2	---	---	---	---	---	---	1200	1090	1090	1080	1080	1070
3	---	---	---	---	---	---	1140	1060	1100	1080	1070	1040
4	---	---	---	---	---	---	1130	1090	1150	1080	1040	1010
5	---	---	---	---	---	---	1180	1120	1140	1080	1140	1020
6	---	---	---	---	---	---	1140	1080	1180	1110	1130	1100
7	---	---	---	---	---	---	1130	1070	1130	1020	1120	1100
8	---	---	---	---	---	---	1180	1110	1110	1020	1130	1110
9	---	---	---	---	---	---	1200	1170	1120	1000	1130	1100
10	---	---	---	---	---	---	1230	1170	1090	1060	1180	1080
11	---	---	---	---	---	---	1250	1190	1060	1040	1220	1140
12	---	---	---	---	---	---	1250	1210	1060	1040	1210	1150
13	---	---	---	---	---	---	1220	1130	1070	1050	1230	1160
14	---	---	---	---	---	---	1130	1030	1080	1050	1240	1150
15	---	---	---	---	---	---	1050	915	1090	1060	1240	1220
16	---	---	---	---	---	---	989	959	1100	1070	1270	1220
17	---	---	---	---	---	---	1000	976	1110	1060	1260	1230
18	---	---	---	---	---	---	1010	995	1180	1080	1250	1210
19	---	---	---	---	1040	1020	1000	993	1190	1080	1260	1220
20	---	---	---	---	1030	1010	1000	992	1220	1100	1280	1230
21	---	---	---	---	1100	1010	996	985	1220	1150	1280	1230
22	---	---	---	---	1100	989	1000	987	1210	953	1260	1230
23	---	---	---	---	1100	967	1010	998	1040	952	1300	1240
24	---	---	---	---	1100	1080	1040	1010	1020	996	1320	1240
25	---	---	---	---	1100	1060	1060	1000	1010	982	1370	1200
26	---	---	---	---	1100	1080	1060	1030	1000	967	1220	1130
27	---	---	---	---	1130	1080	1060	1040	978	966	1270	1220
28	---	---	---	---	1180	1130	1060	1040	1070	970	1270	1230
29	---	---	---	---	1170	1120	1090	1050	---	---	1300	1250
30	---	---	---	---	1140	1100	1090	1060	---	---	1300	1240
31	---	---	---	---	1110	1090	1080	1050	---	---	1480	1290
MONTH	---	---	---	---	---	---	1250	915	1220	952	1480	1010

PEACE RIVER BASIN

02297100 JOSHUA CREEK AT NOCATEE, FL--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), PERIOD DECEMBER 2001 TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1510	1410	1420	1340	1910	1240	552	378	532	475	601	585
2	1510	1360	1480	1330	1800	1440	378	333	555	525	627	597
3	1510	1260	1490	1370	1700	1560	429	376	570	555	692	571
4	1430	1280	1540	1300	1660	1560	473	429	575	522	638	569
5	1340	1270	1520	1380	1680	1620	503	473	536	481	686	638
6	1390	1330	1480	1430	1730	1550	543	502	574	525	729	646
7	1410	1390	1530	1400	1920	1290	554	503	548	480	646	599
8	1400	1370	1460	1380	1910	546	537	491	480	418	600	570
9	1460	1340	1510	1430	776	507	535	457	489	429	577	571
10	1420	1310	1520	1440	1030	776	564	535	545	489	580	572
11	1520	1370	1470	1430	1140	1030	588	564	587	545	596	574
12	1480	984	1490	1440	1200	1130	597	557	606	587	574	520
13	1120	993	1560	1440	1170	1030	565	420	631	600	520	507
14	1170	981	1610	1400	1140	1070	500	430	676	631	515	461
15	1090	1030	1610	1420	1120	1070	531	500	716	663	476	462
16	1210	1090	1640	1570	1130	1110	543	531	754	692	479	471
17	1160	1110	2000	1400	1110	1080	571	543	779	723	486	466
18	1160	1100	1560	1480	1080	1060	602	571	783	760	472	440
19	1180	1150	1560	1040	1070	1020	638	577	783	724	467	441
20	1200	1160	1400	1120	1020	617	607	559	744	706	495	467
21	1210	1190	1480	1400	617	511	572	300	706	654	541	495
22	1280	1210	1550	1480	614	508	305	247	663	620	573	540
23	1300	1190	1570	1540	686	614	247	220	620	599	598	573
24	1320	1230	1600	1560	695	331	274	228	600	554	607	574
25	1330	1220	1640	1580	466	324	338	274	558	547	590	557
26	1370	1280	1660	1610	572	466	370	321	654	558	589	535
27	1370	1270	1680	1630	580	527	409	370	662	566	535	492
28	1380	1360	1680	1570	582	481	437	408	666	610	492	484
29	1430	1350	1680	1620	604	582	468	306	636	605	524	484
30	1440	1290	1660	1610	605	533	401	319	631	588	555	521
31	---	---	1760	1600	---	---	475	401	608	591	---	---
MONTH	1520	981	2000	1040	1920	324	638	220	783	418	729	440

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02297100 JOSHUA CREEK AT NOCATEE, FL--Continued

TEMPERATURE, WATER (DEG. C), PERIOD DECEMBER 2001 TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	16.8	15.2	22.4	20.6	16.4	14.6
2	---	---	---	---	---	---	16.1	15.2	22.7	21.0	19.8	16.4
3	---	---	---	---	---	---	16.0	14.0	22.0	20.2	22.1	19.4
4	---	---	---	---	---	---	14.0	11.4	20.7	18.4	21.9	16.5
5	---	---	---	---	---	---	13.6	10.0	18.4	15.6	16.5	14.2
6	---	---	---	---	---	---	15.9	13.6	19.0	16.4	17.3	15.2
7	---	---	---	---	---	---	15.9	14.3	20.3	18.3	17.7	16.6
8	---	---	---	---	---	---	14.3	11.8	19.2	16.8	20.3	17.2
9	---	---	---	---	---	---	12.3	10.1	18.7	16.6	21.4	18.7
10	---	---	---	---	---	---	13.2	10.5	20.7	18.7	22.1	19.5
11	---	---	---	---	---	---	14.6	11.9	20.2	18.7	22.1	19.7
12	---	---	---	---	---	---	15.9	13.3	19.9	17.8	23.0	20.3
13	---	---	---	---	---	---	17.2	15.6	19.0	17.5	23.5	21.3
14	---	---	---	---	---	---	17.5	15.8	18.0	16.6	22.4	19.8
15	---	---	---	---	---	---	18.8	17.5	18.7	15.6	23.0	19.9
16	---	---	---	---	---	---	18.4	16.7	19.5	18.3	23.7	21.2
17	---	---	---	---	---	---	18.9	17.4	18.9	16.6	24.3	21.5
18	---	---	---	---	---	---	19.2	18.0	17.5	14.3	23.9	20.9
19	---	---	---	---	---	---	19.3	16.9	18.1	15.0	24.3	21.7
20	---	---	---	---	18.8	17.0	21.0	19.0	19.5	16.4	24.2	21.6
21	---	---	---	---	17.2	15.1	21.7	19.8	20.8	18.4	24.0	21.6
22	---	---	---	---	17.4	15.4	21.7	21.0	20.3	19.3	24.6	22.0
23	---	---	---	---	18.2	15.9	22.3	20.8	19.3	17.6	22.5	19.5
24	---	---	---	---	19.9	18.0	22.0	20.4	18.0	16.2	22.5	20.1
25	---	---	---	---	18.8	16.3	21.5	19.7	18.3	15.9	23.5	20.5
26	---	---	---	---	16.3	14.2	22.0	20.0	19.0	16.5	24.2	21.3
27	---	---	---	---	14.2	12.7	22.1	20.8	18.6	16.1	24.4	22.1
28	---	---	---	---	16.1	12.8	23.0	21.2	16.1	13.7	24.3	21.4
29	---	---	---	---	18.9	16.1	22.4	20.8	---	---	24.3	21.3
30	---	---	---	---	18.1	16.4	22.9	20.9	---	---	24.5	21.9
31	---	---	---	---	17.5	16.8	23.1	21.3	---	---	25.2	22.5
MONTH	---	---	---	---	---	---	23.1	10.0	22.7	13.7	25.2	14.2
DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.8	22.7	28.0	24.0	27.4	24.8	26.9	25.3	29.2	28.3	28.3	26.6
2	24.3	22.7	28.0	23.9	28.4	26.1	26.6	24.5	28.8	27.2	28.5	26.8
3	23.8	22.2	28.9	24.4	28.5	26.3	27.9	25.8	28.1	26.6	28.2	26.8
4	23.9	21.0	29.4	25.6	28.2	26.7	27.8	26.8	28.5	27.1	28.6	26.7
5	24.6	22.4	28.7	25.3	28.0	26.3	27.5	26.4	28.5	26.7	28.2	27.1
6	24.1	21.3	28.8	25.4	28.6	26.5	27.4	26.4	28.4	27.6	27.8	26.2
7	22.7	19.8	28.0	25.3	27.6	25.5	27.1	26.3	27.7	26.8	27.8	26.6
8	23.2	19.7	28.8	25.4	26.8	24.3	26.7	25.9	27.8	25.9	28.0	26.7
9	24.1	20.8	29.2	24.5	26.9	23.7	26.7	25.5	27.8	26.9	28.0	26.8
10	23.7	21.2	29.1	24.5	27.9	25.1	26.7	25.9	27.6	26.6	28.2	27.0
11	24.6	21.7	28.6	25.1	27.8	26.1	26.9	26.0	27.5	26.7	27.8	26.0
12	24.2	21.5	28.8	24.8	27.7	26.4	27.1	26.7	27.9	26.5	26.0	25.2
13	23.0	21.4	28.5	24.2	27.3	25.9	27.4	25.8	27.7	26.9	26.0	25.3
14	23.0	21.8	28.7	24.7	27.1	26.0	28.8	26.7	28.1	26.1	26.9	25.8
15	24.2	21.3	27.3	24.3	27.1	26.0	28.9	27.6	28.8	26.7	28.0	26.3
16	24.9	22.6	26.8	23.7	27.3	26.1	29.3	28.3	29.1	27.2	28.5	27.3
17	24.8	23.1	27.6	24.2	26.9	26.0	29.3	28.7	28.9	27.3	28.6	27.4
18	25.0	23.0	28.6	24.9	26.7	25.3	29.7	28.5	28.3	26.7	28.6	27.5
19	25.2	22.8	26.6	23.9	26.7	25.5	29.4	28.0	28.5	26.3	28.8	27.9
20	25.3	22.7	25.2	23.4	26.4	24.9	29.5	28.3	28.7	26.6	28.7	27.8
21	25.7	23.1	25.1	23.2	25.8	24.3	28.8	26.3	27.9	26.1	28.8	27.5
22	26.5	23.3	24.8	23.0	25.7	25.2	27.3	25.2	27.6	25.6	28.5	27.3
23	26.4	23.6	25.0	22.7	26.1	24.8	28.5	26.7	28.0	26.1	28.1	27.0
24	26.8	24.2	25.2	22.6	26.0	24.8	29.4	28.0	28.4	26.8	27.5	26.6
25	27.1	23.7	25.2	22.5	26.0	24.6	29.4	28.5	28.3	27.1	27.6	26.4
26	26.7	24.2	25.1	22.8	27.1	25.5	29.2	27.6	28.2	27.4	27.8	26.6
27	27.5	24.2	26.6	23.4	26.9	26.0	28.8	27.5	27.5	26.5	27.8	26.8
28	27.4	23.8	27.1	24.1	27.1	25.5	29.0	27.8	27.1	25.5	28.0	26.7
29	26.9	23.8	27.1	23.6	27.1	26.2	28.9	26.2	27.2	25.5	28.5	27.4
30	27.3	23.9	28.4	24.8	27.1	26.3	28.0	25.6	27.1	26.1	28.1	27.1
31	---	---	27.9	24.8	---	---	29.2	27.4	27.5	26.0	---	---
MONTH	27.5	19.7	29.4	22.5	28.6	23.7	29.7	24.5	29.2	25.5	28.8	25.2

PEACE RIVER BASIN

02297105 PEACE RIVER AT NOCATEE, FL

LOCATION.--Lat 27°09'45", long 81°54'07" (1927 North American datum), in SE $\frac{1}{4}$ sec.22, T.38 S., R.24 E., De Soto County, Hydrologic Unit 03100101, on west bank, on State Highway 760, 400 ft north of Nocatee public boat ramp, and 1.1 mi west of Nocatee.

DRAINAGE AREA.--1,670 mi².

PERIOD OF RECORD.--October 2001 to September 2002 (gage heights only).

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.95 ft, July 2; minimum, 2.43 ft, May 16.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.58	5.02	3.49	3.18	3.37	5.40	3.11	2.88	2.76	11.30	8.42	8.88
2	10.34	4.90	3.47	3.20	3.35	5.23	3.06	2.86	2.79	11.76	8.23	9.57
3	10.03	4.78	3.45	3.27	3.33	5.07	3.09	2.83	2.75	11.85	8.75	9.86
4	9.63	4.67	3.45	3.25	3.29	4.83	3.14	2.80	2.75	11.75	9.29	9.74
5	9.16	4.65	3.44	3.33	3.24	4.55	3.24	2.77	2.74	11.73	9.32	9.45
6	8.67	4.56	3.42	3.45	3.23	4.38	3.21	2.72	2.68	11.78	8.99	9.91
7	8.15	4.47	3.42	3.44	3.25	4.25	3.10	2.70	2.82	11.80	8.67	10.42
8	7.71	4.38	3.48	3.38	3.37	4.17	3.02	2.67	3.09	11.76	8.54	10.64
9	7.36	4.31	3.49	3.35	3.43	4.10	2.99	2.65	4.45	11.49	8.27	10.50
10	7.08	4.25	3.51	3.37	3.50	4.00	2.96	2.62	4.55	10.95	7.97	9.90
11	6.84	4.18	3.56	3.38	3.49	3.90	2.93	2.59	3.90	10.36	7.47	9.60
12	6.64	4.08	3.52	3.35	3.47	3.83	2.96	2.56	3.63	10.08	6.93	9.87
13	6.40	4.02	3.48	3.33	3.45	3.78	3.63	2.54	4.05	10.63	6.43	9.84
14	6.13	3.98	3.53	3.31	3.43	3.69	3.90	2.52	4.12	11.11	6.09	9.62
15	5.85	3.95	3.47	3.80	3.43	3.63	4.22	2.47	4.04	11.01	5.81	9.40
16	5.60	3.93	3.40	4.24	3.43	3.58	4.01	2.46	4.02	10.73	5.52	9.04
17	5.44	3.89	3.38	4.43	3.39	3.53	3.74	2.55	4.36	10.32	5.38	8.68
18	5.27	3.85	3.36	4.25	3.32	3.47	3.56	2.53	5.12	9.84	5.30	8.48
19	5.15	3.81	3.32	4.05	3.26	3.42	3.40	2.70	5.40	9.55	5.86	8.32
20	5.05	3.78	3.30	3.92	3.24	3.37	3.29	3.09	5.92	9.20	6.28	8.09
21	5.05	3.75	---	3.82	3.21	3.30	3.19	3.01	7.62	8.98	6.43	7.83
22	5.37	3.73	---	3.73	3.39	3.22	3.11	2.95	8.89	9.56	6.46	7.67
23	5.74	3.70	---	3.67	5.16	3.15	3.05	2.88	9.45	9.90	6.40	7.58
24	5.88	3.67	---	3.63	6.65	3.12	3.03	2.78	9.29	9.41	6.23	7.77
25	5.69	3.64	---	3.58	6.98	3.11	3.02	2.71	9.79	8.56	5.90	7.96
26	5.66	3.61	---	3.53	6.58	3.15	3.00	2.66	10.16	8.11	5.60	8.20
27	5.64	3.59	---	3.49	6.00	3.12	3.00	2.63	10.71	8.43	5.48	8.83
28	5.52	3.56	3.21	3.49	5.62	3.09	2.96	2.61	11.12	8.95	5.75	9.25
29	5.40	3.54	3.24	3.47	---	3.09	2.95	2.60	11.19	8.93	6.43	9.24
30	5.29	3.52	3.21	3.43	---	3.08	2.91	2.60	11.25	9.03	6.82	8.91
31	5.15	---	3.19	3.40	---	3.12	---	2.59	---	8.72	7.58	---
MEAN	6.69	4.06	---	3.57	3.96	3.77	3.23	2.69	5.85	10.24	6.99	9.10
MAX	10.58	5.02	---	4.43	6.98	5.40	4.22	3.09	11.25	11.85	9.32	10.64
MIN	5.05	3.52	---	3.18	3.21	3.08	2.91	2.46	2.68	8.11	5.30	7.58

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02297155 HORSE CREEK NEAR MYAKKA HEAD, FL

LOCATION.--Lat 27°29'13", long 82°01'25" (1927 North American datum), in SE¼ 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.

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	e8.4	1.5	0.70	1.2	14	0.16	0.05	0.00	128	57	149
2	47	e8.0	1.3	1.1	1.1	12	0.11	0.04	0.00	429	147	121
3	43	e7.3	1.1	3.1	1.0	11	0.11	0.03	0.00	552	121	97
4	35	e7.2	1.2	2.3	0.96	13	0.10	0.02	0.00	238	67	100
5	26	e7.1	1.1	1.5	0.63	12	0.55	0.02	0.00	172	58	64
6	22	e6.9	0.90	1.5	0.50	7.5	0.51	0.01	0.00	131	58	53
7	21	e6.6	0.92	1.5	0.77	7.0	0.30	0.01	4.9	92	115	43
8	29	e6.1	1.7	1.4	2.2	6.7	0.16	0.00	3.5	75	150	37
9	18	e5.9	2.0	1.3	2.1	5.9	0.11	0.00	1.1	69	78	32
10	15	e5.0	1.7	1.1	2.0	4.9	0.09	0.00	0.35	68	59	32
11	13	e4.8	1.9	1.0	2.4	4.0	0.09	0.00	2.9	60	49	61
12	13	e4.3	1.9	0.94	2.4	3.3	1.5	0.00	4.0	72	41	78
13	12	e4.1	1.8	0.98	1.9	2.8	12	0.00	2.7	161	38	71
14	12	e4.1	1.7	1.6	2.0	2.5	7.4	0.00	5.9	89	42	96
15	12	e3.9	1.6	12	2.2	2.0	5.7	0.00	7.0	68	46	143
16	12	e3.6	1.6	7.7	2.0	4.0	7.4	0.00	4.5	71	31	89
17	11	e3.3	1.5	5.1	1.8	15	5.4	0.00	4.2	68	27	70
18	10	e3.2	1.5	4.6	1.4	23	4.4	0.00	5.0	61	58	58
19	9.8	e2.9	1.3	4.2	1.1	26	3.7	0.06	4.9	52	93	49
20	9.7	e2.8	1.1	3.9	0.89	26	3.1	0.04	12	45	71	47
21	14	e2.7	0.88	3.4	0.65	19	2.7	0.02	19	46	69	50
22	28	e2.5	0.75	3.2	12	9.7	2.2	0.02	17	44	63	49
23	19	e2.4	0.65	3.0	52	4.8	1.7	0.01	14	39	51	44
24	16	e2.3	0.63	2.7	47	2.6	1.4	0.01	96	34	41	60
25	13	e2.2	0.63	2.6	31	1.6	0.92	0.01	129	30	32	94
26	12	e2.1	0.91	2.4	25	1.1	0.57	0.00	83	28	26	91
27	11	e1.9	0.95	2.1	21	0.89	0.25	0.00	82	27	32	97
28	10	e1.8	0.95	1.9	17	0.67	0.11	0.00	73	33	74	77
29	9.8	1.6	0.87	1.6	---	0.43	0.08	0.00	61	35	107	60
30	e9.2	1.6	0.77	1.4	---	0.27	0.07	0.00	67	43	222	61
31	e8.9	---	0.70	1.3	---	0.23	---	0.00	---	81	171	---
TOTAL	579.4	126.6	38.01	83.12	236.20	243.89	62.89	0.35	703.95	3141	2294	2173
MEAN	18.7	4.22	1.23	2.68	8.44	7.87	2.10	0.011	23.5	101	74.0	72.4
MAX	58	8.4	2.0	12	52	26	12	0.06	129	552	222	149
MIN	8.9	1.6	0.63	0.70	0.50	0.23	0.07	0.00	0.00	27	26	32
CFSM	0.45	0.10	0.03	0.06	0.20	0.19	0.05	0.00	0.56	2.41	1.76	1.72
IN.	0.51	0.11	0.03	0.07	0.21	0.22	0.06	0.00	0.62	2.78	2.03	1.92
*PREC	1.63	0.04	0.51	2.01	4.16	0.46	2.24	2.35	13.70	8.47	9.46	4.58

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2002, BY WATER YEAR (WY)

	MEAN	23.6	13.4	13.4	18.0	19.4	27.0	14.0	4.20	26.8	44.8	61.8	84.0
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	0.55	0.054	0.13	0.14	0.10	0.15	0.042	0.000	0.021	2.32	2.48	2.74	
(WY)	1985	2001	2001	1985	2001	2000	2000	2000	1997	1993	1993	1984	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1978 - 2002

ANNUAL TOTAL	14621.95	9682.41	
ANNUAL MEAN	40.1	26.5	29.2
HIGHEST ANNUAL MEAN			71.5
LOWEST ANNUAL MEAN			4.56
HIGHEST DAILY MEAN	1400	Sep 14	2240
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	May 6	0.00
MAXIMUM PEAK FLOW			1010
MAXIMUM PEAK STAGE			21.35
ANNUAL RUNOFF (CFSM)	0.95		0.63
ANNUAL RUNOFF (INCHES)	12.95		8.58
10 PERCENT EXCEEDS	115		74
50 PERCENT EXCEEDS	1.6		4.6
90 PERCENT EXCEEDS	0.01		0.06

*PRECIPITATION, TOTAL, INCHES

PEACE RIVER BASIN

02297310 HORSE CREEK NEAR ARCADIA, FL

LOCATION.--Lat 27°11'57", long 81°59'19" (1927 North American datum), in NW¼ 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.

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

REVISED RECORDS.--WSP 1905: Drainage area.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	442	68	17	11	17	196	26	17	6.4	1040	435	1020
2	384	62	17	11	16	181	25	15	7.9	1530	460	980
3	339	58	16	15	16	166	26	14	7.3	1240	951	907
4	300	54	16	14	15	148	31	13	6.7	1060	1530	1120
5	e279	53	16	14	13	130	27	12	6.2	1520	1820	1060
6	e258	48	16	15	13	115	25	11	5.8	2450	1230	877
7	e237	44	16	15	15	104	23	11	5.6	2190	1120	729
8	e216	41	18	14	23	96	22	9.8	8.4	1770	1500	612
9	e195	40	22	14	22	85	20	9.1	10	1370	1050	531
10	e174	37	40	14	22	76	20	8.7	10	1110	920	464
11	e153	35	38	13	23	68	19	8.0	12	899	832	638
12	126	33	32	13	24	61	39	7.5	11	810	754	592
13	111	31	26	13	23	56	331	7.1	15	981	685	529
14	98	30	23	13	21	52	258	7.6	18	1060	658	490
15	89	30	20	57	20	47	216	6.9	21	925	570	447
16	81	29	19	56	19	44	132	6.3	22	870	468	415
17	74	27	18	48	17	41	96	10	34	865	411	388
18	68	26	e17	40	15	37	76	19	174	816	464	371
19	62	24	e16	37	14	35	63	30	114	728	765	366
20	58	24	15	35	13	33	57	34	97	608	661	358
21	74	23	14	33	12	31	48	20	269	550	709	335
22	125	23	14	31	186	30	40	15	802	738	809	300
23	107	22	13	30	529	28	35	12	820	722	724	267
24	108	21	13	29	554	27	31	10	695	716	622	262
25	105	20	12	28	484	26	27	9.2	645	589	523	269
26	107	19	13	25	344	26	25	8.4	654	496	438	268
27	115	19	12	23	259	26	24	7.7	759	538	397	279
28	104	18	12	22	217	26	21	7.2	929	631	461	290
29	90	18	12	21	---	26	19	6.7	1020	631	603	310
30	80	18	11	19	---	26	18	6.3	1080	725	1120	340
31	73	---	11	18	---	26	---	6.1	---	561	1360	---
TOTAL	4832	995	555	741	2946	2069	1820	365.6	8265.3	30739	25050	15814
MEAN	156	33.2	17.9	23.9	105	66.7	60.7	11.8	276	992	808	527
MAX	442	68	40	57	554	196	331	34	1080	2450	1820	1120
MIN	58	18	11	11	12	26	18	6.1	5.6	496	397	262
CFSM	0.72	0.15	0.08	0.11	0.48	0.31	0.28	0.05	1.26	4.55	3.71	2.42
IN.	0.82	0.17	0.09	0.13	0.50	0.35	0.31	0.06	1.41	5.25	4.27	2.70

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

	256	87.8	62.3	96.7	112	153	74.8	27.2	180	327	405	499
MEAN	256	87.8	62.3	96.7	112	153	74.8	27.2	180	327	405	499
MAX	1335	978	962	725	1096	1254	557	338	1854	1742	1571	1742
(WY)	1953	1998	1998	1998	1998	1998	1993	1957	1982	1968	1960	2001
MIN	5.11	2.58	2.25	3.17	3.31	1.06	0.30	0.097	0.18	2.29	20.7	21.9
(WY)	1985	1962	1957	1974	1975	1975	1975	2000	1956	1956	1980	1984

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1951 - 2002

ANNUAL TOTAL	101560.76	94191.9	
ANNUAL MEAN	278	258	190
HIGHEST ANNUAL MEAN			514
LOWEST ANNUAL MEAN			38.4
HIGHEST DAILY MEAN	6520	2450	10700
LOWEST DAILY MEAN	0.17	5.6	0.00
ANNUAL SEVEN-DAY MINIMUM	0.23	6.6	0.00
MAXIMUM PEAK FLOW		2500	11700
MAXIMUM PEAK STAGE		13.86	17.94
ANNUAL RUNOFF (CFSM)	1.28	1.18	0.87
ANNUAL RUNOFF (INCHES)	17.33	16.07	11.87
10 PERCENT EXCEEDS	841	825	520
50 PERCENT EXCEEDS	18	40	45
90 PERCENT EXCEEDS	2.7	12	3.4

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

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

LOCATION.--Lat 27°04'38", long 82°00'27" (1927 North American datum), in 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, and 16.8 mi upstream from mouth.
DRAINAGE AREA.--1,780 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--November 1997 to current year (gage heights only).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.04 ft, Sept. 5; minimum, 2.02 ft below NGVD, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	1.64	0.59	1.64	-0.61	1.98	-0.83	---	---	---	---	0.77	-0.99
2	1.82	0.58	1.95	-0.59	1.76	-1.13	---	---	---	---	2.33	-0.67
3	1.88	0.64	2.00	-0.53	1.67	-1.14	---	---	---	---	1.58	0.09
4	2.01	0.61	1.77	-1.01	1.41	-1.40	---	---	---	---	0.78	-1.18
5	2.11	0.58	1.78	-0.82	1.23	-1.33	---	---	---	---	-0.07	-2.02
6	2.28	0.59	1.57	-0.67	1.06	-1.23	---	---	---	---	0.73	-1.82
7	2.31	0.28	1.46	-0.69	1.20	-0.91	---	---	---	---	1.25	-1.27
8	1.48	-0.40	1.70	-0.47	1.68	-0.07	---	---	---	---	1.14	-1.12
9	0.82	-1.05	1.61	-0.50	1.70	-0.20	---	---	---	---	1.14	-1.03
10	1.29	-0.65	1.60	-0.41	1.57	-0.38	---	---	---	---	0.93	-1.28
11	1.88	-0.18	1.89	0.09	1.66	-0.64	---	---	---	---	0.94	-1.56
12	2.22	0.09	1.73	-0.27	1.73	-0.80	---	---	---	---	1.40	-0.78
13	2.55	0.81	1.73	-0.55	1.76	-0.91	---	---	---	---	1.85	-0.38
14	2.57	0.82	1.71	-0.59	2.06	-0.64	---	---	---	---	1.21	-0.74
15	2.12	0.10	1.81	-0.59	1.97	-0.81	---	---	---	---	1.21	-0.67
16	1.91	-0.10	1.94	-0.79	1.59	-1.13	---	---	---	---	1.38	-0.62
17	1.56	-0.94	1.39	-1.38	1.79	-0.74	---	---	---	---	1.08	-0.63
18	0.91	-1.21	1.48	-1.30	---	---	---	---	---	---	1.41	-0.84
19	1.71	-0.85	1.77	-0.82	---	---	---	---	---	---	1.57	-0.98
20	2.06	-0.43	1.76	-0.47	---	---	---	---	---	---	1.76	-0.76
21	1.84	-0.45	1.77	-0.47	---	---	---	---	---	---	1.48	-0.53
22	1.91	-0.28	1.47	-0.27	---	---	---	---	---	---	0.91	-0.83
23	2.11	0.11	1.48	-0.07	---	---	---	---	---	---	1.17	-1.70
24	2.11	0.47	1.58	0.12	---	---	---	---	---	---	1.63	-1.37
25	1.94	0.06	1.64	-0.24	---	---	---	---	---	---	1.65	-0.80
26	1.61	-0.73	1.46	-0.23	---	---	---	---	---	---	1.56	-0.86
27	0.41	-0.97	1.44	-0.51	---	---	---	---	---	---	1.51	-0.86
28	0.38	-0.85	1.66	-0.60	---	---	---	---	0.97	-1.01	1.31	-0.80
29	0.58	-0.75	1.86	-0.49	---	---	---	---	---	---	1.31	-0.67
30	0.92	-0.71	1.96	-0.61	---	---	---	---	---	---	1.77	-0.72
31	1.24	-0.62	---	---	---	---	---	---	---	---	2.10	-0.42
MONTH	2.57	-1.21	2.00	-1.38	---	---	---	---	---	---	2.33	-2.02

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

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

WATER-QUALITY RECORDS

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

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

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

EXTREMES FOR PERIOD OF RECORD.--

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

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 15,700 microsiemens, May 30; bottom sensor maximum, 16,200 microsiemens, May 30; top sensor minimum, 100 microsiemens, Dec. 29, 30, Jan. 3, 5, 6, 11, 12, 15; bottom sensor minimum, 182 microsiemens, Sept. 8.

TEMPERATURE.--Top sensor maximum, 32.0°C, June 3; bottom sensor maximum, 31.8°C, May 8, 9, June 3; top sensor minimum, 13.0°C, Jan. 9; bottom sensor minimum, 13.2°C, Jan. 10.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(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	243	242	398	390	1570	533	997	101	---	---	451	439
2	246	242	409	392	1160	541	995	101	---	---	482	451
3	265	244	416	403	1130	547	933	100	---	---	462	452
4	256	250	425	409	829	552	780	601	---	---	463	458
5	260	256	427	416	735	555	936	100	---	---	472	455
6	267	260	435	420	693	558	990	100	---	---	469	460
7	279	267	441	426	994	568	956	106	---	---	474	463
8	291	278	444	432	1590	569	949	616	---	---	485	471
9	304	291	448	431	1840	563	991	108	---	---	491	478
10	314	304	446	431	864	556	980	101	---	---	503	488
11	321	312	470	434	940	551	993	100	---	---	516	499
12	327	320	451	438	922	554	996	100	---	---	766	508
13	335	326	476	443	1040	544	982	105	---	---	1480	514
14	342	330	475	451	2510	557	998	103	896	562	591	518
15	354	339	496	457	2020	568	944	100	618	562	584	522
16	369	351	541	463	1040	572	709	611	616	553	617	529
17	381	368	494	472	1580	572	639	585	817	553	569	534
18	390	380	516	482	---	---	609	574	612	550	607	542
19	400	384	622	490	---	---	621	573	604	547	883	551
20	403	388	602	490	915	221	607	579	587	546	1180	559
21	412	394	583	492	645	291	601	582	965	550	923	563
22	415	407	583	497	959	299	602	582	3850	557	664	569
23	428	401	575	501	994	107	605	300	991	557	1530	573
24	444	421	559	506	952	104	---	---	564	443	4080	587
25	443	417	589	511	949	105	---	---	444	421	4370	607
26	429	418	586	513	995	104	---	---	435	423	3610	610
27	429	420	596	515	968	102	---	---	445	435	3270	607
28	427	401	655	517	968	101	---	---	443	438	2110	599
29	403	394	969	520	983	100	---	---	---	---	1810	607
30	397	391	1300	525	989	100	---	---	---	---	3610	613
31	394	389	---	---	987	101	---	---	---	---	6450	630
MONTH	444	242	1300	390	---	---	---	---	---	---	6450	439

PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL

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

DRAINAGE AREA.--1,870 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, 5.64 ft, Sept. 14, 2001; minimum, 2.46 ft below NGVD, Jan. 15, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.00 ft, Sept. 5; minimum, 2.09 ft below NGVD, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	1.51	-0.48	1.72	-0.52	2.07	-0.71	1.88	-1.08	1.42	-0.80	0.72	-0.97
2	1.75	-0.29	2.05	-0.58	1.85	-1.00	1.48	-0.70	0.91	-0.72	2.36	-0.59
3	1.84	-0.19	2.10	-0.47	1.74	-1.02	1.93	-0.68	1.23	-0.61	2.09	0.15
4	1.98	-0.17	1.87	-0.99	1.49	-1.27	0.34	-1.63	1.18	-0.58	0.44	-1.34
5	2.10	-0.03	1.91	-0.69	1.31	-1.23	1.22	-0.65	1.06	-1.43	-0.05	-2.09
6	2.30	0.06	1.68	-0.53	1.17	-1.09	2.09	0.06	1.78	-0.91	0.75	-1.77
7	2.36	-0.12	1.55	-0.54	1.27	-0.76	1.07	-0.18	2.10	-0.18	1.27	-1.16
8	1.48	-0.71	1.79	-0.33	1.76	0.07	0.60	-1.80	1.31	-1.19	1.20	-1.01
9	0.90	-1.58	1.68	-0.36	1.72	-0.05	1.06	-1.39	1.15	-1.00	1.15	-0.92
10	1.30	-0.83	1.65	-0.27	1.72	-0.21	1.58	-1.21	1.47	-0.87	0.92	-1.15
11	1.94	-0.26	1.99	0.24	1.76	-0.49	1.62	-1.04	1.28	-1.17	1.13	-1.48
12	2.30	0.03	1.83	-0.12	1.80	-0.68	1.76	-1.08	1.30	-0.88	1.35	-0.71
13	2.70	0.72	1.83	-0.43	1.93	-0.80	2.05	-0.99	1.33	-0.84	1.86	-0.21
14	2.74	0.63	1.82	-0.46	2.16	-0.56	1.84	-0.71	0.98	-1.11	1.21	-0.57
15	2.23	0.14	1.91	-0.44	2.05	-0.68	2.18	-0.72	1.30	-0.72	1.16	-0.52
16	2.02	-0.05	2.06	-0.67	1.66	-0.98	1.14	-1.10	1.30	-0.44	1.37	-0.48
17	1.65	-0.97	1.46	-1.27	1.87	-0.60	1.07	-0.86	1.00	-0.60	1.08	-0.68
18	0.99	-1.21	1.56	-1.20	2.20	-0.44	1.15	-0.73	0.74	-0.96	1.40	-0.71
19	1.95	-0.82	1.86	-0.67	1.63	-0.32	1.25	-0.49	1.43	-0.78	1.56	-0.83
20	2.19	-0.40	1.85	-0.28	1.55	-0.86	1.19	-0.38	2.10	-0.29	1.76	-0.60
21	1.93	-0.38	1.86	-0.28	0.60	-0.95	0.99	-0.07	2.06	-0.25	1.54	-0.39
22	2.00	-0.20	1.54	-0.08	1.20	-0.45	1.00	-0.64	1.54	-0.49	0.98	-0.65
23	2.18	0.17	1.55	0.10	1.96	0.07	1.29	-0.82	1.28	-0.82	1.19	-1.58
24	2.18	0.55	1.70	0.31	1.96	0.27	1.53	-1.09	1.09	-1.04	1.68	-1.24
25	2.01	0.15	1.70	-0.06	1.41	-0.38	1.88	-0.67	1.59	-1.02	1.64	-0.69
26	1.68	-0.66	1.51	-0.05	1.34	-0.62	1.46	-0.97	2.03	-0.50	1.56	-0.77
27	0.54	-0.90	1.65	-0.35	2.00	-0.79	1.60	-1.15	---	---	1.51	-0.73
28	0.51	-0.79	1.80	-0.48	2.31	-0.43	1.74	-0.99	---	---	1.31	-0.68
29	0.72	-0.63	1.94	-0.38	2.56	0.07	1.79	-0.91	---	---	1.31	-0.63
30	0.97	-0.58	2.06	-0.51	2.21	-0.64	1.73	-0.92	---	---	1.78	-0.49
31	1.30	-0.50	---	---	1.98	-0.78	1.62	-0.75	---	---	2.11	-0.31
MONTH	2.74	-1.58	2.10	-1.27	2.56	-1.27	2.18	-1.80	---	---	2.36	-2.09

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.88	-0.26	2.09	-0.66	1.63	-0.33	1.35	-0.22	---	---	2.03	0.06
2	1.86	-0.55	1.79	-0.47	1.39	-0.25	1.32	-0.08	---	---	2.38	0.11
3	1.52	-0.49	1.73	-0.48	1.44	-0.24	1.51	0.18	---	---	2.72	1.61
4	1.33	-0.89	1.28	-0.48	1.41	-0.03	1.64	0.16	2.06	-0.36	2.86	0.30
5	0.97	-0.81	1.03	-0.49	1.59	0.19	1.69	-0.17	2.12	-0.43	3.00	0.49
6	0.46	-1.23	0.88	-0.46	1.72	0.29	1.80	-0.14	---	---	2.75	0.34
7	0.64	-1.40	1.26	-0.36	1.91	-0.14	1.98	-0.29	---	---	2.39	0.11
8	1.55	-0.83	1.41	-0.07	1.87	-0.31	1.62	-0.39	2.30	-0.59	2.04	0.01
9	1.64	-0.02	1.65	0.10	1.67	-0.68	2.22	-0.24	2.27	-0.57	2.07	-0.04
10	1.62	-0.13	1.55	-0.21	1.90	-0.54	2.41	-0.21	2.08	-0.44	2.12	0.07
11	1.45	-0.17	1.36	-0.45	2.02	-0.53	2.58	-0.11	2.34	-0.40	2.28	0.04
12	1.80	0.00	1.65	-0.32	2.43	-0.53	2.61	0.08	2.07	-0.16	2.33	0.51
13	1.67	-0.12	2.01	-0.23	2.40	-0.18	2.58	0.37	1.81	0.12	2.17	0.01
14	1.64	-0.45	2.02	-0.44	2.84	-0.24	---	---	1.82	-0.10	2.08	0.12
15	1.70	-0.46	1.01	-0.94	2.42	0.64	---	---	1.97	-0.11	1.88	-0.16
16	1.56	-0.54	1.79	-1.29	2.45	0.22	1.83	0.16	1.65	-0.39	1.91	-0.19
17	1.48	-0.64	2.00	-0.84	1.85	0.12	1.86	-0.01	1.96	-0.32	1.92	-0.27
18	1.48	-0.75	2.05	-0.44	1.71	-0.18	2.27	-0.01	2.03	-0.40	1.98	-0.37
19	1.51	-0.75	1.72	-0.29	1.73	-0.24	2.20	-0.03	2.21	-0.36	2.16	-0.12
20	1.40	-0.73	0.88	-0.51	1.57	-0.36	2.18	-0.35	2.34	-0.27	2.34	0.40
21	1.45	-0.60	0.59	-0.99	1.91	-0.23	2.41	-0.55	2.26	-0.24	2.43	0.45
22	1.39	-0.58	0.51	-1.11	2.53	-0.05	2.30	-0.32	2.15	-0.21	2.23	0.51
23	1.38	-0.42	0.96	-0.74	2.22	-0.36	2.28	-0.32	2.10	-0.10	2.34	0.56
24	1.30	-0.62	1.63	-0.48	2.30	-0.39	2.50	-0.40	2.11	0.08	2.28	0.35
25	1.56	-0.15	1.99	-0.40	2.32	-0.36	2.15	-0.26	2.25	0.18	2.38	0.60
26	1.79	-0.33	2.10	-0.55	2.29	-0.23	2.25	-0.33	2.11	0.18	2.74	1.45
27	1.98	-0.27	2.14	-0.49	2.14	-0.27	---	---	2.02	0.42	2.59	0.53
28	2.06	-0.33	1.89	-0.49	2.46	-0.27	---	---	1.96	0.44	2.06	0.00
29	1.99	-0.39	2.31	-0.47	1.80	-0.26	1.65	0.04	1.96	0.46	1.61	-0.44
30	1.90	-0.45	2.30	-0.33	1.48	-0.29	1.67	0.27	1.93	0.01	1.64	-0.59
31	---	---	2.08	-0.22	---	---	---	---	2.03	0.02	---	---
MONTH	2.06	-1.40	2.31	-1.29	2.84	-0.68	---	---	---	---	3.00	-0.59

PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1996 to current year, incomplete. 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 sensors located 1.0 ft below the surface and 1.0 ft above the bottom.

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

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 44,500 microsiemens, May 21, 2000; bottom sensor maximum, 45,900 microsiemens, June 1, 2000; top sensor minimum, 78 microsiemens, Mar. 24, 25, 1998; bottom sensor minimum, 81 microsiemens, Mar. 24, 25, 1998.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 38,900 microsiemens, May 30; bottom sensor maximum, 38,000 microsiemens, May 30; top sensor minimum, 213 microsiemens, Sept. 9; bottom sensor minimum, 205 microsiemens, Sept. 9.

TEMPERATURE.--Top sensor maximum, 32.7°C, July 17; bottom sensor maximum, 32.4°C, Sept. 29; top sensor minimum, 11.9°C, Jan. 4; bottom sensor minimum, 10.3°C, Jan. 8.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(1 FT BELOW SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	408	271	13500	832	28000	9550	29000	12600	23000	7850	6870	726
2	360	281	14900	1200	25600	9000	26000	14200	20200	9880	26000	970
3	339	280	15800	1210	22700	9420	28600	13400	21900	9770	21500	3150
4	400	288	13000	973	24000	9030	21100	10200	21500	11100	6250	1420
5	415	301	10500	1390	20800	10600	25100	13900	20400	8120	5200	680
6	438	310	7870	1460	21200	11800	---	---	26600	10600	18700	1140
7	445	325	16800	2380	24500	12500	---	---	29200	14100	25600	2480
8	452	328	18200	5850	26500	17500	---	---	24700	10300	23900	6750
9	733	334	19400	8220	26200	15500	---	---	21500	12200	23900	8700
10	1120	402	19300	6870	23900	12600	---	---	25900	12300	24300	10700
11	5450	462	20800	10500	23900	10800	---	---	24000	11500	27700	9220
12	8420	449	18900	6550	23700	9510	---	---	23800	13000	28000	14200
13	11000	639	20200	5510	24500	9140	---	---	23100	13300	32100	13600
14	9690	689	20800	5680	28600	10800	---	---	21600	11200	26200	10300
15	5220	578	21300	7480	26300	9620	---	---	25500	12900	25200	10500
16	4270	502	20800	6000	22500	8670	---	---	25200	14600	26100	11400
17	2600	482	15000	4170	27500	10400	---	---	23100	14600	22800	10800
18	2070	504	20700	4590	30000	12300	---	---	20100	11800	26200	9640
19	10100	878	22100	6700	25300	13000	---	---	24900	11600	27200	10400
20	12000	841	21600	10500	22200	10100	---	---	31500	13400	29000	11700
21	6750	874	22700	9800	18100	9640	---	---	31500	15900	27100	11700
22	8620	622	21100	10500	23000	13000	---	---	24800	11400	21500	11400
23	6880	937	21700	13700	27300	15300	---	---	20900	10200	26000	11600
24	8170	1170	21700	13800	27700	18600	---	---	19000	5000	30400	13100
25	5950	686	22300	13000	22400	14300	26900	9260	17400	1180	30200	17400
26	2750	499	21000	11800	20500	15300	23200	7290	15500	861	29300	15900
27	1370	476	22600	10900	29000	14400	25400	6870	---	---	28700	15800
28	4430	608	23500	10700	31600	16100	25600	7650	---	---	27600	15300
29	4320	1070	25600	11400	32400	19000	26000	8610	---	---	27300	16200
30	5340	793	27600	10200	29100	14400	25100	8910	---	---	30100	15400
31	7410	696	---	---	28100	14000	24400	9400	---	---	32000	17700
MONTH	12000	271	27600	832	32400	8670	---	---	---	---	32100	680

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(1 FT BELOW SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	31000	17500	32900	14500	34000	22700	1130	306	---	---	489	308
2	31000	15300	31400	15700	30900	22200	880	296	---	---	421	258
3	28000	14500	30900	15300	31600	22500	894	281	---	---	471	259
4	24100	12800	28200	15600	31300	22400	1180	280	502	273	513	255
5	22600	14700	26800	14600	32000	25200	629	286	655	263	390	256
6	21700	15200	28100	17400	34100	25500	771	275	---	---	422	256
7	23300	14000	30200	19000	35100	25000	899	248	---	---	464	245
8	29800	16600	30800	22600	33700	22300	730	240	689	275	343	237
9	31000	20400	31900	24000	27600	18200	854	247	623	280	331	213
10	30600	20200	31500	23600	30600	16300	797	279	541	302	330	217
11	29000	20000	30400	22500	26700	15600	681	292	2140	321	361	235
12	31800	19000	32400	22600	33700	14600	571	295	540	308	328	249
13	27400	14800	35200	23300	30200	15600	556	290	496	318	409	241
14	25800	11600	35500	24900	35800	13000	---	---	461	335	384	246
15	25000	8750	28400	22600	26400	17000	---	---	2200	355	429	260
16	22000	6770	34300	19200	24300	12000	460	298	1150	427	396	286
17	22300	5980	34700	20400	17700	9160	503	290	5900	469	441	300
18	23800	6310	35100	22000	13500	5310	506	309	3940	479	494	311
19	25300	7280	30500	22300	13900	2570	522	320	5700	504	1280	318
20	26000	9400	26600	19800	8770	1860	568	345	4340	470	4000	314
21	24700	11600	22600	17500	12200	1340	742	349	1610	470	3830	321
22	23400	13400	21500	17800	17000	757	545	325	742	381	1250	319
23	23200	14600	24500	19300	4080	627	610	302	728	387	1660	319
24	23400	13500	30000	20900	4060	623	654	315	2020	362	1590	319
25	24400	15500	33800	21500	2740	519	514	321	3070	370	918	324
26	26600	14500	35000	21700	1310	506	516	330	1880	399	2300	327
27	28600	14600	35000	21300	1300	455	---	---	871	388	608	307
28	30900	15900	34000	21900	1280	402	---	---	549	398	429	272
29	31400	16300	38600	21300	1080	343	460	303	498	347	448	262
30	31200	15700	38900	23500	1110	333	416	295	543	351	782	273
31	---	---	35400	23000	---	---	---	---	539	360	---	---
MONTH	31800	5980	38900	14500	35800	333	---	---	---	---	4000	213

PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(1 FT ABOVE BOTTOM)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	399	263	13300	832	28200	9490	29100	12600	24100	8330	7240	745
2	353	271	14900	1210	25700	9010	26300	14200	21300	10300	26700	995
3	329	274	15600	1210	26500	9380	28700	13400	23000	10200	22200	3180
4	389	278	12700	1050	25500	9060	21300	10200	22600	11600	6590	1370
5	402	296	11700	1380	20800	10600	25300	13900	22000	8450	5300	639
6	399	302	7820	1460	22200	11700	34600	17400	27900	11000	18000	1100
7	461	315	16800	2400	24600	12400	24800	14300	30600	14800	26200	2510
8	445	321	20900	5740	27900	17400	19400	9210	26000	10800	24500	6860
9	715	329	20600	8220	27900	15800	21400	12200	22400	12800	24400	9010
10	1080	393	19900	6810	25200	13000	28000	13900	27100	12900	24800	10900
11	5520	453	22100	10600	25700	10800	28500	14300	25200	12000	28200	9510
12	8350	440	19600	6380	26500	9500	27800	13000	25200	13500	28400	14500
13	10800	623	20700	5570	27500	9140	31900	13900	24100	13800	32900	14200
14	9640	653	21300	5580	29600	10800	28800	14200	22600	11600	26700	10700
15	5240	581	22300	7470	28600	9610	32200	12100	26600	13300	25700	10700
16	4430	490	22200	5880	24800	8640	23100	8700	26400	15200	26700	11800
17	2830	487	18300	4120	27500	10300	21400	8500	24300	15200	23400	11300
18	1970	502	21800	4500	30100	12300	21900	7630	21000	12300	27700	10100
19	10200	873	25900	6650	24200	13000	20900	8800	26500	12100	28100	10800
20	12000	845	26200	10400	23400	10100	19800	8340	33200	14100	29900	12300
21	9270	867	23900	9910	18300	9630	17700	7470	33200	16900	27900	12200
22	12600	615	23800	11100	23200	13000	21400	5470	26300	12300	22300	11400
23	14200	894	23900	13900	29500	15300	22700	6590	22500	11000	26400	11900
24	9550	1210	24300	14100	29400	18700	25200	7000	20300	5450	31100	13500
25	7850	713	24300	13000	23000	14200	28000	9670	18600	1290	31100	18000
26	2920	570	23300	11800	23000	15400	24600	7600	19100	895	30100	16000
27	1370	484	25400	11000	29300	14400	26400	7130	---	---	29100	16300
28	4400	619	26300	10700	31800	16100	27100	8140	---	---	28100	15600
29	4320	1080	27300	11400	33200	19200	27100	8860	---	---	27600	16400
30	5190	801	27800	10200	30200	14400	26300	9270	---	---	30800	15900
31	7360	707	---	---	29900	14000	25500	9720	---	---	32700	18300
MONTH	14200	263	27800	832	33200	8640	34600	5470	---	---	32900	639

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	31900	17900	33600	14900	34100	22100	1160	305	---	---	466	298
2	31300	15300	31700	15900	30800	21900	883	297	---	---	407	250
3	27900	14500	31000	15500	30900	22200	886	285	---	---	529	251
4	24400	12900	28000	15700	31500	22100	1170	281	485	262	894	247
5	23400	14900	25800	14700	31700	24200	636	287	635	254	403	248
6	21500	15300	28100	17400	33800	24900	772	276	---	---	409	247
7	23200	13900	30400	18900	34600	24300	897	247	---	---	446	238
8	29900	16700	30800	22700	33800	20300	735	239	657	274	332	229
9	31700	20100	32300	24000	28700	17200	844	245	616	271	319	205
10	31300	20500	31800	23700	30200	16700	761	274	522	291	303	209
11	29500	20400	30400	22500	30200	15500	654	287	2220	308	353	228
12	33100	19600	32600	22500	34700	14300	550	293	521	295	319	240
13	28300	15100	35700	23900	32300	15400	524	282	483	307	397	233
14	26600	12300	34800	25100	35900	12800	---	---	545	323	371	239
15	25600	9060	28300	21900	27000	16800	---	---	2870	345	416	251
16	22700	6990	33300	18600	25500	12400	445	288	1250	412	376	276
17	21600	6140	33800	19800	17800	9460	524	280	6300	452	426	291
18	24100	6590	34300	21000	14100	5280	492	295	6380	460	469	301
19	26700	7760	29700	21500	14900	3020	495	305	5750	483	1150	307
20	27800	10300	26100	19300	10600	1930	542	331	5290	456	4420	307
21	26500	12500	22100	17100	13300	1370	714	331	2690	456	4230	310
22	23800	14100	20800	17100	18300	785	527	311	881	373	1240	312
23	24500	15600	23600	18400	4000	638	576	286	1010	371	2140	311
24	25200	15000	28700	19900	4300	609	622	298	2910	352	1800	311
25	27300	17600	32500	20700	3690	522	483	310	3740	356	1120	312
26	29600	16100	34200	21000	1350	509	497	320	2250	385	2500	328
27	31300	16200	33500	20300	1320	440	---	---	1120	377	610	304
28	32400	17300	32400	21000	1330	410	---	---	533	384	439	279
29	32400	17100	36800	20500	1100	347	450	291	494	334	447	265
30	31800	16200	38000	22800	1120	328	402	284	517	339	793	274
31	---	---	34700	22500	---	---	---	---	518	336	---	---
MONTH	33100	6140	38000	14700	35900	328	---	---	---	---	4420	205

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(1 FT BELOW SURFACE)

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.4	23.0	22.9	21.0	24.5	22.9	19.2	17.2	26.9	24.2	18.2	15.5
2	26.9	22.9	24.0	22.2	24.9	23.2	19.0	16.6	26.5	24.3	20.4	17.3
3	26.6	23.8	25.0	23.1	24.7	23.1	17.8	15.3	26.0	23.5	23.0	19.5
4	26.9	24.6	24.7	23.1	25.8	22.8	16.7	11.9	25.1	22.8	23.0	15.2
5	27.7	25.0	23.4	21.9	25.4	22.3	15.9	12.8	23.5	17.3	18.2	12.5
6	28.2	26.1	23.4	20.4	24.8	22.4	---	---	20.7	18.7	17.4	14.3
7	29.4	26.7	25.4	21.0	25.3	22.9	---	---	21.1	19.7	17.5	16.7
8	29.6	26.4	25.0	21.9	25.8	23.3	---	---	21.0	17.0	20.3	16.7
9	28.6	25.3	24.8	21.6	26.4	23.8	---	---	20.6	19.1	22.2	18.8
10	27.4	25.0	24.2	21.5	25.3	24.1	---	---	22.0	20.3	23.3	20.8
11	27.3	25.3	23.8	21.5	26.1	23.8	---	---	22.0	20.3	23.8	20.8
12	26.8	25.3	23.9	21.8	25.7	24.2	---	---	22.9	20.3	24.1	22.1
13	27.1	25.3	23.6	20.9	25.8	23.8	---	---	22.6	20.3	25.1	23.2
14	27.4	25.8	23.2	21.7	26.4	24.7	---	---	21.8	18.4	26.4	22.6
15	28.3	26.5	22.4	21.5	26.2	25.0	---	---	21.8	18.8	27.3	23.7
16	28.0	26.4	22.7	20.7	26.3	24.7	---	---	22.2	20.7	27.8	24.9
17	27.1	24.2	23.8	20.4	26.4	24.8	---	---	21.9	19.6	28.1	25.6
18	25.0	22.0	24.7	21.6	25.8	23.9	---	---	20.8	17.4	28.6	25.1
19	26.2	23.1	24.3	22.0	25.3	22.6	---	---	20.5	18.1	28.5	25.5
20	27.3	24.8	25.7	22.4	24.5	21.5	---	---	20.4	18.9	27.1	25.5
21	27.3	25.5	25.4	22.7	22.1	18.0	---	---	20.9	19.7	26.8	25.6
22	27.7	25.4	25.8	22.6	21.3	19.1	---	---	21.6	20.7	27.5	25.4
23	28.3	25.6	25.1	22.8	21.1	19.0	---	---	21.0	19.1	25.8	20.2
24	29.0	26.0	25.3	23.0	22.1	20.1	---	---	21.4	17.7	25.2	22.7
25	29.6	27.0	25.8	23.4	20.5	18.5	24.7	22.1	21.3	17.7	26.1	23.6
26	27.7	24.7	25.4	23.3	18.5	16.6	25.4	23.1	21.8	19.2	27.3	24.8
27	25.1	20.0	24.8	22.8	17.5	14.4	25.0	23.7	---	---	28.2	25.6
28	22.4	17.6	24.3	22.4	17.3	15.4	26.3	24.3	---	---	28.3	24.7
29	21.8	18.4	24.1	22.3	19.1	17.2	26.6	24.5	---	---	27.9	24.8
30	22.0	18.9	24.6	22.6	19.0	18.0	26.2	24.7	---	---	27.7	25.8
31	22.2	20.1	---	---	19.0	18.2	26.1	24.4	---	---	27.7	26.0
MONTH	29.6	17.6	25.8	20.4	26.4	14.4	---	---	---	---	28.6	12.5

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	28.0	26.0	29.6	28.1	31.9	27.9	28.1	26.6	---	---	31.2	28.5
2	27.6	26.3	29.5	28.1	31.4	28.5	28.3	26.2	---	---	31.4	28.9
3	27.3	26.0	29.8	28.4	31.7	28.9	29.3	26.1	---	---	31.4	28.7
4	28.1	25.0	30.7	29.0	30.6	29.4	29.2	26.7	31.8	28.4	30.6	28.1
5	27.7	25.4	32.0	29.2	30.6	28.8	29.6	26.4	30.1	28.5	29.4	28.1
6	27.0	23.0	31.7	28.6	31.1	28.8	29.6	26.4	---	---	29.2	27.4
7	25.8	21.3	31.3	28.3	30.6	29.1	29.8	26.3	---	---	29.5	27.5
8	24.7	21.7	31.3	28.5	29.9	27.8	29.4	26.5	31.0	27.0	29.6	27.4
9	25.0	23.2	31.0	28.0	30.3	27.3	28.2	26.4	30.1	27.3	30.5	27.7
10	26.0	24.2	31.4	28.9	30.1	27.2	28.2	26.6	29.9	27.2	30.4	28.4
11	26.7	24.5	31.0	28.5	30.4	27.4	28.9	26.6	29.5	27.5	29.1	27.1
12	26.2	24.9	30.1	28.3	30.1	27.8	29.7	27.5	29.8	28.0	27.2	26.3
13	26.2	24.2	30.0	28.3	32.1	28.5	29.1	27.1	29.5	28.2	27.8	26.1
14	26.9	24.6	30.0	28.7	30.8	28.8	---	---	31.2	27.7	29.2	26.0
15	28.1	24.7	29.4	27.3	30.2	28.4	---	---	31.6	28.3	29.9	26.9
16	28.7	25.7	28.4	26.7	30.0	28.3	31.6	29.3	32.1	29.0	31.5	28.0
17	29.4	26.2	28.7	26.7	30.2	28.0	32.7	28.8	31.7	29.1	32.3	28.2
18	28.4	26.1	29.1	27.4	30.2	27.5	31.8	29.5	31.8	29.1	32.3	28.6
19	28.7	26.1	29.1	27.0	31.7	27.7	32.3	29.6	31.9	29.5	31.2	28.8
20	29.3	25.9	29.5	25.6	29.3	27.3	32.3	29.6	31.9	29.7	30.7	28.8
21	29.1	26.5	29.1	24.2	29.4	26.3	30.1	28.1	32.1	29.2	30.6	28.7
22	29.6	26.9	28.5	23.7	27.7	26.4	31.3	28.1	32.3	28.4	30.6	28.6
23	29.9	27.3	27.8	23.1	28.3	26.0	31.7	28.2	32.3	28.4	29.4	28.4
24	30.4	27.0	27.0	23.8	28.1	25.8	31.0	29.0	32.4	28.8	29.5	27.8
25	30.1	27.1	26.7	24.3	28.4	26.0	31.0	29.0	31.6	29.4	29.3	27.7
26	29.9	28.4	26.4	24.8	28.5	26.2	30.6	29.0	31.3	29.9	29.0	27.8
27	30.0	28.1	27.6	24.8	29.4	26.4	---	---	30.5	28.8	30.4	27.8
28	29.8	28.2	28.1	25.6	29.4	26.4	---	---	31.1	28.3	30.6	28.3
29	29.9	28.6	28.7	26.0	28.4	26.4	30.3	28.5	30.6	28.1	32.4	28.6
30	30.9	28.1	29.2	27.0	29.3	26.6	30.9	28.9	31.9	28.4	30.8	28.4
31	---	---	29.1	27.6	---	---	---	---	31.4	28.5	---	---
MONTH	30.9	21.3	32.0	23.1	32.1	25.8	---	---	---	---	32.4	26.0

PEACE RIVER BASIN

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(1 FT ABOVE BOTTOM)

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.3	22.9	22.9	21.0	24.5	22.9	19.2	17.1	26.9	24.2	18.2	15.5
2	26.8	22.9	24.0	22.2	25.1	23.2	19.0	16.6	26.5	24.3	20.4	17.2
3	26.6	23.8	25.0	23.1	24.8	23.2	17.7	15.3	26.1	23.5	23.0	19.4
4	26.8	24.6	24.6	23.0	25.7	22.8	16.6	11.9	25.1	22.8	23.0	15.2
5	27.7	25.0	23.5	21.8	25.3	22.3	15.8	12.7	23.6	17.4	18.2	12.5
6	28.3	26.0	23.4	20.4	24.7	22.4	16.3	14.9	20.7	18.7	17.4	14.3
7	29.3	26.7	25.3	20.9	25.3	23.0	16.3	14.8	21.1	19.7	17.5	16.7
8	29.6	26.4	24.9	22.0	25.7	23.3	15.3	10.3	21.0	17.0	20.5	16.6
9	28.5	25.3	24.7	21.8	26.3	23.8	15.4	10.8	20.6	19.1	22.2	18.8
10	27.4	25.0	24.1	21.7	25.2	24.1	15.5	12.3	22.0	20.3	23.4	20.8
11	27.2	25.3	23.7	21.7	25.8	23.8	16.7	14.7	21.9	20.3	23.9	20.8
12	26.8	25.3	23.6	21.7	25.6	24.2	18.1	15.7	22.9	20.4	24.1	22.1
13	27.0	25.3	23.5	20.9	25.8	23.8	19.2	17.3	22.6	20.3	25.1	23.2
14	27.3	25.8	23.0	21.7	26.4	24.7	19.3	17.8	21.9	18.4	26.4	22.6
15	28.3	26.5	22.5	21.5	26.4	25.0	19.8	18.7	21.8	18.8	27.3	23.7
16	28.0	26.3	22.6	20.7	26.4	24.7	20.3	18.0	22.1	20.7	27.7	24.9
17	27.1	24.2	23.7	20.4	26.3	24.7	21.4	19.3	21.9	19.6	28.0	25.6
18	25.1	21.9	24.7	21.6	25.8	23.7	22.5	20.1	20.8	17.4	28.6	25.2
19	26.2	23.1	24.4	22.1	25.2	22.6	22.5	19.1	20.5	18.1	28.5	25.5
20	27.3	24.8	25.8	23.1	24.6	21.4	25.1	21.1	20.4	18.9	27.1	25.5
21	27.2	25.5	25.5	22.8	22.1	18.0	25.4	21.8	20.9	19.7	26.8	25.6
22	27.6	25.4	25.8	22.7	21.3	19.1	24.4	22.8	21.6	20.6	27.5	25.4
23	28.6	25.7	25.1	23.0	21.0	19.0	24.1	22.3	21.0	19.1	25.7	20.2
24	28.8	26.2	25.3	23.0	22.1	20.1	23.9	22.1	21.4	17.7	25.1	22.7
25	29.5	27.1	25.8	23.5	20.7	18.7	24.7	22.1	21.4	17.7	26.0	23.6
26	27.7	24.8	25.3	23.3	19.0	16.5	25.3	23.1	21.8	19.2	27.3	24.8
27	25.1	20.0	24.8	22.8	17.8	14.3	25.0	23.7	---	---	28.2	25.6
28	22.4	17.5	24.3	22.3	17.3	15.4	26.4	24.3	---	---	28.3	24.7
29	21.8	18.4	24.0	22.3	18.8	17.2	26.6	24.5	---	---	27.9	24.8
30	22.0	18.8	24.6	22.6	19.0	18.0	26.2	24.7	---	---	27.7	25.8
31	22.2	20.1	---	---	19.4	18.2	26.1	24.4	---	---	27.7	26.0
MONTH	29.6	17.5	25.8	20.4	26.4	14.3	26.6	10.3	---	---	28.6	12.5

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	28.1	26.0	29.6	28.1	31.8	27.9	28.1	26.6	---	---	30.9	28.5
2	27.6	26.3	29.5	28.1	31.0	28.5	28.2	26.2	---	---	31.2	28.9
3	27.3	26.0	29.8	28.3	31.6	28.9	28.9	26.1	---	---	30.2	28.7
4	28.1	25.0	30.8	29.0	30.6	29.4	29.2	26.7	31.1	28.4	30.0	28.0
5	27.7	25.4	32.0	29.2	30.5	28.8	29.7	26.4	30.1	28.4	29.4	28.1
6	27.0	23.0	31.8	28.7	31.1	28.9	29.2	26.4	---	---	29.1	27.4
7	25.8	21.3	31.3	28.3	30.5	29.2	29.8	26.3	---	---	29.5	27.4
8	24.7	21.7	31.4	28.4	29.9	27.9	29.4	26.5	30.9	27.0	29.6	27.4
9	25.0	23.1	31.1	27.9	30.2	27.4	30.0	26.4	30.0	27.3	30.5	27.7
10	26.0	24.2	31.5	28.6	30.0	27.2	28.2	26.5	29.9	27.2	29.8	28.4
11	26.7	24.5	31.1	28.7	30.5	27.4	28.9	26.6	29.5	27.5	29.0	27.1
12	26.2	24.9	30.1	28.1	29.9	27.9	29.7	27.2	29.8	28.0	27.2	26.3
13	26.2	24.1	30.0	28.3	31.9	28.6	29.0	27.1	29.2	28.1	27.7	26.1
14	26.9	24.5	29.9	28.6	30.8	29.0	---	---	30.4	27.7	29.2	26.0
15	28.0	24.7	29.4	27.3	30.2	28.4	---	---	31.5	28.3	29.8	26.9
16	28.8	25.7	28.2	26.2	29.4	28.3	31.3	29.3	32.1	29.0	31.1	28.0
17	29.4	26.2	28.7	26.8	29.6	28.1	31.0	28.8	31.4	29.1	32.3	28.2
18	29.1	26.0	29.1	27.3	30.1	27.5	31.6	29.5	31.6	29.1	32.3	28.6
19	28.9	26.1	29.1	27.0	31.4	27.7	32.2	29.6	31.8	29.4	31.2	28.8
20	29.5	25.9	29.5	25.7	29.1	27.2	32.3	29.6	31.8	29.7	30.6	28.8
21	29.2	26.5	29.0	23.7	29.2	26.3	30.1	28.1	31.3	29.1	30.6	28.6
22	29.5	26.9	28.5	23.7	27.7	26.4	30.9	28.1	32.2	28.3	30.6	28.6
23	30.0	27.5	27.8	23.1	28.2	25.9	31.2	28.2	32.2	28.4	29.4	28.4
24	30.4	26.9	27.0	23.8	28.1	25.8	31.0	29.0	32.2	28.8	29.5	27.8
25	30.2	27.0	26.5	24.3	28.3	26.0	31.0	29.0	31.7	29.4	29.3	27.7
26	29.9	28.3	26.3	24.8	28.5	26.2	30.6	29.0	31.4	29.8	29.0	27.8
27	30.0	28.1	27.5	24.8	29.1	26.4	---	---	30.3	28.8	29.8	27.8
28	29.8	28.2	28.0	25.6	29.2	26.4	---	---	30.5	28.3	30.3	28.3
29	29.9	28.6	28.7	26.0	28.4	26.4	30.0	28.5	29.7	28.1	32.4	28.6
30	31.0	28.1	29.2	27.0	29.1	26.6	30.3	28.9	31.9	28.4	30.8	28.4
31	---	---	29.0	27.5	---	---	---	---	31.4	28.4	---	---
MONTH	31.0	21.3	32.0	23.1	31.9	25.8	---	---	---	---	32.4	26.0

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL

LOCATION.--Lat 27°03'06", long 81°47'05" (1927 North American datum), in SE¹/₄ 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 Ogdens.

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

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	930	273	40	33	28	56	16	7.6	57	1910	877	282
2	812	244	38	33	28	54	15	6.7	76	2590	715	280
3	710	218	39	38	27	52	15	6.0	89	2320	659	255
4	617	201	34	39	25	49	19	5.5	80	2010	619	291
5	521	202	33	39	24	45	18	4.7	72	1870	598	302
6	453	201	31	42	23	40	17	4.1	74	1750	571	334
7	399	184	30	48	22	40	17	3.8	160	1670	560	357
8	365	170	31	51	26	41	15	3.6	162	1640	570	373
9	316	155	32	55	23	36	14	3.0	229	1620	519	327
10	287	137	34	49	24	34	14	2.3	220	1440	460	275
11	263	126	36	48	29	31	13	2.2	231	1280	395	267
12	239	119	36	46	29	27	12	2.1	258	1100	342	344
13	208	112	38	45	28	26	14	2.1	268	995	304	375
14	180	104	34	43	28	23	19	2.1	305	963	264	397
15	163	98	33	58	27	21	26	2.1	322	943	250	398
16	154	90	32	60	27	19	27	2.4	433	917	256	341
17	143	84	33	71	25	17	28	3.4	587	860	241	297
18	135	81	35	74	24	16	34	4.2	637	789	224	245
19	136	76	36	68	23	14	57	41	680	739	232	207
20	155	72	34	61	21	14	39	79	881	658	192	185
21	167	67	33	55	19	14	23	54	1020	634	221	174
22	241	64	30	51	20	15	21	64	1130	716	332	153
23	322	62	30	47	32	14	17	45	1070	768	345	146
24	362	59	30	43	47	13	15	44	1350	820	329	200
25	295	55	29	39	65	12	14	33	2090	847	285	239
26	343	54	33	36	66	12	13	30	1980	810	221	258
27	466	52	30	34	64	16	11	28	1960	737	188	252
28	488	49	30	33	60	26	11	29	1890	668	243	218
29	471	46	30	38	---	30	9.5	23	1750	620	282	189
30	390	43	31	31	---	28	8.5	22	1680	962	282	196
31	324	---	32	29	---	21	---	32	---	1050	289	---
TOTAL	11055	3498	1027	1437	884	856	572.0	591.9	21741	36696	11865	8157
MEAN	357	117	33.1	46.4	31.6	27.6	19.1	19.1	725	1184	383	272
MAX	930	273	40	74	66	56	57	79	2090	2590	877	398
MIN	135	43	29	29	19	12	8.5	2.1	57	620	188	146
CFSM	1.53	0.50	0.14	0.20	0.14	0.12	0.08	0.08	3.11	5.08	1.64	1.17
IN.	1.77	0.56	0.16	0.23	0.14	0.14	0.09	0.09	3.47	5.86	1.89	1.30
*PREC	3.38	0.09	0.74	1.35	1.95	0.67	1.96	7.42	4.42	3.96	5.04	3.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	281	85.3	58.0	86.4	125	161	63.4	36.4	258	369	400	483
MAX	1117	367	462	613	984	895	285	284	1608	1196	1193	1546
(WY)	1980	1999	1998	1998	1983	1984	1987	1991	1982	1968	1995	1979
MIN	21.4	7.86	4.66	4.08	5.80	4.35	3.07	1.21	3.88	27.2	78.7	93.2
(WY)	1985	1982	1982	1965	1968	1968	1964	1985	1964	1981	1996	1968

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1964 - 2002
ANNUAL TOTAL	95101.65	98379.9	
ANNUAL MEAN	261	270	201
HIGHEST ANNUAL MEAN			457
LOWEST ANNUAL MEAN			80.6
HIGHEST DAILY MEAN	2470	2590	4870
LOWEST DAILY MEAN	0.45	2.1	0.00
ANNUAL SEVEN-DAY MINIMUM	0.88	2.2	0.04
MAXIMUM PEAK FLOW		2680	5320
MAXIMUM PEAK STAGE		11.87	14.19
ANNUAL RUNOFF (CFSM)	1.12	1.16	0.86
ANNUAL RUNOFF (INCHES)	15.18	15.71	11.71
10 PERCENT EXCEEDS	920	797	605
50 PERCENT EXCEEDS	52	62	60
90 PERCENT EXCEEDS	3.3	15	7.0

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), PERIOD DECEMBER 2001 TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	1530	1210	473	370	355	341	---	---
2	---	---	---	---	1620	1240	370	322	368	354	---	---
3	---	---	---	---	1240	961	328	317	368	349	---	---
4	---	---	---	---	961	898	341	328	349	339	---	---
5	---	---	---	---	921	903	368	341	349	341	---	---
6	---	---	---	---	1030	793	396	368	358	349	---	---
7	---	---	---	---	829	678	416	396	359	329	---	---
8	---	---	---	---	815	751	440	416	332	322	---	---
9	---	---	---	---	838	749	469	440	341	332	---	---
10	---	---	---	---	949	836	482	467	358	339	---	---
11	---	---	---	---	890	300	482	473	370	358	---	---
12	---	---	---	---	300	275	491	475	389	370	---	---
13	---	---	---	---	275	257	498	467	415	389	---	---
14	---	---	---	---	266	256	467	401	428	415	---	---
15	---	---	---	---	274	256	401	361	436	424	---	---
16	---	---	---	---	288	247	380	361	467	434	---	---
17	---	---	---	---	288	269	416	380	---	---	---	---
18	---	---	---	---	368	270	423	411	---	---	---	---
19	---	---	---	---	369	342	481	419	---	---	---	---
20	---	---	---	---	342	309	500	481	---	---	---	---
21	---	---	---	---	309	284	504	410	---	---	---	---
22	---	---	---	---	287	271	410	391	---	---	---	---
23	---	---	---	---	271	257	400	385	---	---	---	---
24	---	---	1340	1230	517	164	405	379	---	---	---	---
25	---	---	1250	1200	518	438	410	400	---	---	---	---
26	---	---	1250	1180	563	513	413	399	---	---	---	---
27	---	---	1280	1220	571	536	419	413	---	---	---	---
28	---	---	1440	1240	552	529	426	414	---	---	---	---
29	---	---	1370	1330	540	523	427	353	---	---	---	---
30	---	---	1410	1330	523	467	369	260	---	---	---	---
31	---	---	1360	1120	---	---	341	278	---	---	---	---
MONTH	---	---	---	---	1620	164	504	260	---	---	---	---

PEACE RIVER BASIN

02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL--Continued

TEMPERATURE, WATER (DEG. C), PERIOD DECEMBER 2001 TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	17.8	16.6	---	---	17.9	16.1
2	---	---	---	---	---	---	17.2	16.6	---	---	21.2	17.1
3	---	---	---	---	---	---	17.1	14.9	---	---	24.0	20.3
4	---	---	---	---	24.7	20.2	14.9	12.5	---	---	23.2	17.4
5	---	---	---	---	23.2	18.7	14.5	11.4	---	---	18.4	15.1
6	---	---	---	---	23.6	21.3	16.4	14.4	---	---	18.7	16.7
7	---	---	---	---	23.5	22.1	16.4	14.7	---	---	18.3	17.1
8	---	---	---	---	24.4	22.6	14.7	12.4	---	---	21.7	17.2
9	---	---	---	---	24.7	23.0	13.8	11.6	---	---	23.6	19.4
10	---	---	---	---	24.9	23.1	14.2	11.9	---	---	24.6	20.6
11	---	---	---	---	24.4	22.6	15.4	13.0	---	---	24.1	20.8
12	---	---	---	---	24.6	23.1	16.3	14.1	---	---	25.0	21.8
13	---	---	---	---	24.1	22.3	18.0	16.2	---	---	25.0	22.6
14	---	---	---	---	24.7	23.0	18.7	16.7	---	---	24.7	21.2
15	---	---	---	---	24.7	23.0	19.3	18.2	---	---	25.7	21.6
16	---	---	---	---	24.6	23.3	19.3	17.4	---	---	26.7	21.1
17	---	---	---	---	24.5	23.4	20.4	18.6	---	---	26.3	20.6
18	---	---	---	---	23.7	22.5	20.7	19.3	---	---	---	---
19	---	---	---	---	22.5	20.5	21.0	18.6	---	---	---	---
20	---	---	---	---	21.0	19.5	22.0	20.1	---	---	---	---
21	---	---	---	---	19.5	17.6	22.5	21.1	---	---	---	---
22	---	---	---	---	19.0	17.5	22.5	21.9	---	---	---	---
23	---	---	---	---	19.5	17.8	23.2	21.8	---	---	---	---
24	---	---	---	---	20.8	19.4	23.0	21.7	---	---	---	---
25	---	---	---	---	20.2	18.0	22.9	21.4	---	---	---	---
26	---	---	---	---	18.0	16.3	---	---	21.1	18.4	---	---
27	---	---	---	---	16.3	15.1	---	---	20.1	17.6	---	---
28	---	---	---	---	17.2	15.2	---	---	18.5	14.7	---	---
29	---	---	---	---	19.0	17.2	---	---	---	---	---	---
30	---	---	---	---	18.3	17.3	---	---	---	---	---	---
31	---	---	---	---	18.0	17.6	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	30.6	27.0	28.5	27.0	32.2	30.6	---	---
2	---	---	---	---	31.5	28.3	29.0	26.6	31.4	29.9	---	---
3	---	---	---	---	31.6	28.6	30.6	28.3	30.5	29.0	---	---
4	---	---	---	---	31.2	29.1	31.0	29.5	31.4	29.9	---	---
5	---	---	---	---	30.4	28.3	30.8	29.5	31.5	30.1	---	---
6	---	---	---	---	30.9	28.2	29.9	28.9	31.6	30.9	---	---
7	---	---	---	---	29.0	26.6	29.6	28.3	30.9	29.0	---	---
8	---	---	---	---	28.9	27.3	28.9	28.3	30.0	28.0	---	---
9	---	---	---	---	28.8	26.3	28.5	28.0	30.4	29.1	---	---
10	---	---	---	---	28.7	26.7	28.5	27.7	30.3	28.9	---	---
11	---	---	---	---	29.7	27.2	29.2	28.0	30.0	28.9	---	---
12	---	---	---	---	29.8	27.7	29.6	28.7	31.1	28.5	---	---
13	---	---	---	---	29.7	28.3	29.4	28.7	30.3	29.0	---	---
14	---	---	---	---	29.3	28.4	30.3	28.9	31.1	28.1	---	---
15	---	---	---	---	29.1	28.3	31.5	30.1	31.6	28.8	---	---
16	---	---	---	---	28.6	27.9	32.9	31.2	30.7	29.2	---	---
17	---	---	---	---	28.3	27.8	33.0	31.9	---	---	---	---
18	---	---	---	---	28.2	27.8	32.0	31.0	---	---	---	---
19	---	---	---	---	28.1	27.8	32.1	31.3	---	---	---	---
20	---	---	---	---	27.9	27.4	32.5	31.1	---	---	---	---
21	---	---	---	---	27.4	26.8	31.5	29.5	---	---	---	---
22	---	---	---	---	26.9	26.3	30.0	28.8	---	---	---	---
23	---	---	---	---	26.4	25.8	31.1	29.6	---	---	---	---
24	---	---	---	---	26.4	26.1	32.0	30.8	---	---	---	---
25	---	---	---	---	27.4	26.1	32.1	31.1	---	---	---	---
26	---	---	27.2	24.3	28.6	26.8	31.6	30.6	---	---	---	---
27	---	---	29.4	24.4	30.1	27.9	32.0	30.6	---	---	---	---
28	---	---	29.7	25.1	30.2	28.7	32.3	30.4	---	---	---	---
29	---	---	30.3	24.4	30.1	29.0	31.8	29.7	---	---	---	---
30	---	---	30.9	25.5	29.9	28.5	29.8	27.3	---	---	---	---
31	---	---	30.5	25.7	---	---	30.9	28.6	---	---	---	---
MONTH	---	---	---	---	31.6	25.8	33.0	26.6	---	---	---	---

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV 29...	0900	3.79	46	7.0	7.4	915	21.1	E1.0	.09	.260	.02	.060	E.05
JAN 29...	0912	3.79	44	7.2	7.8	1290	21.6	1.1	.05	.310	<.01	.050	.05
MAR 27...	0930	3.09	15	6.8	8.5	1160	24.1	.90	.03	.370	.01	.030	.03
MAY 15...	0942	2.56	2.1	7.5	7.8	1190	25.0	1.3	.04	<.020	<.01	.050	.05
JUL 17...	0939	9.74	860	2.6	6.2	386	32.7	2.1	.14	.060	.03	.370	.42
SEP 04...	0934	7.00	289	5.2	6.0	544	30.2	1.7	.06	.280	.02	.070	.12

Remark codes used in this report:

< -- Less than

E -- Estimated value

PEACE RIVER BASIN

02298202 SHELL CREEK NEAR PUNTA GORDA, FL

LOCATION.--Lat 26°59'04", long 81°56'09" (1927 North American datum), in NW¹/₄ 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.

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

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

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

REMARKS.--Records good. Flow regulated by concrete dam. Diversion by city of Punta Gorda for water supply.

REVISIONS.--Water year 1998 adjusted mean 1.28 ft³/s is in error. Corrected number is 128 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1640	399	94	40	58	74	38	7.3	64	2510	1520	591
2	1470	362	91	30	50	64	31	5.2	68	3970	1400	508
3	1280	329	76	58	50	85	35	5.2	70	3850	1170	447
4	1090	294	69	62	47	80	38	5.9	75	3240	1020	419
5	922	290	59	66	38	73	37	6.4	69	2680	924	481
6	782	293	50	123	31	68	36	7.8	61	2410	870	583
7	699	278	50	128	30	66	26	4.9	81	2330	850	604
8	637	254	68	120	34	73	12	3.5	166	2140	987	584
9	594	247	89	108	39	69	4.6	1.6	206	2050	922	577
10	536	242	119	106	37	64	7.0	0.87	259	2000	774	520
11	509	236	131	93	38	55	13	0.54	283	1780	658	715
12	482	224	97	90	38	44	31	0.07	274	1550	589	978
13	466	215	44	88	38	38	113	0.04	292	1410	518	869
14	450	218	43	92	40	41	106	0.27	330	1300	465	905
15	426	221	58	114	38	37	161	1.3	390	1210	417	810
16	422	216	44	107	39	36	126	3.0	457	1160	384	700
17	403	198	36	100	36	32	113	48	592	1100	339	580
18	374	180	40	102	31	24	104	67	755	1070	323	476
19	380	173	33	100	24	20	88	332	815	1110	353	376
20	457	168	20	93	21	16	93	462	1030	1030	343	320
21	430	159	22	90	22	13	78	375	1630	922	682	270
22	510	156	19	86	61	12	64	285	1970	954	737	231
23	697	152	29	90	119	13	52	228	1720	1040	688	202
24	744	138	41	114	105	11	40	172	1580	1080	600	214
25	668	124	47	130	94	9.7	27	134	2280	1130	511	275
26	622	118	54	137	93	19	24	104	2900	1570	432	334
27	688	115	48	124	85	26	20	81	2710	2280	387	396
28	697	108	43	69	81	29	16	53	2440	1580	600	379
29	659	96	56	58	---	35	14	52	2140	1140	1070	341
30	546	93	62	63	---	42	11	48	1980	1090	1040	329
31	463	---	73	64	---	47	---	47	---	1390	736	---
TOTAL	20743	6296	1805	2845	1417	1315.7	1558.6	2541.89	27687	54076	22309	15014
MEAN	669	210	58.2	91.8	50.6	42.4	52.0	82.0	923	1744	720	500
MAX	1640	399	131	137	119	85	161	462	2900	3970	1520	978
MIN	374	93	19	30	21	9.7	4.6	0.04	61	922	323	202
(+)	7.4	8.3	7.3	6.5	6.1	6.9	6.7	6.8	4.8	4.2	5.9	5.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	446	145	109	147	168	233	102	79.4	451	645	683	756
MAX	1707	601	573	902	1391	1320	499	524	2253	2485	2028	2325
(WY)	1996	1969	1998	1970	1983	1984	1970	1991	1982	1974	1995	1979
MIN	50.7	13.8	7.51	0.000	0.000	9.08	0.20	0.000	11.1	87.4	157	210
(WY)	1973	1991	1991	1965	1965	1981	1975	1967	2000	1981	1972	1972

ADJUSTED FOR DIVERSION BY CITY OF PUNTA GORDA

MEAN	676	218.3	65.5	98.3	56.7	49.3	59	88.8	928	1748	726	506
CFSM	1.81	0.59	0.18	0.26	0.15	0.13	0.16	0.24	2.49	4.69	1.95	1.36
IN	2.09	0.65	0.20	0.30	0.16	0.15	0.18	0.27	2.78	5.40	2.24	1.51

OBSERVED

ADJUSTED

CAL YR 2001 TOTAL 180623.69 MEAN 495 MAX 5860 MIN 0.00 MEAN 500 CFSM 1.34 IN 18.24
WTR YR 2002 TOTAL 157580.09 MEAN 432 MAX 3970 MIN 0.04 MEAN 438 CFSM 1.17 IN 15.95

† 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

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

LOCATION.--Lat 26°58'18", long 81°58'10" (1927 North American datum), in NE $\frac{1}{4}$ 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.59 ft, Sept. 14, 2001; minimum, 6.59 ft, Oct. 23, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.76 ft, Sept. 5; minimum, 6.63 ft, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.25	8.41	10.47	8.13	---	---	10.60	7.54	10.10	7.81	9.46	7.68
2	10.50	8.52	10.81	8.10	---	---	10.18	7.89	9.59	7.90	11.13	8.08
3	10.58	8.59	10.87	8.19	---	---	10.65	7.97	9.92	8.01	10.85	8.83
4	10.74	8.58	10.63	7.71	---	---	9.01	7.00	9.39	8.05	9.27	7.49
5	10.87	8.67	10.64	8.03	---	---	9.90	7.96	9.75	7.20	8.71	6.63
6	11.06	8.76	10.42	8.15	---	---	10.79	8.66	10.62	7.69	9.52	6.93
7	11.11	8.57	10.28	8.15	---	---	9.80	8.44	10.80	8.44	10.03	7.55
8	10.21	7.99	10.52	8.36	---	---	---	---	9.85	7.44	9.94	7.70
9	9.61	7.14	10.42	8.32	---	---	---	---	10.06	7.60	9.93	7.79
10	10.04	7.85	10.40	8.42	---	---	---	---	10.14	7.74	9.69	7.58
11	10.67	8.40	10.75	8.92	---	---	---	---	9.95	7.47	9.86	7.22
12	11.05	8.70	10.58	8.56	---	---	---	---	9.98	7.75	10.13	7.99
13	11.46	9.39	10.59	8.25	---	---	---	---	10.01	7.81	10.66	8.47
14	11.50	9.27	10.57	8.22	---	---	---	---	9.66	7.52	9.96	8.12
15	10.97	8.80	10.70	8.25	---	---	---	---	10.00	8.01	9.94	8.16
16	10.76	8.62	10.82	8.03	---	---	---	---	9.98	8.21	10.14	8.20
17	10.38	7.72	10.21	7.43	---	---	---	---	9.68	8.04	9.81	8.03
18	9.70	7.47	10.31	7.48	---	---	---	---	9.41	7.63	10.15	7.98
19	10.55	7.86	10.60	8.01	---	---	---	---	10.10	7.84	10.34	7.83
20	10.95	8.27	---	---	10.24	7.79	---	---	10.80	8.32	10.52	8.06
21	10.69	8.30	---	---	9.28	7.67	---	---	10.20	8.34	10.28	8.29
22	10.77	8.48	---	---	9.88	8.17	---	---	9.99	8.13	9.68	8.03
23	10.95	8.87	---	---	10.65	8.70	---	---	9.89	7.80	9.92	7.13
24	10.93	9.26	---	---	10.65	8.89	---	---	10.26	7.58	10.40	7.43
25	10.76	8.84	---	---	10.10	8.25	10.55	7.93	10.36	7.57	10.40	7.97
26	10.42	8.07	---	---	10.03	8.04	10.19	7.63	10.71	8.10	10.29	7.89
27	9.26	7.84	---	---	10.69	7.82	10.29	7.45	11.03	8.00	10.25	7.93
28	9.22	7.96	---	---	10.97	8.17	10.40	7.60	9.73	7.72	10.06	7.97
29	9.46	8.11	---	---	11.28	8.69	10.49	7.70	---	---	10.05	8.03
30	9.69	8.14	---	---	10.93	7.96	10.43	7.68	---	---	10.54	8.06
31	10.05	8.19	---	---	10.68	7.85	10.31	7.84	---	---	10.86	8.33
MONTH	11.50	7.14	10.87	7.43	11.28	7.67	10.79	7.00	11.03	7.20	11.13	6.63

PEACE RIVER BASIN

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

WATER-QUALITY RECORDS

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

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located 1.7 ft below the surface and 1.0 ft above the bottom.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 39,600 microsiemens, June 4, 2000; bottom sensor maximum, 46,800 microsiemens, June 5, 2000; top sensor minimum, 155 microsiemens, Sept. 28, 1997; bottom sensor minimum, 179 microsiemens, Sept. 28, 1997.

TEMPERATURE.--Top sensor maximum, 36.0°C, June 4, 2000; bottom sensor maximum, 33.8°C, July 3, 4, 29, 30, 1998; top sensor minimum, 11.8°C, Jan. 5, 2001; bottom sensor minimum, 11.7°C, Jan. 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 29,100 microsiemens, May 30; bottom sensor maximum, 29,600 microsiemens, May 30; top sensor minimum, 325 microsiemens, July 2; bottom sensor minimum, 324 microsiemens, July 3.

TEMPERATURE.--Top sensor maximum, 32.8°C, July 25; bottom sensor maximum, 32.3°C, July 18; top sensor minimum, 13.3°C, Jan. 9; bottom sensor minimum, 13.2°C, Jan. 9.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(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	440	422	762	716	---	---	19400	7710	14800	6870	4720	2560
2	474	423	2120	716	---	---	16700	7140	12300	6460	16400	2580
3	492	442	3410	722	---	---	19500	7300	12600	6150	10300	2990
4	485	456	2410	728	---	---	10400	4790	9890	6700	3880	1880
5	503	468	2480	746	---	---	13600	5670	12500	5430	2890	1600
6	522	487	1240	752	---	---	23200	6610	23300	5120	3840	1690
7	561	515	1780	762	---	---	13700	6210	23200	6280	13500	1780
8	594	542	6490	789	---	---	13300	4320	13300	6290	11800	2290
9	628	566	6880	849	---	---	13600	4270	15200	6550	11800	3060
10	649	596	6540	890	---	---	16800	4360	15600	7230	11300	3390
11	662	615	10200	1110	---	---	17900	4690	15500	7340	14600	3960
12	1080	631	9000	1010	---	---	17900	4860	15200	7630	19000	5970
13	2900	646	8810	944	---	---	21400	5390	15000	7700	23200	8750
14	2930	670	8240	968	---	---	15900	5790	13700	6810	16200	6350
15	1470	655	9550	982	---	---	21200	5320	14300	6810	15300	6950
16	1060	672	10300	967	---	---	10700	4360	14200	6780	16500	7820
17	809	684	6060	920	---	---	10700	3880	12900	7030	14200	7550
18	761	706	6560	963	---	---	9650	3490	12400	6420	15900	7100
19	1680	725	10400	1410	---	---	8760	3030	15500	6590	18200	7660
20	1300	657	---	---	10000	5080	7960	2770	21800	6550	19900	8160
21	800	649	---	---	10000	5140	6770	2790	16200	7540	18500	8650
22	931	634	---	---	11300	5460	7180	2230	16100	7060	15400	8440
23	669	628	---	---	19000	5910	10800	2340	13800	6330	16500	8040
24	667	622	---	---	19100	7530	16900	3220	11500	4630	22400	9100
25	661	623	---	---	13800	6470	17600	5860	11300	4350	22700	10800
26	646	607	---	---	13000	6610	15400	6710	9140	4830	21300	11300
27	643	611	---	---	18800	6750	15900	7950	7560	3820	20500	12300
28	637	588	---	---	21100	7730	16500	8050	5900	2960	19300	12700
29	614	567	---	---	24200	9390	17100	7900	---	---	19200	12000
30	677	613	---	---	22000	8060	16400	7650	---	---	23000	11900
31	717	677	---	---	20200	8430	15800	7450	---	---	25100	12800
MONTH	2930	422	10400	716	24200	5080	23200	2230	23300	2960	25100	1600

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

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

GAGE HEIGHT, FEET, PERIOD DECEMBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	41.55	41.54	40.26	39.94	39.80	41.12	43.60	43.07	43.46
2	---	---	---	41.37	41.50	40.28	39.92	39.92	40.58	43.96	42.58	43.37
3	---	---	---	42.36	41.48	40.34	39.90	39.88	40.68	43.94	42.23	43.06
4	---	---	---	42.38	41.38	40.21	39.88	39.94	41.82	43.48	41.98	42.66
5	---	---	---	42.18	41.27	40.28	39.86	39.97	41.57	43.14	42.20	42.35
6	---	---	---	41.56	41.10	40.60	39.84	39.92	41.44	42.93	43.24	42.12
7	---	---	---	40.94	40.94	40.47	39.82	39.97	41.22	42.74	43.84	41.96
8	---	---	---	40.84	40.85	40.53	39.80	40.03	41.07	42.52	43.63	41.90
9	---	---	---	40.77	40.90	40.78	39.80	40.16	41.01	42.17	43.27	41.83
10	---	---	---	40.87	40.91	40.91	39.78	40.96	40.84	41.95	42.92	41.84
11	---	---	---	40.83	40.87	41.04	39.77	40.70	40.65	41.87	42.68	41.78
12	---	---	---	40.76	40.85	40.86	39.75	40.50	40.49	41.98	42.53	41.71
13	---	---	---	40.68	41.01	40.99	39.73	40.45	40.77	42.94	42.51	41.60
14	---	---	---	40.67	40.97	41.07	39.73	40.32	42.69	42.66	42.32	41.32
15	---	---	---	40.86	40.96	41.20	39.71	40.28	41.97	42.44	41.95	41.19
16	---	---	---	40.92	40.94	40.88	39.72	40.18	42.28	42.28	41.87	41.09
17	---	---	---	41.06	40.93	40.69	39.74	40.07	43.35	42.35	41.83	41.03
18	---	---	---	41.06	40.74	40.45	39.78	40.10	44.99	42.49	41.96	40.97
19	---	---	---	41.02	40.61	40.37	39.74	40.17	44.18	42.46	41.88	41.06
20	---	---	---	41.10	40.54	40.46	39.71	39.98	43.75	42.36	42.17	41.89
21	---	---	---	41.38	40.57	40.56	39.70	39.90	43.46	42.13	42.25	42.17
22	---	---	---	41.43	40.66	40.53	39.69	39.93	43.28	41.61	42.73	42.04
23	---	---	40.57	41.14	40.66	40.37	39.68	40.03	43.10	41.83	44.14	41.71
24	---	---	40.62	42.42	40.40	40.25	39.67	40.05	43.12	42.33	44.12	41.37
25	---	---	40.64	42.49	40.24	40.22	39.66	39.86	43.18	42.04	43.73	41.20
26	---	---	40.68	42.22	40.20	40.50	39.65	39.77	43.43	41.63	43.34	41.33
27	---	---	41.01	42.01	40.19	40.76	39.82	39.71	43.45	41.77	43.02	41.94
28	---	---	41.55	41.88	40.21	40.74	39.76	39.80	43.76	43.39	42.94	43.95
29	---	---	41.88	41.70	---	40.57	39.72	39.88	43.72	43.15	42.95	43.72
30	---	---	41.98	41.62	---	40.10	39.74	40.68	43.78	42.73	42.67	43.28
31	---	---	41.80	41.55	---	39.98	---	41.99	---	43.06	42.53	---
MEAN	---	---	---	41.41	40.84	40.56	39.77	40.16	42.36	42.58	42.74	42.03
MAX	---	---	---	42.49	41.54	41.20	39.94	41.99	44.99	43.96	44.14	43.95
MIN	---	---	---	40.67	40.19	39.98	39.65	39.71	40.49	41.61	41.83	40.97

MYAKKA RIVER BASIN

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	4.7	9.8	11	8.3	4.9	1.2	0.53	0.31	1.5	25	5.7
2	109	9.9	8.4	10	7.6	4.2	0.99	0.57	0.30	1.7	21	4.7
3	69	11	7.5	9.1	7.4	3.6	0.87	0.55	0.20	1.0	30	4.0
4	62	10	6.9	9.4	7.0	3.5	0.82	0.72	0.14	1.4	46	3.3
5	204	8.3	6.3	8.1	6.3	4.0	0.80	0.75	0.33	4.2	27	3.6
6	190	6.9	5.8	8.2	6.5	3.5	0.72	0.53	0.37	2.2	21	3.6
7	128	5.9	5.6	35	6.4	2.9	0.78	0.60	0.28	2.4	20	37
8	84	5.3	5.3	30	5.6	2.0	0.83	0.50	0.41	2.4	17	394
9	77	4.7	5.0	22	5.0	2.3	0.72	0.77	0.26	3.3	13	209
10	63	4.3	5.4	19	4.9	3.3	0.76	0.72	0.21	2.8	12	107
11	51	4.0	6.0	19	6.0	3.0	0.51	0.55	0.19	2.0	25	54
12	83	3.7	6.3	14	5.6	3.0	0.48	0.46	0.32	1.6	49	34
13	56	3.5	6.3	11	4.7	2.7	0.49	0.39	0.76	1.2	83	25
14	39	3.6	6.0	9.1	4.8	3.0	6.2	0.36	0.38	1.5	47	19
15	28	4.1	5.2	8.2	4.6	3.0	7.3	0.33	0.30	5.4	34	16
16	24	3.5	4.7	7.8	4.7	2.4	4.8	0.29	0.40	11	27	40
17	23	3.2	7.7	7.0	3.9	2.0	3.3	0.27	0.39	6.9	22	528
18	19	3.0	22	7.5	3.5	2.6	2.3	0.39	1.2	4.3	16	648
19	16	2.8	58	6.5	5.0	11	1.8	0.86	0.62	3.5	12	213
20	14	2.7	43	6.0	5.8	6.0	1.5	0.50	0.48	3.0	8.9	125
21	13	2.6	31	5.7	4.7	3.7	1.2	0.68	0.62	2.9	6.9	154
22	12	2.6	26	5.3	3.6	2.7	1.1	0.36	0.94	37	5.6	127
23	10	2.5	23	5.0	3.0	2.1	0.93	0.32	0.69	48	4.8	146
24	8.7	2.5	19	10	3.5	1.8	0.89	0.32	0.63	56	4.4	98
25	7.9	7.1	13	12	3.5	1.6	0.84	0.29	0.65	52	3.9	60
26	7.2	60	11	10	2.8	1.4	0.76	0.28	1.9	42	3.2	69
27	6.5	36	11	8.8	2.8	1.5	0.71	0.23	1.9	34	2.7	73
28	5.6	21	13	8.1	2.8	2.0	0.67	0.31	1.4	30	2.1	53
29	5.0	15	13	7.7	3.8	1.8	0.64	0.24	1.0	21	3.2	39
30	4.8	12	12	7.2	---	1.5	0.58	0.19	0.85	27	12	31
31	4.5	---	12	7.0	---	1.3	---	0.30	---	40	8.0	---
TOTAL	1489.2	266.4	415.2	344.7	144.1	94.3	45.49	14.16	18.43	453.2	612.7	3323.9
MEAN	48.0	8.88	13.4	11.1	4.97	3.04	1.52	0.46	0.61	14.6	19.8	111
MAX	204	60	58	35	8.3	11	7.3	0.86	1.9	56	83	648
MIN	4.5	2.5	4.7	5.0	2.8	1.3	0.48	0.19	0.14	1.0	2.1	3.3
CFSM	1.65	0.30	0.46	0.38	0.17	0.10	0.05	0.02	0.02	0.50	0.68	3.79
IN.	1.90	0.34	0.53	0.44	0.18	0.12	0.06	0.02	0.02	0.58	0.78	4.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	1999	1999	1999	2000	1999	1999	2000	2000	1999
MEAN	48.0	8.88	13.4	15.9	7.70	5.28	1.32	2.60	48.0	40.8	50.5	79.9
MAX	48.0	8.88	13.4	20.7	10.5	7.51	1.52	4.74	95.4	67.0	81.2	111
(WY)	2000	2000	2000	1999	1999	1999	2000	1999	1999	1999	1999	2000
MIN	48.0	8.88	13.4	11.1	4.97	3.04	1.12	0.46	0.61	14.6	19.8	49.0
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL TOTAL	12445.74	7221.78		
ANNUAL MEAN	34.10	19.73		
HIGHEST ANNUAL MEAN			19.7	2000
LOWEST ANNUAL MEAN			19.7	2000
HIGHEST DAILY MEAN	639	Jun 18	648	Sep 18 2000
LOWEST DAILY MEAN	0.53	Apr 26	0.14	Jun 4 2000
ANNUAL SEVEN-DAY MINIMUM	0.66	Apr 20	0.24	May 29 2000
MAXIMUM PEAK FLOW			1070	Sep 17 2000
MAXIMUM PEAK STAGE			45.57	Sep 17 2000
ANNUAL RUNOFF (CFSM)	1.17		0.68	
ANNUAL RUNOFF (INCHES)	15.86		9.20	
10 PERCENT EXCEEDS	56		47	
50 PERCENT EXCEEDS	12		4.9	
90 PERCENT EXCEEDS	2.1		0.50	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.88	40.37	40.82	40.90	40.71	40.39	39.93	39.69	39.58	39.81	41.83	40.51
2	43.31	40.83	40.71	40.86	40.65	40.31	39.90	39.69	39.57	39.85	41.59	40.41
3	42.94	40.95	40.64	40.77	40.63	40.25	39.88	39.69	39.52	39.75	42.07	40.33
4	42.84	40.84	40.58	40.79	40.60	40.24	39.87	39.72	39.49	39.79	42.52	40.25
5	43.85	40.70	40.53	40.69	40.53	40.29	39.87	39.73	39.57	40.15	41.92	40.28
6	43.80	40.59	40.49	40.70	40.56	40.23	39.85	39.68	39.59	39.92	41.63	40.28
7	43.44	40.50	40.46	42.07	40.54	40.17	39.86	39.70	39.56	39.94	41.57	41.19
8	43.11	40.43	40.44	41.91	40.47	40.06	39.87	39.67	39.60	39.95	41.36	44.50
9	43.04	40.37	40.41	41.54	40.40	40.09	39.85	39.73	39.55	40.06	41.12	43.87
10	42.86	40.33	40.44	41.43	40.39	40.21	39.85	39.72	39.53	39.99	41.03	43.29
11	42.62	40.29	40.51	41.38	40.50	40.18	39.80	39.67	39.52	39.90	41.84	42.69
12	43.10	40.26	40.54	41.09	40.47	40.18	39.79	39.65	39.57	39.83	42.28	42.21
13	42.71	40.24	40.54	40.88	40.38	40.14	39.79	39.63	39.69	39.78	43.08	41.82
14	42.25	40.24	40.50	40.77	40.39	40.18	40.44	39.62	39.60	39.82	42.53	41.49
15	41.80	40.31	40.43	40.70	40.36	40.18	40.52	39.61	39.57	40.25	42.21	41.30
16	41.63	40.24	40.37	40.67	40.38	40.11	40.27	39.59	39.60	40.81	41.93	42.34
17	41.59	40.20	40.65	40.59	40.28	40.05	40.11	39.59	39.59	40.44	41.65	44.26
18	41.40	40.18	41.46	40.64	40.24	40.11	39.99	39.62	39.77	40.17	41.36	44.96
19	41.21	40.16	42.77	40.55	40.40	40.93	39.92	39.74	39.66	40.08	41.06	43.88
20	41.07	40.14	42.41	40.51	40.49	40.50	39.88	39.65	39.63	40.01	40.82	43.42
21	41.02	40.13	41.96	40.47	40.37	40.26	39.84	39.70	39.66	40.00	40.64	43.60
22	40.96	40.13	41.73	40.43	40.24	40.14	39.81	39.61	39.73	42.11	40.50	43.43
23	40.83	40.12	41.62	40.40	40.18	40.07	39.79	39.59	39.68	42.53	40.42	43.56
24	40.73	40.12	41.40	40.85	40.24	40.02	39.77	39.59	39.66	42.73	40.37	43.22
25	40.66	40.45	41.07	41.00	40.24	40.00	39.76	39.58	39.67	42.65	40.31	42.80
26	40.61	42.78	40.94	40.87	40.16	39.98	39.75	39.58	39.88	42.42	40.23	42.92
27	40.53	42.15	40.89	40.75	40.16	39.98	39.73	39.55	39.88	42.20	40.17	42.99
28	40.46	41.50	41.02	40.69	40.15	40.06	39.73	39.58	39.81	42.04	40.10	42.68
29	40.40	41.17	41.05	40.66	40.28	40.02	39.72	39.55	39.75	41.61	40.22	42.31
30	40.38	40.97	40.99	40.62	---	39.99	39.70	39.53	39.72	41.80	41.04	42.01
31	40.35	---	40.95	40.60	---	39.96	---	39.57	---	42.34	40.73	---
MEAN	41.88	40.59	40.95	40.86	40.39	40.17	39.89	39.64	39.64	40.73	41.29	42.43
MAX	43.85	42.78	42.77	42.07	40.71	40.93	40.52	39.74	39.88	42.73	43.08	44.96
MIN	40.35	40.12	40.37	40.40	40.15	39.96	39.70	39.53	39.49	39.75	40.10	40.25

MYAKKA RIVER BASIN

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	2.8	4.6	4.8	3.5	1.6	100	1.7	0.12	105	66	39
2	22	2.7	4.2	5.0	3.6	1.9	53	0.99	0.16	71	94	28
3	22	2.5	4.0	4.9	3.0	1.5	30	0.55	0.17	39	124	26
4	25	2.4	3.9	4.5	2.8	6.5	19	0.53	0.27	24	125	32
5	25	2.3	3.7	4.2	2.8	14	14	0.47	0.57	21	91	39
6	24	2.2	3.4	4.2	3.1	6.6	11	0.42	1.8	17	68	43
7	46	2.2	3.1	4.1	3.4	4.6	8.7	0.40	6.0	17	171	52
8	39	2.1	3.0	3.7	3.3	3.7	7.0	0.45	14	21	171	52
9	32	2.0	2.9	4.1	4.4	3.1	6.0	0.37	7.0	37	98	188
10	26	2.2	2.8	3.7	4.2	2.7	5.1	0.34	3.0	111	67	202
11	22	2.1	2.8	3.5	5.7	2.4	4.4	0.32	1.8	224	80	167
12	18	2.0	3.6	3.9	5.2	2.1	3.6	0.36	1.3	184	94	126
13	17	1.9	3.5	3.9	3.3	2.3	3.0	0.73	1.0	109	79	204
14	15	2.0	3.4	3.4	3.2	2.4	2.8	0.40	0.80	164	57	2000
15	13	2.1	3.1	3.2	4.5	2.7	2.2	0.30	0.80	419	42	2120
16	11	2.0	3.0	3.0	4.4	4.0	1.9	0.26	0.91	206	34	883
17	10	2.0	3.0	2.8	3.8	3.8	1.5	0.24	0.84	173	34	351
18	9.1	2.4	2.8	2.7	3.9	2.0	1.2	0.23	0.72	289	37	204
19	8.2	2.3	2.7	2.7	5.3	2.1	0.95	0.21	0.94	298	41	135
20	7.0	2.2	2.8	3.0	5.1	4.2	1.4	0.20	3.7	263	54	98
21	6.1	2.2	2.7	3.2	2.8	3.4	0.97	0.19	3.0	454	66	80
22	5.6	2.2	2.7	3.0	2.0	2.6	0.69	0.19	3.7	614	48	84
23	5.0	2.0	2.5	3.1	1.8	2.2	0.72	0.19	15	481	36	91
24	4.9	1.9	2.4	3.3	2.2	2.7	0.43	0.17	25	354	30	74
25	4.5	2.0	2.2	3.0	1.8	1.7	1.5	0.16	18	212	25	69
26	4.1	6.3	2.1	2.8	2.2	1.4	e1.4	0.15	11	152	22	66
27	3.9	7.2	2.1	2.9	2.1	1.2	e0.73	0.14	17	114	19	59
28	3.7	6.8	3.6	3.2	1.6	1.3	0.63	0.15	28	90	16	57
29	3.4	6.0	6.7	3.4	---	3.3	0.58	0.19	60	94	14	69
30	3.2	5.2	6.1	3.2	---	135	0.58	0.15	48	83	13	66
31	3.0	---	5.5	3.3	---	144	---	0.13	---	55	22	---
TOTAL	463.7	86.2	104.9	109.7	95.0	373.0	284.98	11.28	274.60	5495	1938	7704
MEAN	15.0	2.87	3.38	3.54	3.39	12.0	9.50	0.36	9.15	177	62.5	257
MAX	46	7.2	6.7	5.0	5.7	144	100	1.7	60	614	171	2120
MIN	3.0	1.9	2.1	2.7	1.6	1.2	0.43	0.13	0.12	17	13	26
CFSM	0.51	0.10	0.12	0.12	0.12	0.41	0.33	0.01	0.31	6.07	2.14	8.79
IN.	0.59	0.11	0.13	0.14	0.12	0.48	0.36	0.01	0.35	7.00	2.47	9.81

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	31.5	5.88	8.39	11.8	6.28	7.53	4.05	1.85	35.1	86.3	54.5	139
MAX	48.0	8.88	13.4	20.7	10.5	12.0	9.50	4.74	95.4	177	81.2	257
(WY)	2000	2000	2000	1999	1999	2001	2001	1999	1999	2001	1999	2001
MIN	15.0	2.87	3.38	3.54	3.39	3.04	1.12	0.36	0.61	14.6	19.8	49.0
(WY)	2001	2001	2001	2001	2001	2000	1999	2001	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1999 - 2001

ANNUAL TOTAL	5705.78	16940.36		
ANNUAL MEAN	15.6	46.4		
HIGHEST ANNUAL MEAN			33.1	
LOWEST ANNUAL MEAN			46.4	2001
HIGHEST DAILY MEAN	648	Sep 18	19.7	2000
LOWEST DAILY MEAN	0.14	Jun 4	2120	Sep 15 2001
ANNUAL SEVEN-DAY MINIMUM	0.24	May 29	0.12	Jun 1 2001
MAXIMUM PEAK FLOW			0.15	May 26 2001
MAXIMUM PEAK STAGE			3420	Sep 14 2001
ANNUAL RUNOFF (CFSM)	0.53		48.36	Sep 14 2001
ANNUAL RUNOFF (INCHES)	7.27		1.59	
10 PERCENT EXCEEDS	31		21.58	
50 PERCENT EXCEEDS	3.5		69	
90 PERCENT EXCEEDS	0.50		3.7	4.2
			0.61	0.53

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.79	40.07	40.21	40.24	40.13	39.86	43.23	40.88	40.34	44.29	43.83	43.25
2	41.66	40.05	40.16	40.26	40.14	39.90	42.65	40.74	40.39	43.90	44.20	42.83
3	41.62	40.03	40.13	40.25	40.08	39.84	42.00	40.61	40.39	43.23	44.42	42.74
4	41.81	40.02	40.12	40.22	40.06	40.26	41.49	40.60	40.47	42.64	44.43	43.02
5	41.79	40.00	40.10	40.19	40.06	41.00	41.15	40.57	40.61	42.53	44.15	43.27
6	41.73	39.99	40.08	40.19	40.09	40.42	40.92	40.55	40.86	42.30	43.87	43.36
7	42.49	39.98	40.05	40.18	40.12	40.22	40.77	40.54	41.45	42.30	44.64	43.59
8	42.24	39.98	40.04	40.15	40.11	40.12	40.62	40.56	42.05	42.47	44.69	43.60
9	42.00	39.96	40.03	40.18	40.21	40.05	40.52	40.52	41.57	43.08	44.22	44.67
10	41.74	39.97	40.02	40.15	40.19	40.01	40.42	40.51	41.10	44.30	43.85	44.84
11	41.55	39.97	40.03	40.13	40.33	39.97	40.34	40.50	40.92	44.94	44.02	44.67
12	41.34	39.96	40.09	40.17	40.28	39.93	40.25	40.52	40.82	44.76	44.19	44.44
13	41.27	39.95	40.09	40.16	40.11	39.95	40.18	40.67	40.75	44.31	44.02	44.84
14	41.18	39.96	40.07	40.12	40.10	39.97	40.15	40.54	40.69	44.53	43.68	47.23
15	41.03	39.97	40.06	40.10	40.22	40.00	40.09	40.49	40.69	45.50	43.35	47.60
16	40.89	39.95	40.05	40.08	40.21	40.15	40.05	40.47	40.72	44.84	43.09	46.34
17	40.80	39.95	40.04	40.07	40.16	40.13	39.98	40.46	40.70	44.69	43.08	45.32
18	40.73	39.99	40.02	40.06	40.16	39.92	39.93	40.45	40.67	45.16	43.21	44.84
19	40.64	39.98	40.02	40.05	40.29	39.92	39.89	40.44	40.73	45.18	43.34	44.49
20	40.53	39.98	40.02	40.09	40.27	40.18	39.97	40.43	41.19	45.07	43.62	44.23
21	40.45	39.97	40.01	40.10	40.03	40.08	39.90	40.42	41.10	45.59	43.84	44.03
22	40.39	39.97	40.01	40.08	39.92	39.98	39.84	40.42	41.19	45.92	43.50	44.08
23	40.33	39.96	40.00	40.10	39.89	39.94	39.85	40.42	42.03	45.65	43.16	44.17
24	40.31	39.94	39.99	40.11	39.93	40.00	39.77	40.40	42.72	45.33	42.90	43.96
25	40.28	39.95	39.98	40.08	39.89	39.87	39.97	40.38	42.34	44.88	42.69	43.88
26	40.23	40.38	39.96	40.07	39.94	39.83	---	40.37	41.93	44.59	42.55	43.84
27	40.20	40.48	39.96	40.07	39.92	39.80	---	40.36	42.28	44.35	42.41	43.72
28	40.17	40.44	40.12	40.10	39.86	39.84	40.64	40.37	42.82	44.15	42.25	43.69
29	40.14	40.36	40.42	40.12	---	40.05	40.62	40.42	43.73	44.20	42.14	43.88
30	40.11	40.27	40.37	40.10	---	43.41	40.62	40.38	43.48	44.06	42.04	43.83
31	40.09	---	40.30	40.11	---	43.55	---	40.34	---	43.65	42.56	---
MEAN	41.02	40.05	40.08	40.13	40.10	40.26	---	40.49	41.36	44.27	43.48	44.27
MAX	42.49	40.48	40.42	40.26	40.33	43.55	---	40.88	43.73	45.92	44.69	47.60
MIN	40.09	39.94	39.96	40.05	39.86	39.80	---	40.34	40.34	42.30	42.04	42.74

MYAKKA RIVER BASIN

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	5.8	2.4	2.5	3.7	18	3.6	1.6	1.1	293	136	81
2	40	5.5	2.3	3.1	3.4	15	3.5	2.2	0.92	356	95	56
3	34	5.2	2.3	5.0	3.3	13	4.7	1.7	0.79	523	101	73
4	30	5.0	2.2	4.7	3.0	11	3.5	1.3	0.73	300	121	130
5	27	4.9	2.2	4.3	2.7	10	3.0	1.2	0.75	161	92	e112
6	25	4.7	2.2	4.6	2.6	9.3	3.4	1.4	0.80	105	73	e100
7	23	4.3	2.2	4.6	2.9	8.8	3.3	1.1	0.85	77	59	e83
8	25	4.1	2.8	4.1	4.1	8.6	3.4	0.96	2.6	63	110	e74
9	25	3.9	3.4	4.1	3.9	8.1	3.4	0.90	3.3	86	171	e66
10	22	3.8	4.5	4.3	3.8	8.6	3.5	0.86	2.4	85	97	e57
11	20	3.6	4.7	4.0	4.8	7.7	3.1	0.84	1.8	73	66	e64
12	18	3.5	4.0	3.8	4.9	6.9	2.8	0.97	2.1	58	46	e74
13	16	3.4	3.6	3.9	4.2	6.4	22	0.77	6.2	204	35	e87
14	12	3.5	3.3	4.9	4.4	6.0	30	0.70	9.9	341	31	e85
15	10	3.6	3.0	19	4.4	5.4	24	0.68	10	184	29	e74
16	9.7	3.5	2.8	19	4.1	5.2	17	0.75	9.5	105	27	e64
17	13	3.3	2.8	14	3.7	4.7	11	1.6	9.0	70	23	e57
18	14	3.2	3.0	11	3.3	4.3	8.0	1.1	9.0	49	33	e53
19	12	3.1	2.9	8.8	2.9	3.9	6.7	12	9.5	38	38	e47
20	10	3.1	2.8	7.9	2.7	3.5	5.0	15	15	37	37	e42
21	9.1	3.0	2.5	7.2	2.6	3.5	3.8	8.6	24	35	34	e40
22	13	2.9	2.4	6.7	24	3.2	3.2	5.6	50	31	29	e34
23	20	2.8	2.3	6.4	87	2.7	2.6	3.5	45	27	25	e32
24	16	2.8	2.3	5.8	99	2.6	2.9	2.3	52	21	21	e30
25	12	2.7	2.3	5.4	64	6.5	2.2	1.7	276	15	18	e25
26	11	2.6	2.8	5.1	39	18	1.9	1.3	276	12	15	e25
27	9.2	2.6	2.8	4.8	28	8.2	2.4	1.2	181	19	16	e23
28	7.9	2.6	2.7	4.5	21	6.0	1.9	1.8	191	27	56	e21
29	7.1	2.5	2.6	4.3	---	5.3	1.7	1.4	151	22	87	e19
30	6.4	2.4	2.6	4.1	---	5.6	1.6	1.2	117	18	82	e19
31	5.9	---	2.5	3.8	---	5.5	---	1.0	---	93	89	---
TOTAL	554.3	107.9	87.2	195.7	437.4	231.5	189.1	77.23	1459.24	3528	1892	1747
MEAN	17.9	3.60	2.81	6.31	15.6	7.47	6.30	2.49	48.6	114	61.0	58.2
MAX	51	5.8	4.7	19	99	18	30	15	276	523	171	130
MIN	5.9	2.4	2.2	2.5	2.6	2.6	1.6	0.68	0.73	12	15	19
CFSM	0.61	0.12	0.10	0.22	0.53	0.26	0.22	0.09	1.67	3.90	2.09	1.99
IN.	0.71	0.14	0.11	0.25	0.56	0.29	0.24	0.10	1.86	4.49	2.41	2.23

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	27.0	5.12	6.53	10.4	8.59	7.51	4.61	2.01	38.5	93.2	56.1	119
MAX	48.0	8.88	13.4	20.7	15.6	12.0	9.50	4.74	95.4	177	81.2	257
(WY)	2000	2000	2000	1999	2002	2001	2001	1999	1999	2001	1999	2001
MIN	15.0	2.87	2.81	3.54	3.39	3.04	1.12	0.36	0.61	14.6	19.8	49.0
(WY)	2001	2001	2002	2001	2001	2000	1999	2001	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1999 - 2002

ANNUAL TOTAL	17034.96	10506.57		
ANNUAL MEAN	46.7	28.8	31.6	
HIGHEST ANNUAL MEAN			46.4	2001
LOWEST ANNUAL MEAN			19.7	2000
HIGHEST DAILY MEAN	2120	Sep 15	523	Jul 3
LOWEST DAILY MEAN	0.12	Jun 1	0.68	May 15
ANNUAL SEVEN-DAY MINIMUM	0.15	May 26	0.80	May 10
MAXIMUM PEAK FLOW			594	Jul 3
MAXIMUM PEAK STAGE			45.91	Jul 3
ANNUAL RUNOFF (CFSM)	1.60		0.99	
ANNUAL RUNOFF (INCHES)	21.70		13.39	
10 PERCENT EXCEEDS	102		84	
50 PERCENT EXCEEDS	3.9		6.0	
90 PERCENT EXCEEDS	0.61		2.0	
			0.76	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.56	41.46	41.01	41.03	41.18	42.34	41.18	40.89	40.74	45.15	44.50	44.05
2	43.30	41.42	41.00	41.10	41.15	42.19	41.16	40.99	40.70	45.33	44.20	43.67
3	43.09	41.39	41.00	41.37	41.13	42.06	41.33	40.90	40.66	45.76	44.25	43.86
4	42.93	41.37	40.99	41.33	41.10	41.96	41.17	40.83	40.64	45.17	44.40	44.46
5	42.80	41.35	40.98	41.28	41.06	41.87	41.10	40.81	40.65	44.63	44.17	---
6	42.70	41.32	40.99	41.32	41.05	41.80	41.15	40.84	40.66	44.28	43.94	---
7	42.63	41.28	40.99	41.31	41.08	41.75	41.14	40.79	40.68	44.00	43.73	---
8	42.72	41.25	41.07	41.24	41.24	41.73	41.15	40.74	41.01	43.79	44.24	---
9	42.71	41.22	41.14	41.24	41.22	41.69	41.15	40.72	41.10	44.11	44.69	---
10	42.58	41.20	41.30	41.27	41.21	41.74	41.16	40.71	40.98	44.09	44.21	---
11	42.46	41.18	41.33	41.23	41.34	41.65	41.12	40.70	40.89	43.94	43.84	---
12	42.36	41.16	41.23	41.21	41.35	41.57	41.07	40.74	40.93	43.70	43.44	---
13	42.25	41.15	41.17	41.22	41.27	41.52	42.54	40.68	41.47	44.77	43.12	---
14	42.02	41.16	41.14	41.35	41.28	41.48	42.93	40.66	41.80	45.29	42.96	---
15	41.88	41.17	41.10	42.39	41.28	41.42	42.67	40.66	41.84	44.75	42.91	---
16	41.83	41.16	41.08	42.41	41.24	41.38	42.30	40.68	41.79	44.28	42.81	---
17	42.08	41.13	41.07	42.12	41.20	41.32	41.93	40.88	41.75	43.89	42.61	---
18	42.12	41.12	41.09	41.90	41.14	41.28	41.68	40.76	41.75	43.52	43.06	---
19	41.98	41.11	41.09	41.76	41.09	41.22	41.55	41.73	41.80	43.26	43.21	---
20	41.87	41.11	41.07	41.67	41.06	41.16	41.36	42.13	42.16	43.22	43.22	---
21	41.77	41.10	41.03	41.60	41.04	41.16	41.21	41.70	42.62	43.11	43.07	---
22	42.03	41.09	41.01	41.55	42.28	41.13	41.12	41.40	43.54	42.96	42.87	---
23	42.48	41.08	41.00	41.52	44.10	41.06	41.05	41.13	43.43	42.77	42.71	---
24	42.23	41.07	41.00	41.46	44.24	41.05	41.09	40.97	43.47	42.51	42.51	---
25	42.01	41.06	41.00	41.41	43.79	41.40	40.98	40.86	45.05	42.20	42.33	---
26	41.92	41.05	41.07	41.37	43.25	42.30	40.93	40.80	45.11	42.03	42.16	---
27	41.78	41.05	41.07	41.34	42.84	41.70	41.02	40.77	44.74	42.40	42.24	---
28	41.67	41.04	41.06	41.30	42.53	41.48	40.93	40.89	44.79	42.81	43.59	---
29	41.59	41.03	41.05	41.27	---	41.40	40.90	40.82	44.58	42.58	44.12	---
30	41.52	41.02	41.04	41.24	---	41.43	40.87	40.76	44.37	42.36	44.06	---
31	41.47	---	41.03	41.21	---	41.43	---	40.73	---	43.88	44.14	---
MEAN	42.27	41.18	41.07	41.45	41.70	41.57	41.36	40.92	42.19	43.76	43.46	---
MAX	43.56	41.46	41.33	42.41	44.24	42.34	42.93	42.13	45.11	45.76	44.69	---
MIN	41.47	41.02	40.98	41.03	41.04	41.05	40.87	40.66	40.64	42.03	42.16	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298492 LONG CREEK NEAR MYAKKA CITY, FL--Continued

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

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

MYAKKA RIVER BASIN

02298492 LONG CREEK NEAR MYAKKA CITY, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	3.5	7.4	4.3	4.7	2.9	2.8	0.85	0.00	6.8	28	11
2	58	7.0	6.5	4.1	4.1	2.1	2.4	0.93	0.00	7.2	25	8.9
3	45	6.1	6.1	3.8	3.9	1.9	1.8	1.2	0.00	5.9	17	7.6
4	40	5.3	5.7	3.6	3.9	1.9	1.7	0.95	0.00	7.6	13	6.8
5	90	4.9	5.2	3.5	3.5	2.3	2.0	0.59	0.00	31	32	6.4
6	66	4.4	4.7	3.5	3.4	1.8	2.0	0.70	0.00	16	33	6.2
7	47	4.0	4.5	15	3.1	1.8	2.8	1.4	0.00	19	25	28
8	34	3.5	4.2	11	2.7	1.7	3.5	1.1	1.0	12	15	168
9	27	3.2	4.1	9.4	2.5	2.8	3.6	0.62	1.9	17	12	118
10	21	3.0	4.2	8.0	2.5	3.4	3.8	0.99	1.5	10	12	66
11	26	2.8	4.2	7.2	2.7	2.3	3.6	1.1	0.98	8.3	67	45
12	34	2.6	3.9	6.0	3.2	1.7	2.0	1.2	0.83	7.1	56	31
13	20	2.3	3.7	5.4	3.4	1.3	1.4	0.95	0.95	6.3	63	22
14	15	2.2	4.3	4.9	2.6	1.4	4.7	0.69	0.98	5.7	47	16
15	14	2.0	3.9	4.1	2.7	1.8	5.5	0.57	0.86	12	36	13
16	13	2.2	4.1	3.8	2.5	1.5	4.9	0.35	0.57	21	34	11
17	12	1.9	3.9	3.5	2.4	2.1	3.9	0.17	0.66	13	25	122
18	10	1.6	12	3.5	2.5	2.6	3.3	0.09	3.6	9.8	19	139
19	8.7	1.6	25	3.5	2.8	7.5	3.0	0.09	3.0	8.7	14	71
20	7.7	1.5	21	3.4	2.8	5.7	2.5	0.20	2.4	7.4	11	51
21	7.2	1.4	17	3.1	2.0	4.8	2.0	0.31	2.1	8.1	9.6	48
22	6.8	1.3	13	2.8	1.9	4.2	1.6	0.33	3.0	38	8.2	39
23	6.1	1.3	9.4	2.8	2.2	4.3	1.6	0.16	3.4	47	7.6	33
24	5.4	1.5	8.1	6.9	2.9	4.6	1.8	0.06	3.2	51	7.6	24
25	4.6	7.1	6.9	7.3	3.5	3.6	1.3	0.05	3.3	47	6.6	18
26	4.3	35	6.0	6.6	3.3	3.2	1.0	0.13	4.9	66	6.5	14
27	4.2	21	5.5	6.4	2.9	3.8	0.81	0.12	7.4	45	5.9	11
28	3.9	14	5.7	6.7	2.6	3.4	0.73	0.06	8.5	51	5.3	9.8
29	3.5	11	5.4	5.8	2.9	3.1	0.77	0.00	7.4	33	6.4	8.6
30	3.2	8.9	4.9	5.1	---	3.8	0.81	0.00	7.2	31	13	7.7
31	3.1	---	4.6	4.6	---	3.4	---	0.00	---	25	12	---
TOTAL	668.7	168.1	225.1	169.6	86.1	92.7	73.62	15.96	69.63	673.9	672.7	1161.0
MEAN	21.6	5.60	7.26	5.47	2.97	2.99	2.45	0.51	2.32	21.7	21.7	38.7
MAX	90	35	25	15	4.7	7.5	5.5	1.4	8.5	66	67	168
MIN	3.1	1.3	3.7	2.8	1.9	1.3	0.73	0.00	0.00	5.7	5.3	6.2
CFSM	3.57	0.93	1.20	0.90	0.49	0.49	0.41	0.09	0.38	3.59	3.59	6.40
IN.	4.11	1.03	1.38	1.04	0.53	0.57	0.45	0.10	0.43	4.14	4.14	7.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000
MEAN	21.6	5.60	7.26	5.46	2.95	2.82	1.87	2.55	11.6	17.1	17.0	24.5
MAX	21.6	5.60	7.26	5.47	2.97	2.99	2.45	4.59	20.9	21.7	21.7	38.7
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	2000	2000	2000
MIN	21.6	5.60	7.26	5.45	2.92	2.65	1.28	0.51	2.32	12.6	12.4	10.4
(WY)	2000	2000	2000	1999	1999	1999	1999	2000	2000	1999	1999	1999

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL TOTAL	3287.18	4077.11		
ANNUAL MEAN	9.01	11.1		11.1
HIGHEST ANNUAL MEAN				11.1
LOWEST ANNUAL MEAN				11.1
HIGHEST DAILY MEAN	90	Oct 5	168	Sep 8
LOWEST DAILY MEAN	0.56	May 6	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.79	Apr 22	0.00	May 29
MAXIMUM PEAK FLOW			200	Sep 17
MAXIMUM PEAK STAGE			46.20	Sep 17
ANNUAL RUNOFF (CFSM)	1.49		1.84	
ANNUAL RUNOFF (INCHES)	20.21		25.07	
10 PERCENT EXCEEDS	21		31	
50 PERCENT EXCEEDS	4.7		4.2	
90 PERCENT EXCEEDS	1.5		0.86	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298492 LONG CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.44	42.19	42.44	42.19	42.22	42.05	42.05	41.91	41.37	42.15	43.34	42.51
2	44.39	42.49	42.37	42.17	42.17	41.98	42.01	41.92	41.29	42.18	43.25	42.37
3	43.99	42.41	42.34	42.14	42.15	41.96	41.94	41.96	41.21	42.06	42.85	42.26
4	43.84	42.35	42.30	42.12	42.15	41.96	41.94	41.93	41.14	42.17	42.66	42.20
5	45.05	42.31	42.26	42.11	42.10	42.00	41.97	41.86	41.07	43.48	43.49	42.18
6	44.59	42.28	42.23	42.10	42.10	41.95	41.97	41.88	41.00	42.81	43.54	42.21
7	44.12	42.24	42.21	42.91	42.07	41.95	42.04	41.99	41.01	42.93	43.24	42.90
8	43.73	42.20	42.18	42.72	42.04	41.94	42.11	41.95	41.61	42.57	42.79	45.97
9	43.50	42.17	42.17	42.59	42.02	42.05	42.12	41.87	41.67	42.82	42.58	45.42
10	43.28	42.14	42.18	42.48	42.02	42.10	42.14	41.93	41.62	42.44	42.53	44.58
11	43.40	42.13	42.18	42.43	42.04	42.00	42.12	41.95	41.55	42.28	44.58	44.03
12	43.74	42.12	42.15	42.33	42.08	41.94	41.97	41.97	41.53	42.17	44.30	43.59
13	43.24	42.10	42.13	42.27	42.10	41.89	41.91	41.93	41.55	42.10	44.50	43.23
14	43.01	42.08	42.19	42.23	42.03	41.90	42.27	41.88	41.55	42.05	44.02	42.97
15	42.92	42.06	42.15	42.17	42.04	41.95	42.36	41.86	41.53	42.48	43.66	42.79
16	42.88	42.08	42.17	42.14	42.02	41.91	42.31	41.80	41.47	43.03	43.59	42.68
17	42.82	42.04	42.15	42.11	42.01	41.97	42.23	41.74	41.47	42.58	43.23	44.96
18	42.70	42.01	42.71	42.11	42.02	42.03	42.18	41.70	41.84	42.40	42.96	45.65
19	42.61	42.01	43.39	42.11	42.04	42.45	42.14	41.70	41.79	42.31	42.72	44.69
20	42.54	42.01	43.22	42.10	42.04	42.30	42.10	41.76	41.72	42.20	42.55	44.20
21	42.50	42.00	43.03	42.07	41.97	42.23	42.06	41.79	41.69	42.24	42.42	44.13
22	42.47	41.98	42.82	42.04	41.96	42.18	42.02	41.80	41.78	43.74	42.31	43.85
23	42.41	41.98	42.59	42.04	41.99	42.19	42.02	41.74	41.82	44.01	42.27	43.67
24	42.35	42.00	42.50	42.40	42.05	42.21	42.04	41.68	41.81	44.15	42.26	43.33
25	42.30	42.36	42.40	42.44	42.11	42.11	41.98	41.67	41.82	43.99	42.18	43.06
26	42.27	43.75	42.33	42.38	42.09	42.08	41.93	41.73	41.97	44.53	42.17	42.84
27	42.26	43.21	42.28	42.36	42.05	42.14	41.90	41.72	42.20	43.95	42.12	42.69
28	42.23	42.88	42.30	42.39	42.03	42.10	41.89	41.67	42.29	44.14	42.07	42.58
29	42.20	42.70	42.28	42.31	42.05	42.07	41.90	41.58	42.20	43.56	42.16	42.50
30	42.17	42.55	42.24	42.25	---	42.13	41.90	41.51	42.18	43.47	42.62	42.43
31	42.15	---	42.21	42.22	---	42.10	---	41.45	---	43.24	42.55	---
MEAN	43.07	42.29	42.39	42.27	42.06	42.06	42.05	41.80	41.62	42.91	42.95	43.42
MAX	45.05	43.75	43.39	42.91	42.22	42.45	42.36	41.99	42.29	44.53	44.58	45.97
MIN	42.15	41.98	42.13	42.04	41.96	41.89	41.89	41.45	41.00	42.05	42.07	42.18

MYAKKA RIVER BASIN

02298492 LONG CREEK NEAR MYAKKA CITY, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	1.4	1.9	6.0	3.7	4.3	70	1.3	0.10	37	21	8.3
2	6.1	1.3	1.7	6.0	3.0	4.1	31	1.4	0.05	34	21	8.5
3	5.7	1.2	1.7	5.3	2.5	3.4	19	1.6	0.09	24	32	7.8
4	5.9	1.1	1.6	4.3	2.4	5.7	14	1.9	0.60	15	30	8.6
5	5.2	1.0	1.5	4.8	2.3	11	10	1.6	1.1	11	36	22
6	5.5	0.92	1.4	5.4	2.8	6.5	7.6	1.1	4.3	14	33	14
7	12	1.0	1.3	4.7	3.6	5.9	6.9	0.70	12	51	38	26
8	11	0.96	1.2	4.6	2.6	5.1	7.7	0.60	10	e60	41	26
9	10	0.97	1.2	5.0	2.4	5.3	6.3	0.70	9.2	e40	32	124
10	7.9	1.0	1.4	5.1	2.9	4.6	6.2	0.77	6.5	e92	25	123
11	6.6	1.2	1.5	5.6	3.4	3.9	5.8	0.74	5.0	e80	21	131
12	5.7	1.0	2.2	4.7	3.4	3.8	4.9	1.3	4.5	e180	19	108
13	5.0	0.84	2.4	4.2	4.2	3.9	4.7	1.7	3.6	e97	21	133
14	4.5	1.1	2.3	3.9	4.8	4.4	5.0	1.3	3.2	e78	26	658
15	4.1	1.2	2.1	3.9	4.3	5.9	5.0	1.5	3.0	e135	24	529
16	3.7	0.91	2.0	3.5	3.3	4.8	4.8	1.8	3.3	e36	17	294
17	3.4	0.81	2.2	3.2	2.9	4.0	4.6	1.2	3.1	e8.8	14	138
18	3.2	1.0	2.2	3.0	2.9	3.1	3.5	0.75	3.3	e285	12	75
19	3.0	1.0	2.7	2.8	2.9	3.5	3.2	0.61	5.9	e200	10	51
20	2.9	0.94	3.6	3.4	2.3	4.6	2.9	0.58	9.5	197	9.2	35
21	2.9	0.87	4.8	3.3	2.4	5.4	2.9	0.61	8.2	249	11	30
22	2.7	0.74	6.3	2.9	3.2	6.0	2.6	0.63	9.8	294	23	59
23	2.4	0.78	5.7	2.7	2.9	4.9	2.3	0.60	18	184	15	56
24	2.2	0.80	5.1	2.4	3.5	3.6	2.3	0.75	24	133	12	42
25	2.0	1.1	4.8	2.3	3.3	2.9	2.6	0.74	16	92	10	32
26	2.0	2.4	4.8	2.4	2.6	3.0	2.9	0.67	17	86	8.6	24
27	2.0	2.8	4.5	2.3	2.8	3.3	2.6	0.49	32	60	7.2	21
28	2.1	2.4	4.9	2.7	3.6	3.3	2.3	0.46	22	44	6.2	22
29	1.9	2.2	5.6	3.1	---	4.4	2.1	0.61	50	34	6.0	24
30	1.7	2.1	4.1	4.3	---	127	1.6	0.34	27	27	5.5	24
31	1.6	---	4.3	4.7	---	73	---	0.22	---	23	9.9	---
TOTAL	142.0	37.04	93.0	122.5	86.9	334.6	247.3	29.27	312.34	2900.8	596.6	2854.2
MEAN	4.58	1.23	3.00	3.95	3.10	10.8	8.24	0.94	10.4	93.6	19.2	95.1
MAX	12	2.8	6.3	6.0	4.8	127	70	1.9	50	294	41	658
MIN	1.6	0.74	1.2	2.3	2.3	2.9	1.6	0.22	0.05	8.8	5.5	7.8
CFSM	0.76	0.20	0.50	0.65	0.51	1.78	1.36	0.16	1.72	15.5	3.18	15.7
IN.	0.87	0.23	0.57	0.75	0.53	2.06	1.52	0.18	1.92	17.84	3.67	17.55

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	13.1	3.42	5.13	4.96	3.00	5.48	3.99	2.02	11.2	42.6	17.8	48.1
MAX	21.6	5.60	7.26	5.47	3.10	10.8	8.24	4.59	20.9	93.6	21.7	95.1
(WY)	2000	2000	2000	2000	2001	2001	2001	1999	1999	2001	2000	2001
MIN	4.58	1.23	3.00	3.95	2.92	2.65	1.28	0.51	2.32	12.6	12.4	10.4
(WY)	2001	2001	2001	2001	1999	1999	1999	2000	2000	1999	1999	1999

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1999 - 2001

ANNUAL TOTAL	3287.25	7756.55		
ANNUAL MEAN	8.98	21.3	16.2	
HIGHEST ANNUAL MEAN			21.3	2001
LOWEST ANNUAL MEAN			11.1	2000
HIGHEST DAILY MEAN	168	Sep 8	658	Sep 14 2001
LOWEST DAILY MEAN	0.00	Many Days	0.05	Jun 2
ANNUAL SEVEN-DAY MINIMUM	0.00	May 29	0.27	May 28
MAXIMUM PEAK FLOW			1000	Sep 14 2001
MAXIMUM PEAK STAGE			47.67	Sep 14 2001
ANNUAL RUNOFF (CFSM)	1.48		3.51	
ANNUAL RUNOFF (INCHES)	20.21		47.69	
10 PERCENT EXCEEDS	24		43	35
50 PERCENT EXCEEDS	3.4		4.3	4.3
90 PERCENT EXCEEDS	0.81		1.0	0.95

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298492 LONG CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.35	41.86	41.92	42.30	42.10	42.15	44.24	41.88	41.61	43.49	43.06	42.43
2	42.28	41.85	41.90	42.30	42.04	42.13	43.52	41.89	41.58	43.44	43.05	42.44
3	42.25	41.84	41.90	42.25	41.99	42.08	43.11	41.91	41.58	43.12	43.42	42.40
4	42.26	41.83	41.89	42.16	41.97	42.24	42.88	41.93	41.75	42.74	43.34	42.45
5	42.21	41.82	41.88	42.21	41.97	42.64	42.69	41.90	41.80	42.54	43.52	43.07
6	42.23	41.80	41.87	42.26	42.01	42.34	42.54	41.85	42.07	42.66	43.41	42.77
7	42.65	41.81	41.86	42.19	42.09	42.29	42.49	41.79	42.62	43.76	43.58	43.23
8	42.62	41.81	41.85	42.18	41.99	42.23	42.43	41.77	42.51	---	43.65	43.24
9	42.53	41.81	41.85	42.23	41.98	42.25	42.33	41.79	42.44	---	43.43	44.78
10	42.41	41.81	41.88	42.23	42.03	42.19	42.32	41.80	42.27	---	43.18	44.76
11	42.32	41.84	41.88	42.27	42.07	42.12	42.29	41.80	42.15	---	43.05	44.85
12	42.25	41.81	41.96	42.20	42.08	42.11	42.22	41.88	42.11	---	42.97	44.60
13	42.20	41.79	41.98	42.14	42.15	42.12	42.20	41.91	42.04	---	43.04	44.85
14	42.15	41.82	41.97	42.12	42.21	42.16	42.23	41.87	42.00	---	43.23	46.84
15	42.12	41.84	41.95	42.11	42.16	42.30	42.22	41.89	41.97	---	43.15	46.67
16	42.08	41.80	41.93	42.08	42.06	42.21	42.21	41.93	42.01	---	42.91	45.85
17	42.05	41.78	41.96	42.06	42.03	42.12	42.19	41.86	41.99	---	42.73	44.89
18	42.03	41.82	41.96	42.04	42.03	42.04	42.09	41.80	42.00	---	42.65	44.27
19	42.02	41.82	42.01	42.02	42.03	42.08	42.07	41.78	42.22	---	42.54	43.95
20	42.01	41.80	42.10	42.07	41.97	42.19	42.04	41.77	42.46	45.21	42.49	43.66
21	42.01	41.79	42.20	42.06	41.97	42.25	42.04	41.78	42.38	45.61	42.55	43.52
22	41.99	41.77	42.33	42.03	42.05	42.31	42.00	41.78	42.48	45.84	43.10	44.06
23	41.96	41.78	42.28	42.00	42.03	42.22	41.97	41.78	42.87	45.21	42.78	44.03
24	41.93	41.78	42.24	41.98	42.08	42.10	41.98	41.80	43.10	44.81	42.65	43.79
25	41.92	41.82	42.20	41.97	42.07	42.03	42.01	41.80	42.80	44.39	42.53	43.56
26	41.93	41.98	42.21	41.97	42.00	42.03	42.04	41.79	42.80	44.33	42.45	43.35
27	41.92	42.02	42.18	41.97	42.01	42.07	42.01	41.75	43.34	43.96	42.36	43.26
28	41.93	41.98	42.21	42.01	42.09	42.08	41.97	41.74	43.01	43.69	42.29	43.29
29	41.91	41.95	42.27	42.05	---	42.21	41.95	41.78	43.75	43.46	42.28	43.35
30	41.89	41.94	42.14	42.15	---	44.74	41.91	41.71	43.20	43.25	42.23	43.34
31	41.88	---	42.16	42.20	---	44.30	---	41.67	---	43.11	42.53	---
MEAN	42.14	41.84	42.03	42.12	42.05	42.33	42.34	41.82	42.36	---	42.91	43.92
MAX	42.65	42.02	42.33	42.30	42.21	44.74	44.24	41.93	43.75	---	43.65	46.84
MIN	41.88	41.77	41.85	41.97	41.97	42.03	41.91	41.67	41.58	---	42.23	42.40

MYAKKA RIVER BASIN

02298492 LONG CREEK NEAR MYAKKA CITY, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	2.3	1.3	2.2	4.4	10	2.9	1.1	0.60	191	18	34
2	16	2.4	1.4	3.1	4.7	8.3	3.6	0.82	0.48	207	17	27
3	12	2.2	1.1	3.9	4.1	7.1	4.0	0.80	0.33	141	22	41
4	9.8	2.2	1.1	3.0	3.9	6.2	2.9	0.97	0.21	91	17	35
5	8.2	2.2	1.0	2.6	4.1	5.5	2.5	0.93	0.21	55	13	30
6	6.9	2.2	1.1	3.0	4.4	5.1	2.5	0.98	0.29	37	10	23
7	6.3	1.9	1.2	3.0	4.1	5.5	2.4	0.79	0.29	26	9.7	17
8	5.9	1.8	1.6	2.7	4.4	5.0	1.9	0.66	0.65	22	12	14
9	5.1	1.8	1.7	2.6	4.5	4.5	1.6	0.72	1.1	41	12	11
10	4.4	1.8	1.6	2.9	4.1	4.7	1.5	0.58	0.95	31	11	11
11	4.1	1.8	1.7	2.7	4.3	5.3	1.9	0.52	0.76	25	8.5	20
12	3.6	1.7	1.6	2.5	4.4	3.9	3.1	0.38	0.74	31	7.2	32
13	3.2	1.8	1.4	2.3	3.9	3.6	24	0.29	3.9	141	6.4	39
14	2.9	2.1	1.3	3.3	3.9	3.7	19	0.26	9.4	99	6.6	27
15	2.7	2.0	1.8	21	3.9	4.9	25	0.20	13	59	8.8	19
16	2.6	2.1	1.9	12	3.9	5.3	12	0.18	11	36	7.2	14
17	2.4	2.0	2.2	12	4.4	3.9	7.5	0.46	8.6	22	6.9	10
18	2.2	1.8	2.3	10	4.3	2.7	5.6	0.40	7.3	15	11	8.5
19	2.2	1.7	2.4	8.2	4.5	2.8	4.4	1.3	6.3	12	11	6.9
20	2.3	1.7	2.2	6.9	5.1	3.4	3.5	1.9	11	9.6	12	6.4
21	2.4	1.7	2.5	6.1	3.6	4.0	2.8	1.5	13	14	8.3	5.5
22	3.3	1.9	2.3	5.6	23	4.4	2.3	1.1	31	23	7.3	4.7
23	3.2	1.8	2.7	5.2	68	3.4	2.3	0.82	18	14	6.1	4.9
24	3.0	1.8	2.9	4.7	56	3.3	2.1	0.83	61	9.5	5.1	5.4
25	3.0	1.7	3.0	5.1	37	9.0	2.0	0.58	147	7.4	4.5	6.3
26	3.6	1.5	2.3	5.6	23	16	1.8	0.41	161	8.0	4.1	6.7
27	3.2	1.5	2.1	5.1	14	6.6	1.7	0.30	88	48	9.1	6.7
28	2.7	1.3	2.5	4.1	12	5.5	1.4	0.25	75	27	23	5.9
29	2.3	1.3	2.4	4.3	---	5.3	1.1	0.22	70	18	23	5.1
30	2.2	1.3	2.2	4.0	---	5.8	0.97	0.24	74	21	22	4.4
31	2.2	---	2.1	4.1	---	4.1	---	0.44	---	28	23	---
TOTAL	154.9	55.3	58.9	163.8	321.9	168.8	150.27	20.93	815.11	1509.5	362.8	481.4
MEAN	5.00	1.84	1.90	5.28	11.5	5.45	5.01	0.68	27.2	48.7	11.7	16.0
MAX	21	2.4	3.0	21	68	16	25	1.9	161	207	23	41
MIN	2.2	1.3	1.0	2.2	3.6	2.7	0.97	0.18	0.21	7.4	4.1	4.4
CFSM	0.83	0.30	0.31	0.87	1.90	0.90	0.83	0.11	4.49	8.05	1.93	2.65
IN.	0.95	0.34	0.36	1.01	1.98	1.04	0.92	0.13	5.01	9.28	2.23	2.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	10.4	2.89	4.05	5.04	5.10	5.47	4.25	1.68	15.2	44.1	16.3	40.1
MAX	21.6	5.60	7.26	5.47	11.5	10.8	8.24	4.59	27.2	93.6	21.7	95.1
(WY)	2000	2000	2000	2000	2002	2001	2001	1999	2002	2001	2000	2001
MIN	4.58	1.23	1.90	3.95	2.92	2.65	1.28	0.51	2.32	12.6	11.7	10.4
(WY)	2001	2001	2002	2001	1999	1999	1999	2000	2000	1999	2002	1999

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1999 - 2002

ANNUAL TOTAL	7753.61	4263.61		
ANNUAL MEAN	21.2	11.7	14.7	
HIGHEST ANNUAL MEAN			21.3	2001
LOWEST ANNUAL MEAN			11.1	2000
HIGHEST DAILY MEAN	658	Sep 14	207	Jul 2
LOWEST DAILY MEAN	0.05	Jun 2	0.18	May 16
ANNUAL SEVEN-DAY MINIMUM	0.27	May 28	0.31	May 12
MAXIMUM PEAK FLOW			267	Jul 2
MAXIMUM PEAK STAGE			45.74	Jul 2
ANNUAL RUNOFF (CFSM)	3.51		1.93	
ANNUAL RUNOFF (INCHES)	47.68		26.22	
10 PERCENT EXCEEDS	43		25	
50 PERCENT EXCEEDS	3.7		4.1	
90 PERCENT EXCEEDS	1.3		0.97	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298492 LONG CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.25	42.08	41.93	42.02	42.11	42.65	42.12	41.98	41.91	45.29	42.99	43.54
2	43.05	42.08	41.94	42.12	42.14	42.54	42.18	41.94	41.88	45.39	42.95	43.35
3	42.87	42.06	41.90	42.19	42.09	42.47	42.22	41.94	41.84	44.94	43.14	43.71
4	42.73	42.06	41.90	42.11	42.07	42.40	42.12	41.96	41.79	44.47	42.95	43.61
5	42.63	42.04	41.89	42.07	42.09	42.34	42.08	41.96	41.79	44.01	42.77	43.48
6	42.55	42.04	41.91	42.11	42.12	42.31	42.08	41.97	41.83	43.65	42.62	43.26
7	42.50	42.01	41.92	42.11	42.08	42.34	42.07	41.94	41.83	43.35	42.58	43.06
8	42.46	42.00	41.96	42.08	42.11	42.31	42.01	41.92	41.91	43.23	42.74	42.92
9	42.40	41.99	41.97	42.07	42.13	42.26	41.98	41.93	41.99	43.75	42.72	42.81
10	42.34	41.99	41.96	42.10	42.09	42.28	41.97	41.90	41.96	43.52	42.65	42.77
11	42.31	41.99	41.97	42.08	42.11	42.33	42.01	41.89	41.93	43.32	42.51	43.18
12	42.26	41.97	41.96	42.06	42.11	42.21	42.14	41.85	41.93	43.44	42.43	43.57
13	42.22	41.98	41.94	42.04	42.07	42.19	43.26	41.83	42.27	44.94	42.38	43.72
14	42.19	42.01	41.93	42.09	42.07	42.20	43.11	41.81	42.67	44.56	42.39	43.41
15	42.17	42.00	41.98	43.00	42.07	42.30	43.31	41.79	42.85	44.06	42.53	43.16
16	42.16	42.01	41.99	42.64	42.07	42.33	42.81	41.78	42.77	43.63	42.43	42.94
17	42.13	42.00	42.03	42.60	42.11	42.21	42.55	41.88	42.62	43.25	42.40	42.79
18	42.11	41.98	42.04	42.50	42.11	42.10	42.41	41.86	42.54	42.97	42.65	42.66
19	42.11	41.97	42.05	42.39	42.13	42.11	42.31	41.98	42.47	42.83	42.66	42.56
20	42.10	41.97	42.03	42.31	42.17	42.16	42.23	42.07	42.76	42.69	42.71	42.53
21	42.11	41.97	42.06	42.25	42.05	42.22	42.17	42.03	42.81	42.87	42.50	42.45
22	42.21	41.99	42.04	42.21	42.78	42.25	42.12	41.98	43.50	43.27	42.44	42.39
23	42.19	41.98	42.08	42.18	44.17	42.16	42.12	41.94	43.09	42.90	42.35	42.41
24	42.17	41.98	42.10	42.14	43.99	42.15	42.09	41.94	43.99	42.69	42.27	42.44
25	42.17	41.97	42.11	42.17	43.61	42.45	42.08	41.90	44.99	42.55	42.22	42.52
26	42.21	41.95	42.04	42.22	43.21	42.90	42.06	41.86	45.09	42.57	42.19	42.55
27	42.17	41.95	42.02	42.18	42.87	42.42	42.05	41.83	44.44	43.82	42.51	42.55
28	42.13	41.93	42.06	42.09	42.75	42.34	42.02	41.81	44.29	43.30	43.20	42.49
29	42.09	41.93	42.05	42.10	---	42.33	41.99	41.80	44.22	43.02	43.21	42.42
30	42.06	41.93	42.02	42.08	---	42.37	41.97	41.80	44.15	43.13	43.19	42.36
31	42.06	---	42.01	42.09	---	42.23	---	41.87	---	43.35	43.21	---
MEAN	42.33	41.99	41.99	42.21	42.41	42.32	42.25	41.90	42.80	43.57	42.66	42.92
MAX	43.25	42.08	42.11	43.00	44.17	42.90	43.31	42.07	45.09	45.39	43.21	43.72
MIN	42.06	41.93	41.89	42.02	42.05	42.10	41.97	41.78	41.79	42.55	42.19	42.36

MYAKKA RIVER BASIN

02298494 FLATFORD SWAMP NEAR MYAKKA RIVER NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°23'37", long 82°08'33" (1927 North American datum), in NE¹/₄ sec.31, T.35 S., R.22 E., Manatee County, Hydrologic Unit 03100102, 200 ft west of dry land, 0.5 mi west of Myakka City-Wauchula Road, and 4.0 mi north of Myakka City.

DRAINAGE AREA.--Undetermined.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 44.44 ft, Sept.15, 2001; minimum observed, 38.97 ft, June 9, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 41.78 ft, July 3, 4; minimum, 39.48 ft, June 5-8, 12.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.92	40.41	40.09	40.20	40.32	40.68	40.46	40.26	39.62	41.34	40.95	41.27
2	40.89	40.40	40.09	40.22	40.31	40.64	40.45	40.23	39.58	41.75	41.07	41.24
3	40.84	40.39	40.08	40.26	40.30	40.60	40.43	40.21	39.54	41.72	41.09	41.26
4	40.79	40.37	40.07	40.26	40.30	40.58	40.42	40.18	39.51	41.72	41.11	41.29
5	40.74	40.36	40.07	40.26	40.29	40.56	40.40	40.15	39.49	41.45	41.12	41.29
6	40.70	40.34	40.06	40.27	40.28	40.53	40.38	40.13	39.48	41.18	41.06	41.20
7	40.67	40.32	40.06	40.27	40.29	40.51	40.36	40.11	39.48	40.98	40.99	41.10
8	40.65	40.30	40.09	40.27	40.31	40.51	40.34	40.09	39.50	40.87	40.94	41.02
9	40.62	40.29	40.10	40.27	40.31	40.49	40.32	40.05	39.57	40.87	41.07	40.96
10	40.60	40.29	40.10	40.27	40.31	40.48	40.30	40.01	39.52	40.89	41.14	40.92
11	40.59	40.27	40.12	40.26	40.33	40.46	40.28	39.98	39.50	40.87	41.04	40.93
12	40.57	40.25	40.12	40.26	40.33	40.45	40.28	39.95	39.51	40.89	40.95	40.98
13	40.55	40.24	40.11	40.26	40.33	40.44	40.37	39.92	39.61	41.16	40.88	41.04
14	40.53	40.23	40.11	40.29	40.34	40.43	40.42	39.89	39.62	41.51	40.84	41.06
15	40.52	40.23	40.11	40.45	40.34	40.42	40.62	39.86	39.65	41.41	40.83	41.05
16	40.50	40.22	40.11	40.48	40.34	40.41	40.68	39.86	39.63	41.19	40.78	41.01
17	40.48	40.21	40.11	40.50	40.33	40.41	40.66	39.92	40.03	41.02	40.77	40.96
18	40.46	40.20	40.12	40.50	40.32	40.40	40.63	39.89	40.31	40.90	40.82	40.91
19	40.44	40.20	40.12	40.48	40.31	40.39	40.59	39.98	40.32	40.83	40.93	40.87
20	40.43	40.19	40.12	40.47	40.30	40.38	40.56	40.04	40.31	40.75	40.91	40.85
21	40.44	40.18	40.12	40.44	40.30	40.37	40.53	40.01	40.37	40.74	40.92	40.81
22	40.48	40.17	40.12	40.42	40.41	40.35	40.50	39.98	40.52	40.85	40.88	40.76
23	40.47	40.16	40.12	40.41	40.77	40.33	40.47	39.94	40.59	40.80	40.81	40.73
24	40.46	40.15	40.12	40.39	41.01	40.31	40.44	39.90	40.71	40.71	40.75	40.73
25	40.45	40.14	40.13	40.37	41.01	40.32	40.41	39.86	41.16	40.63	40.70	40.78
26	40.48	40.13	40.17	40.36	40.92	40.34	40.38	39.83	41.48	40.61	40.66	40.75
27	40.48	40.12	40.18	40.35	40.82	40.40	40.36	39.79	41.45	40.79	40.68	40.73
28	40.46	40.11	40.19	40.35	40.74	40.50	40.33	39.75	41.34	40.79	40.71	40.72
29	40.44	40.11	40.20	40.34	---	40.50	40.30	39.71	41.31	40.74	40.82	40.71
30	40.43	40.10	40.20	40.34	---	40.49	40.28	39.68	41.17	40.72	41.05	40.70
31	40.42	---	40.20	40.33	---	40.47	---	39.65	---	40.74	41.15	---
MEAN	40.56	40.24	40.12	40.34	40.44	40.46	40.43	39.96	40.13	41.01	40.92	40.95
MAX	40.92	40.41	40.20	40.50	41.01	40.68	40.68	40.26	41.48	41.75	41.15	41.29
MIN	40.42	40.10	40.06	40.20	40.28	40.31	40.28	39.65	39.48	40.61	40.66	40.70

MYAKKA RIVER BASIN

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL--Continued

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

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

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	3.4	3.1	2.1	2.7	1.1	2.0	0.00	0.00	15	17	15
2	19	7.0	2.8	1.9	2.5	1.5	1.4	0.00	0.00	16	29	13
3	18	4.1	2.9	1.7	2.4	2.0	1.1	0.00	0.00	8.5	18	12
4	22	2.7	2.4	1.6	2.6	2.2	0.69	0.00	0.00	5.5	13	14
5	64	2.3	2.0	1.7	2.6	2.3	0.46	0.00	0.00	19	20	13
6	31	2.8	1.8	2.0	2.7	2.6	0.22	0.00	0.00	16	37	15
7	17	2.8	1.6	19	2.7	2.7	0.07	0.00	0.00	13	36	67
8	12	2.7	1.5	13	2.6	2.6	0.00	0.00	0.00	13	20	207
9	12	2.4	1.6	7.7	2.3	2.7	0.00	0.00	0.00	23	13	82
10	8.4	2.0	2.0	5.7	2.5	1.8	0.00	0.00	0.00	12	10	43
11	6.0	2.2	2.4	4.8	2.7	1.7	0.00	0.00	0.00	7.8	9.1	26
12	5.5	2.3	1.8	3.9	2.8	1.9	0.00	0.00	0.00	5.5	13	21
13	5.0	2.2	1.5	3.2	2.2	1.6	0.00	0.00	0.00	4.2	21	20
14	4.2	2.2	1.8	2.6	1.8	1.1	1.9	0.00	0.00	3.5	16	19
15	3.5	1.9	2.3	2.3	1.8	1.1	3.0	0.00	0.00	10	14	20
16	3.2	1.1	2.4	2.6	1.9	1.5	1.7	0.00	0.00	23	13	18
17	3.2	0.71	2.3	2.8	2.4	1.5	1.1	0.00	0.00	13	12	187
18	2.7	0.57	13	2.2	1.7	1.4	0.68	0.00	0.00	8.7	10	104
19	2.4	0.76	28	2.7	1.8	3.7	0.44	0.00	0.00	6.9	8.8	40
20	2.9	0.77	14	3.5	2.4	2.7	0.36	0.00	0.00	6.0	7.9	26
21	3.5	0.69	7.8	2.8	1.6	1.9	0.16	0.00	0.02	5.6	7.2	35
22	3.9	0.87	5.6	2.3	1.4	1.7	0.07	0.00	0.97	15	6.5	24
23	3.8	1.2	4.6	2.1	1.9	1.4	0.05	0.00	0.97	20	6.0	18
24	3.4	1.7	3.8	12	2.2	1.1	0.16	0.00	0.77	28	5.4	13
25	2.7	11	3.0	11	1.5	0.98	0.15	0.00	4.3	40	4.8	12
26	2.5	39	2.5	6.2	1.1	0.79	0.00	0.00	21	67	12	10
27	2.4	17	2.5	5.3	1.1	0.87	0.00	0.00	20	38	13	9.8
28	2.3	8.3	3.3	5.5	1.5	1.0	0.00	0.00	23	34	11	7.5
29	2.4	5.6	3.2	4.6	1.5	0.97	0.00	0.00	12	19	13	5.6
30	2.3	4.1	3.1	3.4	---	1.6	0.00	0.00	11	16	25	4.4
31	2.4	---	2.8	2.9	---	1.8	---	0.00	---	15	18	---
TOTAL	282.3	136.37	133.4	145.1	60.9	53.81	15.71	0.00	94.03	527.2	459.7	1101.3
MEAN	9.11	4.55	4.30	4.68	2.10	1.74	0.52	0.000	3.13	17.0	14.8	36.7
MAX	64	39	28	19	2.8	3.7	3.0	0.00	23	67	37	207
MIN	2.3	0.57	1.5	1.6	1.1	0.79	0.00	0.00	0.00	3.5	4.8	4.4
CFSM	2.32	1.16	1.09	1.19	0.53	0.44	0.13	0.00	0.80	4.33	3.77	9.34
IN.	2.67	1.29	1.26	1.37	0.58	0.51	0.15	0.00	0.89	4.99	4.35	10.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000
MEAN	9.11	4.55	4.30	4.88	2.04	1.29	0.39	1.28	10.2	11.9	11.3	22.2
MAX	9.11	4.55	4.30	5.07	2.10	1.74	0.52	2.57	17.3	17.0	14.8	36.7
(WY)	2000	2000	2000	1999	2000	2000	2000	1999	1999	2000	2000	2000
MIN	9.11	4.55	4.30	4.68	1.98	0.85	0.26	0.000	3.13	6.77	7.79	7.70
(WY)	2000	2000	2000	2000	1999	1999	1999	2000	2000	1999	1999	1999

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL TOTAL	2078.53	3009.82		
ANNUAL MEAN	5.69	8.22		
HIGHEST ANNUAL MEAN		8.22		2000
LOWEST ANNUAL MEAN		8.22		2000
HIGHEST DAILY MEAN	64	207	Jun 18	Sep 8 2000
LOWEST DAILY MEAN	0.00	0.00	Many Days	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.01	0.00	Apr 5	Apr 26 2000
MAXIMUM PEAK FLOW		389		Sep 8 2000
MAXIMUM PEAK STAGE		44.85		Sep 8 2000
ANNUAL RUNOFF (CFSM)	1.45	2.09		
ANNUAL RUNOFF (INCHES)	19.67	28.49		
10 PERCENT EXCEEDS	16	20		
50 PERCENT EXCEEDS	2.5	2.6		
90 PERCENT EXCEEDS	0.30	0.00		

MYAKKA RIVER BASIN

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.00	41.42	41.39	41.23	41.33	41.01	41.20	40.20	40.18	42.16	42.21	42.12
2	42.63	41.82	41.34	41.18	41.29	41.10	41.10	40.20	40.18	42.18	42.69	42.02
3	42.61	41.51	41.36	41.15	41.28	41.20	41.02	40.20	40.18	41.68	42.29	41.97
4	42.76	41.32	41.26	41.13	41.31	41.25	40.93	40.20	40.18	41.41	41.99	42.06
5	43.63	41.26	41.20	41.14	41.30	41.26	40.87	40.20	40.18	42.29	42.37	41.99
6	43.06	41.34	41.17	41.20	41.32	41.30	40.78	40.19	40.18	42.21	42.93	42.12
7	42.54	41.33	41.13	42.60	41.32	41.31	40.70	40.19	40.18	42.00	42.89	42.88
8	42.25	41.32	41.11	42.28	41.30	41.31	40.64	40.19	40.18	41.98	42.38	44.27
9	42.28	41.27	41.13	41.89	41.26	41.32	40.61	40.19	40.19	42.49	42.03	43.61
10	41.97	41.21	41.21	41.70	41.29	41.17	40.57	40.19	40.20	41.98	41.83	43.07
11	41.76	41.24	41.27	41.60	41.32	41.14	40.54	40.19	40.20	41.62	41.74	42.62
12	41.70	41.25	41.17	41.49	41.34	41.19	40.50	40.19	40.20	41.40	41.99	42.42
13	41.66	41.23	41.10	41.40	41.24	41.12	40.46	40.19	40.20	41.26	42.45	42.37
14	41.56	41.24	41.16	41.31	41.17	41.01	41.17	40.19	40.20	41.17	42.18	42.34
15	41.47	41.19	41.25	41.25	41.17	41.01	41.45	40.19	40.20	41.68	42.09	42.38
16	41.42	41.01	41.28	41.30	41.18	41.11	41.23	40.19	40.20	42.49	42.05	42.30
17	41.43	40.90	41.26	41.34	41.27	41.10	41.08	40.19	40.21	42.03	41.94	43.86
18	41.36	40.85	42.19	41.23	41.15	41.08	40.98	40.19	40.21	41.70	41.82	43.78
19	41.30	40.91	42.97	41.31	41.17	41.46	40.90	40.19	40.20	41.55	41.72	43.08
20	41.39	40.92	42.33	41.45	41.27	41.32	40.86	40.19	40.21	41.46	41.64	42.74
21	41.47	40.89	41.89	41.34	41.13	41.18	40.77	40.19	40.26	41.42	41.58	43.05
22	41.52	40.95	41.69	41.25	41.07	41.14	40.71	40.19	41.03	42.12	41.51	42.74
23	41.51	41.04	41.57	41.21	41.19	41.07	40.70	40.19	40.97	42.39	41.46	42.52
24	41.46	41.13	41.48	42.15	41.24	41.00	40.77	40.19	40.85	42.68	41.40	42.30
25	41.35	41.99	41.37	42.16	41.11	40.98	40.76	40.33	41.18	42.83	41.32	42.26
26	41.31	43.24	41.30	41.74	41.01	40.92	40.60	40.52	42.55	43.45	41.90	42.16
27	41.30	42.53	41.30	41.66	40.99	40.94	40.49	40.34	42.40	42.94	42.03	42.16
28	41.28	41.94	41.41	41.67	41.11	40.99	40.40	40.21	42.52	42.84	41.86	42.01
29	41.30	41.68	41.40	41.57	41.09	40.97	40.30	40.18	41.94	42.35	41.98	41.87
30	41.29	41.52	41.38	41.42	---	41.13	40.22	40.18	41.86	42.19	42.58	41.76
31	41.30	---	41.33	41.35	---	41.16	---	40.18	---	42.13	42.32	---
MEAN	41.80	41.38	41.43	41.51	41.21	41.14	40.78	40.21	40.65	42.07	42.04	42.56
MAX	43.63	43.24	42.97	42.60	41.34	41.46	41.45	40.52	42.55	43.45	42.93	44.27
MIN	41.28	40.85	41.10	41.13	40.99	40.92	40.22	40.18	40.18	41.17	41.32	41.76

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	0.05	0.28	2.4	2.7	2.4	49	0.00	0.00	34	5.1	4.2
2	4.5	0.00	0.61	3.1	2.6	1.7	19	0.00	0.00	16	7.7	2.4
3	4.4	0.36	1.5	2.7	3.6	0.94	8.2	0.00	0.00	7.2	29	3.0
4	3.0	0.82	0.88	2.2	3.7	4.5	5.5	0.00	0.00	4.3	27	15
5	3.1	0.31	0.48	1.9	2.9	13	4.1	0.00	0.05	3.2	48	8.1
6	3.6	0.13	1.0	2.5	1.7	5.2	3.6	0.00	3.5	20	25	17
7	4.8	0.74	0.52	2.7	1.5	4.7	2.9	0.00	32	68	40	34
8	4.4	0.29	0.19	2.8	1.5	4.6	2.4	0.00	15	48	17	44
9	3.0	0.08	0.13	3.7	1.5	3.9	2.1	0.00	5.2	101	8.5	60
10	2.4	1.00	0.62	2.8	1.5	2.8	1.7	0.00	2.5	88	7.1	48
11	2.8	0.44	1.3	2.8	1.5	2.2	1.5	0.00	1.5	191	12	27
12	2.6	0.65	1.3	2.8	1.7	2.2	1.1	0.00	0.83	106	7.5	37
13	2.3	0.71	0.71	2.4	1.7	2.1	0.88	0.00	0.46	86	5.6	115
14	2.3	1.4	0.39	2.2	1.0	2.4	0.93	0.00	0.27	116	3.9	469
15	1.3	2.3	0.27	1.9	0.84	2.9	0.86	0.00	0.16	151	2.6	268
16	1.1	0.81	0.21	1.7	1.5	2.4	0.61	0.00	0.10	44	1.9	92
17	0.94	0.73	0.23	1.6	2.0	2.6	0.43	0.00	0.03	33	1.7	33
18	0.55	1.0	0.19	1.4	2.2	2.3	0.30	0.00	0.29	22	2.4	16
19	0.49	0.34	0.15	2.3	2.2	2.1	0.26	0.00	5.8	13	2.6	11
20	0.33	0.47	0.22	3.8	2.3	3.6	0.26	0.00	13	28	2.9	8.2
21	0.12	1.3	0.91	2.4	2.4	2.8	0.22	0.00	7.4	90	4.0	6.6
22	0.11	1.2	2.0	1.8	2.2	1.9	0.10	0.00	13	176	4.5	6.1
23	0.45	1.7	3.0	1.7	2.1	1.3	0.04	0.00	29	74	3.0	9.0
24	0.63	0.66	2.6	2.1	1.8	0.88	0.01	0.00	33	47	2.2	7.9
25	0.81	0.22	2.4	2.5	2.1	0.74	0.01	0.00	12	34	1.7	8.7
26	1.4	1.2	2.5	2.9	2.5	1.1	0.01	0.00	7.8	55	1.1	7.9
27	1.5	2.9	2.2	3.6	2.4	1.2	0.00	0.00	43	28	0.78	7.7
28	0.82	1.6	3.3	2.9	2.4	0.57	0.00	0.00	20	13	0.53	10
29	0.90	0.91	4.1	2.5	---	2.8	0.00	0.00	35	12	0.35	13
30	0.93	0.49	2.7	2.6	---	137	0.00	0.00	19	---	7.8	0.30
31	0.33	---	2.2	2.5	---	70	---	0.00	---	5.5	4.2	---
TOTAL	59.31	24.81	39.09	77.2	58.04	288.83	106.02	0.00	299.89	1722.0	280.16	1399.8
MEAN	1.91	0.83	1.26	2.49	2.07	9.32	3.53	0.000	10.0	55.5	9.04	46.7
MAX	4.8	2.9	4.1	3.8	3.7	137	49	0.00	43	191	48	469
MIN	0.11	0.00	0.13	1.4	0.84	0.57	0.00	0.00	0.00	3.2	0.30	2.4
CFSM	0.49	0.21	0.32	0.63	0.53	2.37	0.90	0.00	2.54	14.1	2.30	11.9
IN.	0.56	0.23	0.37	0.73	0.55	2.73	1.00	0.00	2.84	16.30	2.65	13.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	5.51	2.69	2.78	4.08	2.05	3.97	1.44	0.86	10.1	26.4	10.6	30.4
MAX	9.11	4.55	4.30	5.07	2.10	9.32	3.53	2.57	17.3	55.5	14.8	46.7
(WY)	2000	2000	2000	1999	2000	2001	2001	1999	1999	2001	2000	2001
MIN	1.91	0.83	1.26	2.49	1.98	0.85	0.26	0.000	3.13	6.77	7.79	7.70
(WY)	2001	2001	2001	2001	1999	1999	1999	2000	2000	1999	1999	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

ANNUAL TOTAL	2580.96	4355.15	
ANNUAL MEAN	7.05	11.9	10.1
HIGHEST ANNUAL MEAN			11.9
LOWEST ANNUAL MEAN			8.22
HIGHEST DAILY MEAN	207	Sep 8	469
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 26	0.00
MAXIMUM PEAK FLOW			809
MAXIMUM PEAK STAGE			45.63
ANNUAL RUNOFF (CFSM)	1.79	3.04	45.63
ANNUAL RUNOFF (INCHES)	24.43	41.22	2.56
10 PERCENT EXCEEDS	18	32	22
50 PERCENT EXCEEDS	1.9	2.2	2.4
90 PERCENT EXCEEDS	0.00	0.00	0.00

MYAKKA RIVER BASIN

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.77	41.08	41.17	41.48	41.52	41.47	43.07	40.43	---	42.87	41.69	41.65
2	41.86	41.00	41.27	41.57	41.51	41.35	42.48	40.33	---	42.34	41.85	41.44
3	41.86	41.19	41.47	41.53	41.64	41.21	42.00	---	---	41.85	42.75	41.45
4	41.72	41.33	41.34	41.45	41.65	41.55	41.80	---	---	41.61	42.63	42.37
5	41.74	41.17	41.24	41.40	41.55	42.30	41.67	---	40.25	41.49	43.09	41.97
6	41.79	41.09	41.38	41.50	41.37	41.81	41.62	---	41.35	42.00	42.64	42.47
7	41.89	41.31	41.25	41.53	41.34	41.76	41.54	---	42.80	43.31	42.97	42.87
8	41.85	41.17	41.13	41.53	41.33	41.75	41.47	---	42.28	42.95	42.35	43.05
9	41.73	41.05	41.09	41.64	41.33	41.67	41.41	---	41.68	43.60	41.94	43.24
10	41.65	41.36	41.28	41.54	41.34	41.52	41.35	---	41.40	43.45	41.83	43.09
11	41.70	41.23	41.43	41.54	41.33	41.44	41.31	---	41.23	44.11	42.12	42.75
12	41.68	41.29	41.43	41.54	41.37	41.42	41.24	---	41.10	43.63	41.87	42.72
13	41.64	41.31	41.31	41.48	41.37	41.42	41.20	---	41.01	43.48	41.73	43.69
14	41.64	41.44	41.22	41.46	41.25	41.46	41.21	---	40.94	43.59	41.57	44.88
15	41.47	41.60	41.17	41.41	41.21	41.55	41.19	---	40.88	43.86	41.41	44.41
16	41.42	41.33	41.14	41.37	41.32	41.46	41.13	---	40.84	43.02	41.31	43.50
17	41.40	41.30	41.15	41.36	41.41	41.49	41.08	---	40.79	42.84	41.26	42.86
18	41.31	41.38	41.12	41.32	41.44	41.45	41.03	---	40.83	42.56	41.38	42.43
19	41.29	41.20	41.10	41.46	41.44	41.42	41.02	---	41.72	42.20	41.41	42.18
20	41.23	41.23	41.11	41.65	41.45	41.64	41.01	---	42.18	42.48	41.45	42.00
21	41.13	41.42	41.27	41.48	41.47	41.52	40.99	---	41.87	43.50	41.58	41.87
22	41.12	41.41	41.44	41.39	41.44	41.39	40.93	---	42.17	44.03	41.63	41.83
23	41.27	41.49	41.57	41.38	41.43	41.28	40.88	---	42.73	43.37	41.47	42.06
24	41.33	41.29	41.52	41.43	41.36	41.20	40.84	---	42.82	43.10	41.36	41.99
25	41.37	41.14	41.48	41.49	41.42	41.17	40.83	---	42.11	42.87	41.26	42.05
26	41.48	41.38	41.50	41.55	41.48	41.25	40.81	---	41.85	43.19	41.17	42.00
27	41.51	41.67	41.46	41.64	41.46	41.27	40.74	---	43.02	42.70	41.10	41.99
28	41.37	41.48	41.59	41.55	41.46	41.12	40.68	---	42.48	42.21	41.03	42.15
29	41.39	41.35	41.69	41.49	---	41.31	40.62	---	42.88	42.17	40.97	42.30
30	41.40	41.25	41.52	41.51	---	43.77	40.53	---	42.44	41.89	40.95	42.20
31	41.22	---	41.45	41.49	---	43.31	---	---	---	41.72	41.61	---
MEAN	41.52	41.30	41.33	41.49	41.42	41.60	41.26	---	---	42.84	41.72	42.52
MAX	41.89	41.67	41.69	41.65	41.65	43.77	43.07	---	---	44.11	43.09	44.88
MIN	41.12	41.00	41.09	41.32	41.21	41.12	40.53	---	---	41.49	40.95	41.44

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	1.6	1.1	2.9	3.9	10	1.3	0.16	0.01	167	8.1	50
2	4.3	1.4	0.74	4.0	3.6	7.6	1.2	0.17	0.00	150	5.9	47
3	3.1	1.7	0.86	7.1	3.6	5.9	1.1	0.20	0.00	43	7.1	73
4	2.5	1.7	1.2	3.7	5.2	5.4	1.1	0.16	0.00	14	5.0	34
5	2.0	1.4	0.90	3.5	4.5	5.9	0.82	0.14	0.00	7.8	3.2	18
6	1.8	1.2	0.72	3.2	4.0	5.5	0.67	0.18	0.00	4.9	2.1	13
7	1.9	0.90	0.96	2.9	6.1	3.9	0.49	0.15	0.00	3.6	1.6	15
8	1.9	0.75	1.2	2.4	9.9	3.5	0.32	0.07	0.00	3.8	2.2	9.3
9	1.7	0.67	1.1	2.7	4.1	3.3	0.22	0.01	2.9	16	1.6	6.3
10	2.0	0.69	1.1	3.1	3.3	3.3	0.18	0.00	1.1	8.7	1.0	5.8
11	1.7	0.57	0.94	2.8	3.9	3.2	0.12	0.00	0.18	5.5	0.73	27
12	1.5	0.53	0.83	2.2	3.4	3.2	0.27	0.00	0.02	5.8	0.63	54
13	1.5	0.51	0.73	2.6	2.7	3.0	13	0.00	0.38	29	0.70	48
14	1.1	0.54	0.77	3.2	3.4	2.7	9.3	0.00	5.2	16	0.86	25
15	0.82	0.73	0.87	41	3.6	2.7	18	0.00	6.5	6.6	1.1	14
16	0.68	1.1	0.97	17	4.0	2.7	6.7	0.00	3.0	3.8	1.0	11
17	0.69	0.85	0.76	7.4	4.5	2.4	3.9	0.32	2.3	2.4	1.6	9.0
18	0.81	0.66	0.56	5.1	4.3	2.0	2.6	0.19	3.8	1.6	8.9	7.5
19	0.70	0.80	0.42	3.7	3.3	1.6	1.6	3.1	2.9	1.4	24	7.7
20	0.55	0.88	0.49	3.1	3.1	1.0	1.1	5.6	2.4	1.5	15	12
21	1.2	0.65	0.72	2.6	3.4	0.83	0.81	2.4	8.5	9.6	6.7	9.3
22	4.0	0.55	0.71	2.4	36	0.75	0.65	0.92	32	48	5.3	5.0
23	3.8	0.63	0.74	2.9	105	0.61	0.50	0.31	17	18	3.7	8.7
24	3.1	0.73	0.98	2.5	65	0.51	0.38	0.08	139	7.0	2.6	17
25	2.6	0.66	1.6	2.0	24	0.84	0.30	0.01	203	4.4	2.1	24
26	2.7	1.2	3.5	1.7	10	0.77	0.40	0.00	118	6.3	1.7	12
27	2.3	1.6	2.6	2.0	6.8	0.76	0.54	0.00	41	59	9.0	7.9
28	1.9	1.5	1.9	4.0	7.8	1.0	0.36	0.02	19	25	21	5.9
29	1.8	1.4	2.3	4.4	---	0.97	0.22	0.02	42	10	14	5.1
30	1.8	1.6	3.2	4.3	---	0.84	0.17	0.04	41	13	13	4.8
31	1.8	---	3.9	4.0	---	1.2	---	0.05	---	14	24	---
TOTAL	64.55	29.70	39.37	156.4	342.4	87.88	68.32	14.30	691.19	706.7	195.42	586.3
MEAN	2.08	0.99	1.27	5.05	12.2	2.83	2.28	0.46	23.0	22.8	6.30	19.5
MAX	6.3	1.7	3.9	41	105	10	18	5.6	203	167	24	73
MIN	0.55	0.51	0.42	1.7	2.7	0.51	0.12	0.00	0.00	1.4	0.63	4.8
CFSM	0.53	0.25	0.32	1.28	3.11	0.72	0.58	0.12	5.86	5.80	1.60	4.97
IN.	0.61	0.28	0.37	1.48	3.24	0.83	0.65	0.14	6.54	6.69	1.85	5.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	4.37	2.12	2.28	4.32	4.57	3.68	1.65	0.76	13.4	25.5	9.49	27.7
MAX	9.11	4.55	4.30	5.07	12.2	9.32	3.53	2.57	23.0	55.5	14.8	46.7
(WY)	2000	2000	2000	1999	2002	2001	2001	1999	2002	2001	2000	2001
MIN	1.91	0.83	1.26	2.49	1.98	0.85	0.26	0.000	3.13	6.77	6.30	7.70
(WY)	2001	2001	2001	2001	1999	1999	1999	2000	2000	1999	2002	1999

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1999 - 2002

ANNUAL TOTAL	4365.56	2982.53		
ANNUAL MEAN	12.0	8.17		
HIGHEST ANNUAL MEAN			9.44	
LOWEST ANNUAL MEAN			11.9	2001
HIGHEST DAILY MEAN	469	Sep 14	8.17	2002
LOWEST DAILY MEAN	0.00	Many Days	469	Sep 14 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 27	0.00	Many Days
MAXIMUM PEAK FLOW			0.00	May 10
MAXIMUM PEAK STAGE			0.00	Apr 26 2000
ANNUAL RUNOFF (CFSM)	3.04		375	Jun 24 2001
ANNUAL RUNOFF (INCHES)	41.32		44.76	Sep 14 2001
10 PERCENT EXCEEDS	32		2.08	
50 PERCENT EXCEEDS	2.1		28.23	
90 PERCENT EXCEEDS	0.00		17	
			2.4	
			0.19	
			0.00	

MYAKKA RIVER BASIN

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.90	41.31	41.22	41.53	41.73	42.19	41.40	41.11	41.02	43.98	42.25	43.13
2	41.71	41.27	41.13	41.62	41.70	42.05	41.37	41.12	40.84	43.90	42.09	43.03
3	41.58	41.33	41.16	41.95	41.69	41.92	41.36	41.15	40.70	43.17	42.19	43.35
4	41.49	41.34	41.23	41.64	41.86	41.89	41.35	41.12	40.56	42.57	42.02	42.87
5	41.43	41.29	41.17	41.62	41.79	41.93	41.29	41.11	40.43	42.23	41.83	42.42
6	41.38	41.24	41.13	41.58	41.74	41.90	41.26	41.13	40.66	42.01	41.67	42.20
7	41.41	41.17	41.19	41.54	41.88	41.75	41.21	41.13	40.68	41.88	41.60	42.31
8	41.41	41.14	41.23	41.45	42.16	41.71	41.15	41.07	40.66	41.88	41.69	41.99
9	41.37	41.11	41.21	41.50	41.75	41.69	41.10	40.99	41.74	42.62	41.60	41.79
10	41.41	41.12	41.21	41.56	41.66	41.69	41.08	40.88	41.45	42.30	41.49	41.74
11	41.37	41.08	41.18	41.51	41.73	41.68	41.05	40.79	41.20	42.06	41.42	42.58
12	41.33	41.07	41.16	41.42	41.68	41.68	41.06	40.62	41.08	42.07	41.40	43.19
13	41.34	41.07	41.13	41.51	41.58	41.65	42.31	40.47	41.18	42.96	41.41	43.11
14	41.26	41.08	41.14	41.58	41.67	41.62	42.13	40.31	42.00	42.61	41.42	42.64
15	41.20	41.13	41.17	43.03	41.70	41.62	42.51	40.19	42.11	42.14	41.44	42.28
16	41.17	41.20	41.19	42.48	41.74	41.61	41.98	40.18	41.77	41.90	41.39	42.07
17	41.18	41.16	41.14	42.03	41.79	41.57	41.75	41.11	41.69	41.72	41.44	41.98
18	41.20	41.11	41.08	41.84	41.77	41.51	41.60	41.16	41.88	41.59	42.09	41.88
19	41.18	41.14	41.04	41.71	41.66	41.44	41.47	41.59	41.78	41.56	42.68	41.87
20	41.14	41.16	41.06	41.64	41.64	41.34	41.37	41.96	41.71	41.58	42.38	42.18
21	41.26	41.10	41.13	41.57	41.67	41.30	41.32	41.63	42.07	41.95	41.95	42.00
22	41.67	41.08	41.12	41.54	42.49	41.28	41.28	41.39	43.00	43.23	41.85	41.67
23	41.65	41.10	41.13	41.62	43.63	41.24	41.24	41.22	42.63	42.69	41.69	41.96
24	41.56	41.13	41.19	41.55	43.28	41.22	41.21	41.11	43.77	42.17	41.55	42.36
25	41.49	41.11	41.31	41.48	42.65	41.30	41.18	41.02	44.16	41.96	41.47	42.61
26	41.50	41.24	41.61	41.44	42.19	41.28	41.22	40.96	43.76	42.02	41.41	42.13
27	41.44	41.32	41.49	41.47	41.99	41.28	41.25	40.96	43.14	43.34	41.93	41.90
28	41.37	41.28	41.36	41.74	42.05	41.34	41.20	41.06	42.68	42.87	42.58	41.76
29	41.34	41.28	41.44	41.78	---	41.33	41.14	41.06	43.17	42.38	42.35	41.69
30	41.36	41.32	41.58	41.77	---	41.30	41.12	41.09	42.94	42.55	42.25	41.66
31	41.36	---	41.66	41.74	---	41.37	---	41.10	---	42.55	42.61	---
MEAN	41.40	41.18	41.23	41.69	41.96	41.57	41.40	41.03	41.88	42.40	41.84	42.28
MAX	41.90	41.34	41.66	43.03	43.63	42.19	42.51	41.96	44.16	43.98	42.68	43.35
MIN	41.14	41.07	41.04	41.42	41.58	41.22	41.05	40.18	40.43	41.56	41.39	41.66

MYAKKA RIVER BASIN

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

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

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

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	3.0	1.3	3.1	2.7	0.69	0.24	e0.00	e0.00	0.01	e20	e8.0
2	44	6.0	1.1	3.5	2.6	0.47	0.03	e0.00	e0.00	0.55	e19	e8.0
3	37	5.1	1.0	3.4	2.4	0.26	0.00	e0.00	e0.00	0.01	e18	e8.0
4	35	3.8	0.96	3.2	2.4	0.25	0.00	e0.00	e0.00	0.00	e23	e7.8
5	64	3.1	0.87	3.2	2.3	0.47	0.00	e0.00	e0.00	0.00	e25	e8.3
6	64	2.6	0.83	2.7	2.3	0.66	0.00	e0.00	e0.00	0.00	e35	e17
7	55	2.7	0.83	5.5	2.9	0.54	0.00	e0.00	e0.00	0.00	e27	e37
8	55	2.7	0.80	8.5	4.3	0.49	0.00	e0.00	e0.00	0.00	e21	e78
9	64	2.2	0.77	10	2.9	0.49	0.00	e0.00	0.00	0.06	e17	e54
10	52	1.9	0.87	9.5	2.1	0.49	0.00	e0.00	0.00	0.07	e13	e40
11	42	1.7	1.1	8.5	1.8	0.41	0.00	e0.00	0.00	0.00	e17	e33
12	32	1.6	1.1	7.1	1.8	0.22	0.00	e0.00	0.00	0.00	e24	e27
13	25	1.6	1.3	5.8	1.5	0.04	0.00	e0.00	0.00	0.00	e33	e22
14	24	1.5	1.5	4.7	1.6	0.00	0.02	e0.00	0.00	0.00	e35	e18
15	24	1.5	1.8	3.8	1.5	0.05	0.26	e0.00	0.00	1.0	e41	e15
16	17	1.4	1.9	3.5	1.2	0.01	0.20	e0.00	0.00	4.3	e25	e14
17	17	1.4	2.1	3.1	1.1	0.00	0.03	e0.00	0.00	3.0	e25	e110
18	14	1.3	6.7	3.0	1.1	0.48	0.00	e0.00	0.00	2.4	e21	e128
19	11	1.1	15	2.8	1.2	9.7	0.00	e0.00	0.00	1.8	e17	e118
20	10	1.1	9.4	2.6	1.0	8.0	0.00	e0.00	0.00	1.1	e14	e108
21	9.6	1.0	6.8	2.4	0.95	5.2	0.00	e0.00	0.00	0.28	e11	e96
22	8.5	0.96	5.5	2.1	0.90	3.5	0.00	e0.00	0.00	2.6	e9.2	e87
23	7.0	0.89	4.9	1.9	0.75	2.9	0.00	e0.00	0.00	5.6	e9.0	e79
24	5.9	0.89	4.4	4.2	0.69	2.5	0.00	e0.00	0.00	8.6	e8.6	e72
25	4.9	1.7	3.8	5.2	0.67	2.2	0.00	e0.00	0.00	14	e7.5	e65
26	4.3	2.8	3.4	4.2	0.52	1.7	0.00	e0.00	0.00	18	e6.8	e59
27	3.7	2.4	3.1	3.6	0.48	1.4	e0.00	e0.00	0.00	17	e6.0	e53
28	3.1	2.0	3.3	3.2	0.53	1.2	e0.00	e0.00	0.00	43	e7.0	47
29	2.8	1.7	3.6	2.9	0.62	1.1	e0.00	e0.00	0.00	e20	e8.0	41
30	2.4	1.5	3.4	2.6	---	1.2	e0.00	e0.00	0.00	e21	e9.4	36
31	2.4	---	3.1	2.5	---	0.64	---	e0.00	---	e22	e9.0	---
TOTAL	794.6	63.14	96.53	132.3	46.81	47.26	0.78	0.00	0.00	186.38	561.5	1494.1
MEAN	25.6	2.10	3.11	4.27	1.61	1.52	0.026	0.000	0.000	6.01	18.1	49.8
MAX	64	6.0	15	10	4.3	9.7	0.26	0.00	0.00	43	41	128
MIN	2.4	0.89	0.77	1.9	0.48	0.00	0.00	0.00	0.00	0.00	6.0	7.8
CFSM	2.94	0.24	0.36	0.49	0.19	0.18	0.00	0.00	0.00	0.69	2.08	5.72
IN.	3.39	0.27	0.41	0.57	0.20	0.20	0.00	0.00	0.00	0.80	2.40	6.38

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000
MEAN	25.6	2.10	3.11	8.05	2.96	1.93	0.14	2.35	39.1	43.2	64.8	43.4
MAX	25.6	2.10	3.11	11.8	4.36	2.35	0.25	4.70	78.2	80.3	112	49.8
(WY)	2000	2000	2000	1999	1999	1999	1999	1999	1999	1999	1999	2000
MIN	25.6	2.10	3.11	4.27	1.61	1.52	0.026	0.000	0.000	6.01	18.1	37.0
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL TOTAL	11069.10	3423.40		
ANNUAL MEAN	30.3	9.35		
HIGHEST ANNUAL MEAN			9.35	2000
LOWEST ANNUAL MEAN			9.35	2000
HIGHEST DAILY MEAN	446	Aug 23	e128	Sep 18
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 13	0.00	Apr 3
MAXIMUM PEAK FLOW			128	Sep 18
MAXIMUM PEAK STAGE			46.22	Aug 23 1999
ANNUAL RUNOFF (CFSM)	3.48		1.07	
ANNUAL RUNOFF (INCHES)	47.28		14.62	
10 PERCENT EXCEEDS	92		28	
50 PERCENT EXCEEDS	5.9		1.8	
90 PERCENT EXCEEDS	0.77		0.00	

MYAKKA RIVER BASIN

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44.25	42.74	42.39	42.72	42.68	42.73	42.67	---	---	42.39	---	---
2	44.12	42.97	42.37	42.75	42.66	42.71	42.62	---	---	42.72	---	---
3	44.02	42.91	42.36	42.74	42.64	42.68	42.56	---	---	42.54	---	---
4	43.99	42.80	42.34	42.73	42.64	42.68	42.52	---	---	42.44	---	---
5	44.34	42.72	42.33	42.72	42.63	42.71	42.50	---	---	42.55	---	---
6	44.35	42.66	42.32	42.68	42.63	42.74	42.46	---	---	42.44	---	---
7	44.26	42.66	42.32	42.90	42.69	42.73	42.42	---	---	42.42	---	---
8	44.25	42.66	42.32	43.07	42.82	42.72	42.39	---	---	42.50	---	---
9	44.35	42.59	42.31	43.16	42.72	42.72	42.37	---	41.09	42.62	---	---
10	44.22	42.54	42.33	43.12	42.63	42.72	42.35	---	41.06	42.63	---	---
11	44.08	42.52	42.36	43.08	42.62	42.71	42.35	---	41.02	42.51	---	---
12	43.94	42.49	42.37	43.00	42.63	42.67	42.37	---	41.04	42.39	---	---
13	43.82	42.47	42.39	42.93	42.61	42.62	42.37	---	41.20	42.29	---	---
14	43.79	42.46	42.43	42.85	42.63	42.60	42.51	---	41.26	42.21	---	---
15	43.77	42.44	42.47	42.78	42.63	42.63	42.68	---	41.27	42.54	---	---
16	43.57	42.43	42.49	42.75	42.60	42.61	42.67	---	41.27	43.10	---	---
17	43.56	42.41	42.52	42.72	42.60	42.58	42.61	---	41.31	43.00	---	---
18	43.46	42.39	42.85	42.70	42.62	42.64	42.54	---	41.93	42.95	---	---
19	43.35	42.37	43.33	42.69	42.64	43.36	42.47	---	41.99	42.89	---	---
20	43.31	42.36	43.12	42.67	42.64	43.29	42.42	---	41.96	42.80	---	---
21	43.26	42.36	42.99	42.64	42.64	43.15	42.37	---	41.98	42.68	---	---
22	43.19	42.34	42.91	42.61	42.65	43.05	42.33	---	42.12	42.93	---	---
23	43.11	42.33	42.86	42.58	42.64	43.00	42.29	---	42.03	43.16	---	---
24	43.03	42.33	42.83	42.80	42.64	42.96	42.26	---	42.01	43.30	---	---
25	42.96	42.46	42.79	42.89	42.66	42.93	42.24	---	42.22	43.45	---	---
26	42.90	42.60	42.75	42.82	42.65	42.88	42.21	---	42.47	43.54	---	---
27	42.85	42.55	42.72	42.77	42.65	42.84	---	---	42.47	43.43	---	---
28	42.78	42.50	42.74	42.73	42.68	42.82	---	---	42.48	44.07	---	44.13
29	42.74	42.45	42.77	42.69	42.71	42.81	---	---	42.38	---	---	44.05
30	42.69	42.42	42.75	42.67	---	42.82	---	---	42.34	---	---	43.97
31	42.69	---	42.72	42.66	---	42.74	---	---	---	---	---	---
MEAN	43.58	42.53	42.60	42.79	42.65	42.80	---	---	---	---	---	---
MAX	44.35	42.97	43.33	43.16	42.82	43.36	---	---	---	---	---	---
MIN	42.69	42.33	42.31	42.58	42.60	42.58	---	---	---	---	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	1.3	0.75	1.0	0.58	0.80	102	1.2	0.01	129	68	36
2	41	1.1	0.61	1.1	0.55	0.76	68	1.1	0.00	115	60	25
3	35	1.0	0.59	1.1	0.54	0.71	56	0.93	0.00	127	112	19
4	28	0.94	0.59	0.99	0.51	1.8	48	0.91	0.00	113	125	14
5	22	0.88	0.54	0.85	0.50	6.8	40	0.86	0.01	133	101	10
6	20	0.83	0.46	0.91	0.51	4.9	32	0.74	2.1	104	77	9.4
7	19	0.81	0.42	0.93	0.46	3.3	26	0.67	17	87	63	20
8	16	0.74	0.38	0.98	0.53	2.8	22	0.51	8.7	74	50	28
9	13	0.69	0.39	0.99	0.85	2.7	20	0.56	5.3	66	58	e31
10	11	0.65	0.38	0.69	0.99	2.4	17	0.55	2.9	76	94	e37
11	9.5	0.65	0.39	0.54	0.72	2.0	15	0.49	1.5	185	213	49
12	8.7	0.60	0.51	0.62	0.59	1.8	13	0.41	0.71	218	149	64
13	7.7	0.50	0.52	0.64	0.54	1.9	11	0.37	0.19	254	102	122
14	6.9	0.54	0.44	0.59	0.69	2.2	9.4	0.49	0.02	287	77	1050
15	6.3	0.75	0.39	0.49	1.0	1.9	7.4	0.45	0.56	486	62	1900
16	9.1	0.67	0.30	0.39	1.2	1.6	5.7	0.27	9.4	302	51	1370
17	11	0.63	0.33	0.47	1.4	1.3	4.4	0.17	3.5	255	48	700
18	9.0	0.65	0.30	0.61	1.6	1.1	3.5	0.17	1.9	214	35	350
19	7.1	0.58	0.26	0.73	1.5	1.4	3.2	0.15	7.4	146	31	201
20	5.6	0.53	0.25	0.61	1.1	2.1	2.9	0.11	7.3	116	37	146
21	4.5	0.44	0.22	0.51	0.90	2.1	2.7	0.04	6.3	102	33	129
22	3.9	0.35	0.22	0.46	0.61	1.6	3.1	0.04	10	319	28	120
23	3.2	0.29	0.22	0.51	0.67	1.1	2.7	0.03	23	435	23	100
24	2.7	0.26	0.31	0.76	0.82	0.98	2.3	0.01	50	465	20	80
25	2.4	0.25	0.54	0.74	0.71	0.88	2.2	0.01	39	332	17	72
26	2.2	1.1	0.73	0.53	0.81	0.75	2.0	0.01	45	237	14	67
27	2.0	1.4	0.83	0.40	1.0	0.59	1.8	0.01	49	169	11	64
28	1.8	1.2	1.3	0.34	0.72	0.54	1.6	0.01	50	122	9.6	57
29	1.6	1.0	2.1	0.32	---	4.2	1.3	0.01	75	99	7.9	54
30	1.5	0.89	1.6	0.40	---	161	1.3	0.00	65	90	7.2	48
31	1.4	---	1.2	0.54	---	95	---	0.00	---	75	25	---
TOTAL	345.1	22.22	18.07	20.74	22.60	313.01	527.5	11.28	480.80	5932	1808.7	6972.4
MEAN	11.1	0.74	0.58	0.67	0.81	10.1	17.6	0.36	16.0	191	58.3	232
MAX	41	1.4	2.1	1.1	1.6	161	102	1.2	75	486	213	1900
MIN	1.4	0.25	0.22	0.32	0.46	0.54	1.3	0.00	0.00	66	7.2	9.4
CFSM	1.28	0.09	0.07	0.08	0.09	1.16	2.02	0.04	1.84	22.0	6.70	26.7
IN.	1.47	0.09	0.08	0.09	0.10	1.34	2.25	0.05	2.05	25.34	7.72	29.78

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	18.4	1.42	1.85	5.59	2.25	4.66	5.95	1.69	31.4	92.6	62.7	106
MAX	25.6	2.10	3.11	11.8	4.36	10.1	17.6	4.70	78.2	191	112	232
(WY)	2000	2000	2000	1999	1999	2001	2001	1999	1999	2001	1999	2001
MIN	11.1	0.74	0.58	0.67	0.81	1.52	0.026	0.000	0.000	6.01	18.1	37.0
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1999 - 2001

ANNUAL TOTAL	2854.52	16474.42		
ANNUAL MEAN	7.80	45.1		
HIGHEST ANNUAL MEAN			27.2	
LOWEST ANNUAL MEAN			45.1	2001
HIGHEST DAILY MEAN	128	Sep 18	9.35	2000
LOWEST DAILY MEAN	0.00	Many Days	1900	Sep 15 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 3	0.00	Many Days
MAXIMUM PEAK FLOW			0.00	May 29
MAXIMUM PEAK STAGE			2040	Sep 15 1999
ANNUAL RUNOFF (CFSM)	0.90		2040	Sep 15 2001
ANNUAL RUNOFF (INCHES)	12.19		48.40	Sep 15 2001
10 PERCENT EXCEEDS	22		5.18	
50 PERCENT EXCEEDS	0.94		70.36	
90 PERCENT EXCEEDS	0.00		64	
			1.8	
			0.34	
			0.00	

MYAKKA RIVER BASIN

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.92	42.37	42.29	42.43	42.55	42.59	44.72	42.57	42.25	44.86	44.43	44.02
2	44.09	42.34	42.26	42.45	42.54	42.59	44.43	42.55	42.22	44.77	44.35	43.81
3	43.99	42.32	42.26	42.46	42.54	42.58	44.29	42.50	42.15	44.85	44.79	43.66
4	43.86	42.30	42.26	42.44	42.51	42.71	44.18	42.50	42.16	44.76	44.88	43.52
5	43.74	42.28	42.25	42.41	42.50	43.12	44.06	42.49	42.32	44.89	44.72	43.40
6	43.68	42.26	42.23	42.43	42.51	43.00	43.92	42.46	42.59	44.69	44.53	43.36
7	43.67	42.26	42.22	42.45	42.48	42.88	43.80	42.44	43.44	44.55	44.38	43.67
8	43.57	42.25	42.22	42.47	42.53	42.85	43.71	42.40	43.16	44.42	44.22	43.85
9	43.48	42.23	42.22	42.48	42.60	42.84	43.65	42.43	42.97	44.33	44.29	---
10	43.40	42.22	42.22	42.41	42.62	42.80	43.59	42.42	42.78	44.43	44.66	---
11	43.34	42.22	42.23	42.38	42.58	42.76	43.52	42.41	42.62	45.20	45.33	44.17
12	43.28	42.21	42.25	42.41	42.55	42.73	43.44	42.39	42.50	45.36	45.01	44.30
13	43.21	42.19	42.26	42.44	42.54	42.74	43.37	42.39	42.41	45.51	44.73	44.82
14	43.14	42.20	42.25	42.45	42.57	42.78	43.30	42.47	42.35	45.60	44.53	46.99
15	43.09	42.25	42.24	42.45	42.62	42.74	43.21	42.46	42.40	46.23	44.37	48.27
16	43.30	42.22	42.23	42.44	42.65	42.70	43.11	42.38	43.17	45.70	44.24	47.70
17	43.41	42.22	42.23	42.49	42.67	42.67	43.02	42.35	42.83	45.52	44.19	46.70
18	43.30	42.22	42.23	42.56	42.70	42.64	42.94	42.39	42.66	45.34	44.00	45.85
19	43.15	42.21	42.22	42.58	42.69	42.68	42.89	42.41	43.08	44.99	43.93	45.27
20	43.01	42.21	42.23	42.56	42.64	42.77	42.87	42.38	43.08	44.82	44.03	44.98
21	42.90	42.19	42.22	42.51	42.61	42.77	42.83	42.34	43.03	44.72	43.97	44.86
22	42.82	42.18	42.22	42.49	42.56	42.70	42.89	42.37	43.22	45.69	43.86	44.80
23	42.73	42.17	42.22	42.51	42.57	42.64	42.85	42.36	43.57	46.11	43.77	44.66
24	42.66	42.16	42.24	42.59	42.60	42.62	42.78	42.28	44.12	46.19	43.68	44.49
25	42.60	42.16	42.30	42.59	42.58	42.60	42.77	42.27	43.95	45.80	43.60	44.42
26	42.56	42.37	42.36	42.52	42.59	42.59	42.71	42.28	44.05	45.44	43.52	44.36
27	42.53	42.44	42.38	42.45	42.63	42.55	42.67	42.28	44.12	45.11	43.44	44.33
28	42.49	42.39	42.47	42.42	42.58	42.53	42.65	42.25	44.13	44.86	43.37	44.25
29	42.45	42.35	42.63	42.41	---	42.76	42.59	42.27	44.43	44.71	43.28	44.21
30	42.42	42.32	42.54	42.45	---	45.00	42.58	42.21	44.32	44.65	43.23	44.13
31	42.39	---	42.47	42.53	---	44.68	---	42.23	---	44.50	43.77	---
MEAN	43.17	42.26	42.29	42.47	42.58	42.86	43.31	42.38	43.07	45.12	44.16	---
MAX	44.09	42.44	42.63	42.59	42.70	45.00	44.72	42.57	44.43	46.23	45.33	---
MIN	42.39	42.16	42.22	42.38	42.48	42.53	42.58	42.21	42.15	44.33	43.23	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	9.1	1.2	0.32	2.3	18	8.8	0.61	1.3	267	62	251
2	32	8.3	1.1	0.61	2.0	15	5.7	0.58	0.96	224	121	248
3	27	7.5	0.90	1.7	1.8	17	4.0	0.67	0.65	227	166	152
4	24	7.2	0.87	1.4	1.7	15	3.5	0.47	0.41	165	175	103
5	19	7.3	0.83	1.2	1.9	12	3.1	0.54	0.23	118	109	80
6	15	6.1	0.83	1.3	1.9	9.0	2.8	0.86	0.10	90	84	65
7	13	5.2	0.79	1.4	1.7	8.5	2.7	0.93	0.01	74	72	54
8	12	4.4	1.0	1.2	1.9	7.0	2.7	0.32	0.38	64	68	45
9	12	4.2	1.1	0.94	1.7	5.4	2.8	0.21	6.0	80	57	38
10	11	3.8	1.2	0.89	1.9	5.4	2.7	0.04	4.0	66	47	31
11	10	3.5	1.2	0.76	2.5	4.8	2.5	0.00	2.7	57	38	29
12	9.0	3.2	1.0	0.65	2.6	4.5	2.5	0.00	1.9	66	31	42
13	7.6	3.1	0.94	0.65	2.6	4.4	5.0	0.00	1.2	105	29	65
14	7.0	2.9	0.78	0.98	3.1	4.3	4.6	0.00	1.0	114	38	52
15	6.7	2.7	0.73	6.8	3.4	4.0	3.6	0.00	0.96	101	89	49
16	5.5	2.5	0.57	6.5	3.4	3.5	2.9	0.00	0.76	86	60	44
17	5.3	2.1	0.54	5.7	3.2	3.3	2.7	0.24	0.54	71	52	38
18	5.0	2.2	0.69	4.8	3.5	3.4	2.6	0.14	1.5	62	69	32
19	5.3	2.4	0.73	4.0	3.5	5.2	2.6	14	2.9	66	216	27
20	5.0	2.2	0.57	3.6	3.4	4.0	2.5	11	5.6	63	232	25
21	8.4	2.1	0.42	4.1	3.5	3.4	2.3	4.1	15	57	106	26
22	33	2.2	0.32	4.0	18	3.4	2.0	2.9	26	50	77	21
23	22	2.1	0.32	3.7	59	3.3	2.0	2.7	31	47	62	19
24	18	1.8	0.30	3.5	53	3.2	1.9	2.5	70	44	52	18
25	16	1.8	0.23	3.3	36	4.5	1.7	2.3	240	41	44	18
26	17	1.6	0.46	3.2	33	16	1.6	2.0	259	39	40	19
27	16	1.4	0.47	3.4	29	8.2	1.5	1.8	258	57	60	17
28	14	1.4	0.40	3.6	23	5.0	1.1	1.7	230	46	120	15
29	12	1.3	0.35	3.6	---	3.9	1.00	1.9	208	38	187	13
30	10	1.3	0.32	3.5	---	3.4	0.99	1.8	144	38	203	12
31	9.1	---	0.32	2.8	---	4.8	---	1.6	---	68	182	---
TOTAL	445.9	106.9	21.48	84.10	304.5	212.8	86.39	55.91	1514.10	2691	2948	1648
MEAN	14.4	3.56	0.69	2.71	10.9	6.86	2.88	1.80	50.5	86.8	95.1	54.9
MAX	39	9.1	1.2	6.8	59	18	8.8	14	259	267	232	251
MIN	5.0	1.3	0.23	0.32	1.7	3.2	0.99	0.00	0.01	38	29	12
CFSM	1.65	0.41	0.08	0.31	1.25	0.79	0.33	0.21	5.79	9.97	10.9	6.31
IN.	1.90	0.46	0.09	0.36	1.30	0.91	0.37	0.24	6.47	11.49	12.59	7.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	17.0	2.14	1.46	4.87	4.39	5.21	5.18	1.72	36.2	91.1	70.8	93.5
MAX	25.6	3.56	3.11	11.8	10.9	10.1	17.6	4.70	78.2	191	112	232
(WY)	2000	2002	2000	1999	2002	2001	2001	1999	1999	2001	1999	2001
MIN	11.1	0.74	0.58	0.67	0.81	1.52	0.026	0.000	0.000	6.01	18.1	37.0
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1999 - 2002

ANNUAL TOTAL	16663.31	10119.08		
ANNUAL MEAN	45.7	27.7		
HIGHEST ANNUAL MEAN			27.4	
LOWEST ANNUAL MEAN			45.1	2001
HIGHEST DAILY MEAN			9.35	2000
LOWEST DAILY MEAN	1900	Sep 15	267	Jul 1
ANNUAL SEVEN-DAY MINIMUM	0.00	Many Days	0.00	Many Days
MAXIMUM PEAK FLOW	0.00	May 29	0.01	May 10
MAXIMUM PEAK STAGE			340	Aug 19
ANNUAL RUNOFF (CFSM)	5.24		45.85	Aug 19
ANNUAL RUNOFF (INCHES)	71.17		3.18	
10 PERCENT EXCEEDS	112		43.22	
50 PERCENT EXCEEDS	2.8		75	
90 PERCENT EXCEEDS	0.40		4.1	
			0.61	
				0.01

MYAKKA RIVER BASIN

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.99	43.06	42.40	42.24	42.58	43.57	43.27	42.39	42.53	45.61	44.37	45.59
2	43.85	43.02	42.38	42.30	42.54	43.49	43.11	42.38	42.47	45.45	44.82	45.58
3	43.74	42.98	42.35	42.50	42.51	43.55	42.99	42.41	42.41	45.46	45.17	45.18
4	43.70	42.96	42.35	42.44	42.50	43.50	42.93	42.35	42.36	45.18	45.22	44.89
5	43.56	42.97	42.34	42.41	42.53	43.38	42.87	42.37	42.31	44.91	44.84	44.68
6	43.45	42.90	42.34	42.42	42.52	43.28	42.84	42.45	42.28	44.68	44.62	44.50
7	43.37	42.84	42.33	42.44	42.50	43.26	42.82	42.47	42.24	44.50	44.49	44.35
8	43.34	42.79	42.37	42.41	42.53	43.19	42.82	42.31	42.30	44.39	44.44	44.21
9	43.33	42.77	42.38	42.36	42.50	43.09	42.83	42.28	43.04	44.57	44.30	44.08
10	43.30	42.74	42.40	42.35	42.52	43.10	42.81	42.22	42.88	44.41	44.14	43.94
11	43.27	42.71	42.40	42.33	42.62	43.06	42.79	42.13	42.74	44.30	43.97	43.90
12	43.23	42.68	42.37	42.31	42.63	43.04	42.78	42.08	42.62	44.40	43.84	44.14
13	43.16	42.67	42.36	42.31	42.63	43.03	43.06	42.17	42.52	44.81	43.78	44.50
14	43.13	42.65	42.33	42.37	42.68	43.02	43.05	42.08	42.47	44.88	43.96	44.32
15	43.11	42.63	42.32	42.97	42.71	42.99	42.94	42.04	42.46	44.78	44.66	44.28
16	43.04	42.60	42.30	42.96	42.71	42.93	42.85	42.07	42.43	44.64	44.34	44.19
17	43.03	42.56	42.29	42.91	42.69	42.90	42.82	42.28	42.39	44.48	44.21	44.08
18	43.01	42.56	42.32	42.84	42.72	42.91	42.81	42.27	42.54	44.36	44.36	43.95
19	43.03	42.59	42.32	42.77	42.73	43.08	42.80	43.08	42.74	44.41	45.40	43.84
20	43.01	42.56	42.30	42.74	42.71	42.98	42.77	43.31	42.96	44.38	45.46	43.80
21	43.12	42.55	42.27	42.78	42.74	42.92	42.74	42.98	43.39	44.29	44.81	43.83
22	43.77	42.57	42.25	42.77	43.32	42.92	42.71	42.83	43.72	44.19	44.54	43.69
23	43.52	42.54	42.24	42.75	44.27	42.90	42.69	42.80	43.84	44.15	44.36	43.63
24	43.39	42.51	42.24	42.72	44.19	42.89	42.69	42.77	44.26	44.09	44.22	43.61
25	43.33	42.50	42.22	42.70	43.95	42.96	42.63	42.72	45.51	44.03	44.09	43.61
26	43.36	42.47	42.27	42.69	43.90	43.52	42.62	42.68	45.58	44.00	44.03	43.62
27	43.32	42.45	42.28	42.71	43.83	43.24	42.59	42.64	45.58	44.30	44.30	43.57
28	43.26	42.45	42.26	42.74	43.71	43.07	42.50	42.62	45.46	44.12	44.95	43.49
29	43.20	42.43	42.26	42.74	---	42.97	42.48	42.65	45.37	43.99	45.31	43.42
30	43.12	42.44	42.24	42.73	---	42.91	42.48	42.64	45.05	43.98	45.39	43.40
31	43.06	---	42.24	42.65	---	43.04	---	42.60	---	44.44	45.31	---
MEAN	43.33	42.67	42.31	42.59	42.93	43.12	42.80	42.49	43.28	44.52	44.57	44.13
MAX	43.99	43.06	42.40	42.97	44.27	43.57	43.27	43.31	45.58	45.61	45.46	45.59
MIN	43.01	42.43	42.22	42.24	42.50	42.89	42.48	42.04	42.24	43.98	43.78	43.40

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298530 COKER CREEK NEAR MYAKKA CITY, FL

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

DRAINAGE AREA.--6.59 mi².

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

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

REMARKS.--Records good except those for discharges above 100 ft³/s, which are considered poor due to poor rating definition.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3.7	1.8	20	49	21	30
2	---	---	---	---	---	---	3.6	1.6	13	60	17	23
3	---	---	---	---	---	---	3.3	1.8	18	61	14	24
4	---	---	---	---	---	---	3.0	1.3	38	56	17	22
5	---	---	---	---	---	---	2.7	0.99	40	40	41	21
6	---	---	---	---	---	---	3.1	1.1	33	30	e94	20
7	---	---	---	---	---	---	4.5	1.0	26	24	e102	22
8	---	---	---	---	---	---	3.4	1.4	21	27	e92	17
9	---	---	---	---	---	---	3.0	1.4	19	35	74	16
10	---	---	---	---	---	---	3.0	1.1	16	46	55	15
11	---	---	---	---	---	---	2.6	4.2	13	36	40	12
12	---	---	---	---	---	---	1.9	4.4	10	31	56	12
13	---	---	---	---	---	---	1.6	5.6	13	28	42	11
14	---	---	---	---	---	---	1.5	3.1	35	24	27	13
15	---	---	---	---	---	---	1.4	2.3	26	26	20	13
16	---	---	---	---	---	---	1.3	1.7	50	22	16	10
17	---	---	---	---	---	---	1.4	1.4	53	18	14	8.6
18	---	---	---	---	---	---	1.8	1.4	e97	17	16	11
19	---	---	---	---	---	---	1.6	1.2	e72	15	23	9.9
20	---	---	---	---	---	---	1.4	1.8	e52	14	27	33
21	---	---	---	---	---	---	1.3	1.4	e42	12	25	28
22	---	---	---	---	---	---	1.2	1.4	e38	11	33	17
23	---	---	---	---	---	---	1.2	1.2	e37	11	e86	12
24	---	---	---	---	---	---	1.2	0.99	e47	9.8	70	10
25	---	---	---	---	---	---	1.1	0.78	e39	8.6	72	10
26	---	---	---	---	---	---	1.1	0.69	37	7.7	58	9.9
27	---	---	---	---	---	---	1.0	0.56	50	10	48	16
28	---	---	---	---	---	---	0.94	0.50	74	32	39	85
29	---	---	---	---	---	---	1.0	3.0	50	22	30	87
30	---	---	---	---	---	---	1.4	2.2	51	24	23	78
31	---	---	---	---	---	---	---	4.9	---	24	25	---
TOTAL	---	---	---	---	---	---	61.24	144.61	1130	831.1	1317	696.4
MEAN	---	---	---	---	---	---	2.04	4.66	37.7	26.8	42.5	23.2
MAX	---	---	---	---	---	---	4.5	4.9	97	61	102	87
MIN	---	---	---	---	---	---	0.94	0.50	10	7.7	14	8.6
CFSM	---	---	---	---	---	---	0.31	0.71	5.72	4.07	6.45	3.52
IN.	---	---	---	---	---	---	0.35	0.82	6.38	4.69	7.43	3.93

e Estimated

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

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

MYAKKA RIVER BASIN

02298530 COKER CREEK NEAR MYAKKA CITY, FL--Continued

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

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

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298530 COKER CREEK NEAR MYAKKA CITY, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	3.6	1.9	7.7	3.2	11	4.3	1.5	0.38	4.2	20	9.2
2	40	6.1	1.8	8.4	3.1	8.4	3.5	0.98	0.38	5.2	18	8.1
3	33	4.3	1.7	7.8	3.0	7.3	3.0	0.87	0.39	3.3	17	8.2
4	29	3.6	1.7	8.4	3.2	8.9	2.8	0.82	0.38	2.5	21	7.7
5	52	3.4	1.7	7.6	4.1	11	2.7	0.84	0.36	4.3	27	8.1
6	43	3.3	1.7	5.6	5.0	11	2.5	1.0	0.34	2.7	32	9.5
7	34	3.6	1.6	12	5.7	9.0	2.2	0.83	0.37	2.0	29	20
8	28	3.0	1.6	8.6	5.4	9.3	2.1	0.89	0.42	1.6	22	76
9	24	2.7	1.9	7.5	4.3	9.2	2.0	1.5	0.39	1.5	17	53
10	19	2.6	2.9	6.6	4.0	8.8	2.3	2.6	0.35	1.5	14	46
11	16	2.4	3.1	6.0	5.5	8.0	2.8	1.3	0.34	1.1	12	34
12	13	2.3	3.4	5.4	5.2	6.1	3.6	0.97	0.51	0.89	20	25
13	11	2.2	3.7	5.0	5.3	5.1	2.5	0.82	0.67	0.73	32	20
14	10	2.3	4.4	4.7	6.2	5.8	8.6	0.75	0.59	0.71	32	17
15	9.5	2.2	5.1	4.4	5.0	7.2	9.0	0.69	0.54	9.9	39	14
16	9.0	2.1	5.9	4.8	5.0	4.7	6.7	0.64	0.47	12	28	12
17	9.1	2.0	6.3	4.7	5.7	4.7	4.9	0.61	0.56	8.5	21	98
18	8.0	1.9	21	6.5	6.8	6.4	3.4	0.70	1.4	6.4	17	128
19	7.9	1.8	26	4.8	7.5	46	2.6	1.3	1.3	5.0	14	114
20	7.9	1.7	16	4.8	6.2	25	2.1	0.90	0.91	3.7	12	92
21	6.3	1.7	10	4.3	7.6	15	1.8	0.60	1.6	3.0	11	82
22	6.0	1.6	8.3	3.7	7.2	12	1.7	0.60	1.7	18	9.7	65
23	5.5	1.6	7.6	3.2	6.5	10	1.5	0.58	1.2	25	9.1	51
24	4.8	1.6	7.4	4.9	7.7	9.0	1.4	0.53	1.1	31	9.0	39
25	4.4	2.3	7.0	4.5	7.4	7.8	1.3	0.51	1.5	38	8.1	29
26	4.1	4.4	6.5	3.9	7.3	6.8	1.2	0.50	4.3	31	7.2	23
27	3.8	3.1	6.2	3.6	8.2	6.2	1.1	0.48	4.8	25	6.6	19
28	3.5	2.6	6.2	3.3	9.3	6.3	1.0	0.44	3.3	35	5.8	21
29	3.3	2.3	6.0	3.1	11	5.7	0.99	0.44	2.9	23	6.7	21
30	3.2	2.1	5.6	3.1	---	5.1	0.97	0.43	2.2	19	9.2	20
31	4.1	---	5.7	3.2	---	4.7	---	0.39	---	20	9.9	---
TOTAL	510.4	80.4	189.9	172.1	171.6	301.5	86.56	26.01	35.65	345.73	536.3	1169.8
MEAN	16.5	2.68	6.13	5.55	5.92	9.73	2.89	0.84	1.19	11.2	17.3	39.0
MAX	58	6.1	26	12	11	46	9.0	2.6	4.8	38	39	128
MIN	3.2	1.6	1.6	3.1	3.0	4.7	0.97	0.39	0.34	0.71	5.8	7.7
CFSM	2.50	0.41	0.93	0.84	0.90	1.48	0.44	0.13	0.18	1.69	2.63	5.92
IN.	2.88	0.45	1.07	0.97	0.97	1.70	0.49	0.15	0.20	1.95	3.03	6.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MEAN	16.5	2.68	6.13	5.55	5.92	9.73	2.46	2.75	19.4	19.0	29.9	31.1
MAX	16.5	2.68	6.13	5.55	5.92	9.73	2.89	4.66	37.7	26.8	42.5	39.0
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999	1999	2000
MIN	16.5	2.68	6.13	5.55	5.92	9.73	2.04	0.84	1.19	11.2	17.3	23.2
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL TOTAL	3625.95		
ANNUAL MEAN	9.91		9.91
HIGHEST ANNUAL MEAN			9.91
LOWEST ANNUAL MEAN			9.91
HIGHEST DAILY MEAN	128	Sep 18	128
LOWEST DAILY MEAN	0.34	Jun 6	0.34
ANNUAL SEVEN-DAY MINIMUM	0.37	Jun 5	0.37
MAXIMUM PEAK FLOW	153	Sep 17	153
MAXIMUM PEAK STAGE	56.05	Sep 17	56.05
ANNUAL RUNOFF (CFSM)	1.50		1.50
ANNUAL RUNOFF (INCHES)	20.47		20.43
10 PERCENT EXCEEDS	25		25
50 PERCENT EXCEEDS	5.0		5.0
90 PERCENT EXCEEDS	0.82		0.82

MYAKKA RIVER BASIN

02298530 COKER CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54.55	52.64	52.41	52.96	52.60	53.17	52.66	52.34	52.13	52.63	53.55	53.03
2	54.15	52.85	52.39	53.00	52.58	53.03	52.59	52.25	52.13	52.75	53.46	52.97
3	53.98	52.70	52.38	52.96	52.57	52.97	52.54	52.23	52.13	52.59	53.41	52.97
4	53.87	52.64	52.37	53.00	52.59	53.06	52.52	52.22	52.13	52.50	53.56	52.94
5	54.43	52.61	52.37	52.95	52.69	53.17	52.50	52.23	52.12	52.68	53.78	52.97
6	54.21	52.60	52.36	52.81	52.76	53.16	52.48	52.26	52.12	52.52	53.93	53.05
7	54.01	52.62	52.36	53.19	52.83	53.07	52.44	52.23	52.13	52.43	53.84	53.43
8	53.85	52.56	52.36	53.02	52.81	53.09	52.43	52.24	52.14	52.37	53.61	54.91
9	53.72	52.53	52.40	52.95	52.71	53.09	52.42	52.32	52.13	52.36	53.42	54.44
10	53.57	52.51	52.53	52.88	52.69	53.06	52.45	52.48	52.12	52.36	53.30	54.28
11	53.43	52.49	52.54	52.84	52.81	53.01	52.52	52.31	52.12	52.30	53.21	53.98
12	53.32	52.47	52.58	52.80	52.79	52.88	52.60	52.25	52.16	52.26	53.48	53.71
13	53.24	52.46	52.61	52.77	52.80	52.80	52.48	52.22	52.19	52.23	53.94	53.54
14	53.18	52.46	52.67	52.74	52.86	52.85	52.93	52.21	52.18	52.22	53.94	53.40
15	53.12	52.45	52.73	52.71	52.77	52.95	53.00	52.20	52.17	52.85	54.11	53.29
16	53.09	52.43	52.80	52.75	52.78	52.77	52.85	52.19	52.15	53.16	53.82	53.21
17	53.10	52.42	52.82	52.74	52.84	52.77	52.72	52.18	52.17	52.99	53.58	55.05
18	53.02	52.40	53.46	52.87	52.92	52.84	52.58	52.20	52.32	52.85	53.41	55.73
19	53.02	52.39	53.71	52.75	52.97	54.23	52.49	52.31	52.30	52.74	53.29	55.53
20	53.01	52.38	53.36	52.75	52.88	53.68	52.43	52.24	52.24	52.62	53.19	55.19
21	52.91	52.37	53.11	52.70	52.97	53.31	52.39	52.18	52.35	52.55	53.12	55.01
22	52.88	52.36	53.00	52.65	52.95	53.15	52.37	52.18	52.37	53.45	53.06	54.70
23	52.83	52.35	52.96	52.60	52.90	53.06	52.34	52.18	52.30	53.63	53.03	54.41
24	52.78	52.36	52.94	52.75	52.98	53.00	52.32	52.17	52.27	53.88	53.02	54.12
25	52.74	52.43	52.91	52.72	52.96	52.93	52.31	52.16	52.33	54.08	52.96	53.88
26	52.71	52.67	52.88	52.67	52.96	52.86	52.29	52.16	52.66	53.91	52.91	53.69
27	52.68	52.55	52.86	52.64	53.02	52.82	52.27	52.15	52.72	53.72	52.87	53.53
28	52.65	52.49	52.85	52.61	53.09	52.83	52.26	52.14	52.59	53.99	52.81	53.62
29	52.62	52.46	52.84	52.58	53.17	52.78	52.26	52.14	52.54	53.64	52.87	53.63
30	52.61	52.43	52.81	52.58	---	52.73	52.25	52.14	52.46	53.49	53.03	53.60
31	52.70	---	52.82	52.60	---	52.70	---	52.13	---	53.53	53.07	---
MEAN	53.29	52.50	52.75	52.79	52.84	53.03	52.49	52.22	52.26	52.94	53.37	53.93
MAX	54.55	52.85	53.71	53.19	53.17	54.23	53.00	52.48	52.72	54.08	54.11	55.73
MIN	52.61	52.35	52.36	52.58	52.57	52.70	52.25	52.13	52.12	52.22	52.81	52.94

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298530 COKER CREEK NEAR MYAKKA CITY, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	1.9	1.4	3.0	6.2	6.8	110	4.0	2.3	88	40	27
2	15	1.8	1.3	4.3	4.8	5.6	86	2.8	1.3	80	37	19
3	14	1.6	1.3	3.7	5.2	6.0	62	2.8	1.1	69	65	19
4	12	1.5	1.3	2.8	3.9	21	43	3.9	1.9	55	53	15
5	11	1.5	1.2	3.0	5.1	23	31	2.8	2.3	53	47	15
6	9.9	1.4	1.2	4.1	3.8	13	23	2.7	10	41	40	17
7	10	1.3	1.1	3.9	4.4	13	19	2.3	26	33	35	28
8	9.1	1.3	1.2	4.8	6.8	15	17	2.2	20	28	28	19
9	8.1	1.3	1.2	2.8	8.9	12	16	4.0	11	31	38	28
10	7.4	1.2	1.1	1.7	6.9	11	13	2.8	5.7	39	50	21
11	7.0	1.2	1.2	2.1	5.5	11	11	3.0	3.5	71	91	30
12	6.9	1.2	1.4	3.8	4.6	9.7	10	2.9	2.5	66	66	42
13	7.0	1.1	1.4	3.1	4.5	12	10	3.4	2.4	71	55	82
14	6.5	1.1	1.2	3.6	6.4	9.1	12	6.1	1.8	81	43	190
15	6.1	1.2	1.2	2.8	6.5	8.3	7.3	3.0	3.4	127	33	268
16	5.6	1.0	1.1	3.6	7.5	7.2	6.1	2.0	6.9	110	35	213
17	5.4	1.0	1.1	6.0	8.5	6.7	4.6	3.2	4.0	103	51	139
18	5.2	1.1	1.1	7.3	8.7	6.7	4.7	4.0	3.9	87	37	90
19	4.6	1.0	1.0	7.0	9.2	8.1	7.2	4.0	18	69	44	65
20	4.3	1.0	1.0	4.0	6.9	10	6.3	2.3	13	64	59	49
21	4.3	0.96	0.98	3.3	4.7	7.2	4.9	2.7	9.0	66	45	42
22	4.2	0.93	1.0	3.6	4.7	6.1	7.6	3.8	9.6	110	36	62
23	3.7	0.88	1.2	6.2	7.6	5.8	5.7	2.1	35	119	30	47
24	3.3	0.85	2.1	7.9	6.3	6.3	5.2	1.6	48	120	27	36
25	3.0	0.90	3.3	5.6	5.8	6.7	6.1	2.7	28	97	24	37
26	3.0	1.6	4.4	2.8	8.4	5.4	3.8	2.3	31	83	23	31
27	2.9	1.8	3.8	2.3	5.8	5.1	6.0	2.8	41	67	20	28
28	2.4	1.7	5.4	2.6	5.8	4.8	3.4	1.6	33	56	19	27
29	2.2	1.6	3.5	2.0	---	18	3.8	1.9	62	45	15	32
30	2.1	1.6	2.4	6.0	---	126	4.2	1.7	55	37	16	26
31	2.0	---	2.2	6.4	---	114	---	2.5	---	32	33	---
TOTAL	206.2	38.52	54.28	126.1	173.4	520.6	549.9	89.9	492.6	2198	1235	1744
MEAN	6.65	1.28	1.75	4.07	6.19	16.8	18.3	2.90	16.4	70.9	39.8	58.1
MAX	18	1.9	5.4	7.9	9.2	126	110	6.1	62	127	91	268
MIN	2.0	0.85	0.98	1.7	3.8	4.8	3.4	1.6	1.1	28	15	15
CFSM	1.01	0.19	0.27	0.62	0.94	2.55	2.78	0.44	2.49	10.8	6.05	8.82
IN.	1.16	0.22	0.31	0.71	0.98	2.94	3.10	0.51	2.78	12.41	6.97	9.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	11.6	1.98	3.94	4.81	6.05	13.3	7.75	2.80	18.4	36.3	33.2	40.1
MAX	16.5	2.68	6.13	5.55	6.19	16.8	18.3	4.66	37.7	70.9	42.5	58.1
(WY)	2000	2000	2000	2000	2001	2001	2001	1999	1999	2001	1999	2001
MIN	6.65	1.28	1.75	4.07	5.92	9.73	2.04	0.84	1.19	11.2	17.3	23.2
(WY)	2001	2001	2001	2001	2000	2000	1999	2000	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1999 - 2001

ANNUAL TOTAL	3144.25	7428.50		
ANNUAL MEAN	8.59	20.4	15.1	
HIGHEST ANNUAL MEAN			20.4	2001
LOWEST ANNUAL MEAN			9.91	2000
HIGHEST DAILY MEAN	128	Sep 18	268	Sep 15 2001
LOWEST DAILY MEAN	0.34	Jun 6	0.85	Nov 24 2000
ANNUAL SEVEN-DAY MINIMUM	0.37	Jun 5	0.93	Nov 19 2000
MAXIMUM PEAK FLOW			286	Sep 15 2001
MAXIMUM PEAK STAGE			57.39	Sep 15 2001
ANNUAL RUNOFF (CFSM)	1.30		3.09	
ANNUAL RUNOFF (INCHES)	17.75		41.93	
10 PERCENT EXCEEDS	20		62	
50 PERCENT EXCEEDS	4.3		6.2	
90 PERCENT EXCEEDS	0.82		1.3	

MYAKKA RIVER BASIN

02298530 COKER CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.52	52.42	52.31	52.57	52.79	52.84	55.47	52.69	52.47	55.12	54.14	53.76
2	53.42	52.40	52.30	52.70	52.69	52.75	55.08	52.58	52.31	54.99	54.06	53.51
3	53.35	52.37	52.29	52.63	52.72	52.78	54.65	52.56	52.28	54.77	54.69	53.49
4	53.28	52.36	52.29	52.55	52.61	53.39	54.20	52.66	52.40	54.49	54.44	53.32
5	53.20	52.35	52.28	52.57	52.71	53.61	53.90	52.56	52.48	54.44	54.31	53.35
6	53.15	52.33	52.27	52.67	52.59	53.23	53.67	52.55	52.95	54.16	54.13	53.40
7	53.19	52.32	52.26	52.65	52.65	53.21	53.51	52.50	53.66	53.97	54.01	53.77
8	53.11	52.31	52.27	52.74	52.85	53.29	53.42	52.48	53.55	53.82	53.84	53.51
9	53.04	52.30	52.27	52.54	52.98	53.17	53.39	52.65	53.12	53.92	54.05	53.79
10	52.99	52.30	52.26	52.40	52.85	53.10	53.26	52.54	52.81	54.10	54.32	53.58
11	52.96	52.29	52.28	52.45	52.74	53.09	53.16	52.57	52.62	54.81	55.17	53.87
12	52.96	52.28	52.31	52.64	52.67	53.03	53.13	52.55	52.52	54.71	54.72	54.14
13	52.95	52.27	52.30	52.58	52.66	53.17	53.14	52.60	52.50	54.82	54.50	55.02
14	52.92	52.26	52.28	52.62	52.81	53.00	53.24	52.81	52.43	54.97	54.22	56.41
15	52.89	52.26	52.27	52.55	52.81	52.95	52.97	52.56	52.54	55.71	53.98	57.23
16	52.85	52.25	52.26	52.62	52.89	52.88	52.90	52.44	52.89	55.47	54.00	56.72
17	52.83	52.24	52.25	52.83	52.96	52.84	52.78	52.56	52.67	55.36	54.41	55.86
18	52.81	52.25	52.25	52.93	52.97	52.84	52.79	52.64	52.66	55.10	54.08	55.15
19	52.76	52.24	52.24	52.90	53.00	52.93	52.95	52.64	53.44	54.78	54.24	54.70
20	52.72	52.24	52.25	52.67	52.85	53.06	52.90	52.47	53.24	54.68	54.58	54.38
21	52.72	52.23	52.23	52.60	52.68	52.88	52.79	52.51	53.04	54.73	54.25	54.20
22	52.71	52.22	52.24	52.63	52.68	52.79	52.97	52.62	53.08	55.46	54.04	54.63
23	52.65	52.21	52.28	52.84	52.89	52.77	52.85	52.43	53.85	55.60	53.89	54.32
24	52.62	52.21	52.41	52.96	52.80	52.81	52.80	52.37	54.33	55.62	53.79	54.06
25	52.59	52.22	52.57	52.80	52.77	52.83	52.86	52.49	53.81	55.27	53.71	54.10
26	52.57	52.33	52.68	52.54	52.94	52.73	52.68	52.46	53.92	55.04	53.67	53.93
27	52.56	52.36	52.64	52.48	52.77	52.71	52.85	52.51	54.18	54.74	53.54	53.84
28	52.51	52.35	52.78	52.52	52.76	52.70	52.64	52.36	53.95	54.51	53.50	53.81
29	52.47	52.34	52.61	52.44	---	53.09	52.67	52.41	54.63	54.27	53.35	53.96
30	52.46	52.33	52.49	52.78	---	55.69	52.71	52.37	54.48	54.06	53.39	53.80
31	52.44	---	52.47	52.81	---	55.53	---	52.48	---	53.93	53.94	---
MEAN	52.88	52.29	52.35	52.65	52.79	53.15	53.28	52.54	53.16	54.76	54.10	54.32
MAX	53.52	52.42	52.78	52.96	53.00	55.69	55.47	52.81	54.63	55.71	55.17	57.23
MIN	52.44	52.21	52.23	52.40	52.59	52.70	52.64	52.36	52.28	53.82	53.35	53.32

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298530 COKER CREEK NEAR MYAKKA CITY, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	4.5	1.6	1.4	3.5	25	9.6	1.4	5.5	121	45	60
2	21	4.4	1.6	1.6	3.2	24	9.7	1.2	4.3	110	72	69
3	18	4.5	1.5	1.9	3.3	23	8.3	1.2	3.6	117	85	47
4	16	6.2	1.5	1.9	4.3	21	7.0	1.0	3.0	107	83	41
5	17	4.3	1.5	2.0	5.5	18	7.6	0.89	2.7	89	60	33
6	15	3.7	1.4	2.2	3.8	18	6.1	0.80	2.4	68	44	30
7	12	3.2	1.1	1.9	3.7	18	6.7	0.89	2.0	51	35	27
8	12	3.0	1.1	1.8	4.3	14	7.6	0.75	2.2	40	33	24
9	11	2.9	1.2	1.7	3.5	12	6.9	0.61	5.7	60	28	23
10	12	3.3	1.8	2.0	5.5	14	5.2	0.57	4.2	45	22	21
11	13	2.9	1.7	1.7	7.0	15	4.5	0.50	3.4	37	18	20
12	9.4	2.4	1.6	1.6	6.6	15	5.2	0.51	2.9	47	16	35
13	8.4	2.4	1.6	1.6	7.7	14	18	0.50	2.4	83	14	44
14	8.1	2.3	1.6	1.8	9.0	14	10	0.43	3.3	81	14	33
15	7.2	2.3	1.5	4.2	9.4	11	7.1	0.38	2.6	70	28	32
16	6.9	2.2	1.4	4.2	9.1	12	6.2	0.52	2.0	56	23	27
17	6.9	2.0	1.4	3.3	8.0	9.7	5.0	2.1	1.8	42	20	22
18	7.1	2.1	1.5	3.1	8.3	11	4.5	1.4	2.3	34	24	20
19	6.3	2.1	1.5	3.1	8.7	12	4.0	20	3.0	42	62	17
20	5.9	2.0	1.4	4.3	8.0	9.0	3.8	20	8.2	61	83	16
21	8.4	1.9	1.4	4.9	8.8	9.1	3.3	15	19	65	53	15
22	13	1.9	1.4	5.2	31	8.6	3.7	14	22	54	36	13
23	8.6	1.8	1.3	5.3	77	9.5	3.4	15	18	43	27	13
24	7.9	1.8	1.3	5.3	64	7.7	3.0	13	37	34	22	14
25	8.3	1.8	1.3	5.6	44	12	2.7	11	118	27	18	16
26	8.2	1.7	1.4	7.3	41	28	2.2	9.5	124	24	16	15
27	7.0	1.7	1.6	9.0	36	16	2.3	8.0	115	25	36	14
28	6.2	1.6	1.5	9.5	30	11	2.1	10	102	22	78	13
29	5.6	1.6	1.5	9.8	---	9.2	1.9	9.8	84	19	76	13
30	5.1	1.6	1.4	7.2	---	9.6	1.6	8.4	82	21	66	13
31	4.7	---	1.4	4.3	---	12	---	6.8	---	50	59	---
TOTAL	323.2	80.1	45.0	120.7	454.2	442.4	169.2	176.15	788.5	1745	1296	780
MEAN	10.4	2.67	1.45	3.89	16.2	14.3	5.64	5.68	26.3	56.3	41.8	26.0
MAX	27	6.2	1.8	9.8	77	28	18	20	124	121	85	69
MIN	4.7	1.6	1.1	1.4	3.2	7.7	1.6	0.38	1.8	19	14	13
CFSM	1.58	0.41	0.22	0.59	2.46	2.17	0.86	0.86	3.99	8.54	6.34	3.95
IN.	1.82	0.45	0.25	0.68	2.56	2.50	0.96	0.99	4.45	9.85	7.32	4.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	11.2	2.21	3.11	4.50	9.40	13.6	7.22	3.52	20.4	41.3	35.4	36.6	
MAX	16.5	2.68	6.13	5.55	16.2	16.8	18.3	5.68	37.7	70.9	42.5	58.1	
(WY)	2000	2000	2000	2000	2002	2001	2001	2002	1999	2001	1999	2001	
MIN	6.65	1.28	1.45	3.89	5.92	9.73	2.04	0.84	1.19	11.2	17.3	23.2	
(WY)	2001	2001	2002	2002	2000	2000	1999	2000	2000	2000	2000	1999	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1999 - 2002

	2001	2002	1999	2000	2001	2002
ANNUAL TOTAL	7577.8	6420.45				
ANNUAL MEAN	20.8	17.6	15.9			
HIGHEST ANNUAL MEAN			20.4			2001
LOWEST ANNUAL MEAN			9.91			2000
HIGHEST DAILY MEAN	268	Sep 15	268	Sep 15	2001	
LOWEST DAILY MEAN	1.1	Jun 3	0.38	May 15	2000	
ANNUAL SEVEN-DAY MINIMUM	1.3	Dec 3	0.49	May 10	2000	
MAXIMUM PEAK FLOW			132	Jun 26	2001	
MAXIMUM PEAK STAGE			55.78	Jun 26	2001	
ANNUAL RUNOFF (CFSM)	3.15		2.67			
ANNUAL RUNOFF (INCHES)	42.78		36.24			
10 PERCENT EXCEEDS	62		50			
50 PERCENT EXCEEDS	6.8		8.2			
90 PERCENT EXCEEDS	1.7		1.5			

MYAKKA RIVER BASIN

02298530 COKER CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.81	52.77	52.44	52.42	52.66	53.73	53.18	52.52	52.87	55.63	54.41	54.69
2	53.63	52.76	52.44	52.43	52.63	53.72	53.18	52.49	52.78	55.48	54.87	54.83
3	53.53	52.77	52.43	52.49	52.64	53.67	53.11	52.48	52.71	55.58	55.08	54.46
4	53.44	52.90	52.43	52.49	52.73	53.62	53.03	52.45	52.65	55.42	55.05	54.32
5	53.48	52.76	52.43	52.51	52.84	53.50	53.06	52.43	52.61	55.13	54.72	54.11
6	53.36	52.70	52.42	52.53	52.69	53.47	52.97	52.41	52.58	54.80	54.45	54.02
7	53.29	52.65	52.36	52.49	52.68	53.47	53.01	52.43	52.53	54.50	54.23	53.91
8	53.24	52.63	52.36	52.47	52.73	53.31	53.06	52.40	52.55	54.26	54.19	53.80
9	53.19	52.61	52.39	52.46	52.66	53.23	53.02	52.37	52.89	54.66	54.02	53.77
10	53.24	52.65	52.47	52.51	52.83	53.33	52.90	52.36	52.77	54.37	53.84	53.71
11	53.29	52.61	52.46	52.46	52.94	53.35	52.85	52.35	52.69	54.17	53.69	53.68
12	53.12	52.56	52.45	52.45	52.91	53.38	52.90	52.35	52.63	54.38	53.59	54.11
13	53.05	52.55	52.44	52.45	52.98	53.29	53.55	52.35	52.57	55.04	53.50	54.39
14	53.04	52.54	52.44	52.47	53.06	53.31	53.21	52.33	52.68	55.01	53.51	54.10
15	52.98	52.54	52.43	52.73	53.08	53.15	53.03	52.32	52.60	54.83	54.03	54.08
16	52.95	52.53	52.42	52.73	53.07	53.21	52.97	52.35	52.53	54.59	53.88	53.91
17	52.96	52.50	52.42	52.64	53.00	53.09	52.89	52.62	52.51	54.30	53.77	53.77
18	52.97	52.51	52.43	52.62	53.02	53.17	52.85	52.51	52.58	54.08	53.86	53.67
19	52.91	52.52	52.43	52.62	53.05	53.21	52.81	53.42	52.66	54.30	54.75	53.56
20	52.88	52.50	52.42	52.73	53.00	53.05	52.79	53.62	53.03	54.69	55.05	53.51
21	53.01	52.49	52.41	52.79	53.05	53.06	52.75	53.41	53.58	54.76	54.60	53.49
22	53.27	52.49	52.41	52.81	53.70	53.03	52.79	53.39	53.70	54.57	54.26	53.39
23	53.07	52.48	52.40	52.82	54.93	53.07	52.75	53.42	53.55	54.33	54.00	53.37
24	53.02	52.47	52.40	52.82	54.68	52.97	52.71	53.33	53.94	54.10	53.81	53.43
25	53.05	52.47	52.40	52.84	54.28	53.17	52.69	53.24	55.59	53.89	53.67	53.51
26	53.04	52.46	52.42	52.96	54.21	53.86	52.63	53.14	55.68	53.77	53.58	53.45
27	52.97	52.46	52.44	53.06	54.05	53.47	52.63	53.05	55.54	53.81	54.14	53.41
28	52.90	52.45	52.43	53.09	53.91	53.24	52.62	53.18	55.34	53.71	54.96	53.39
29	52.86	52.45	52.43	53.11	---	53.15	52.59	53.17	55.06	53.60	54.93	53.39
30	52.83	52.45	52.42	52.95	---	53.19	52.55	53.07	55.02	53.65	54.78	53.37
31	52.79	---	52.42	52.73	---	53.28	---	52.97	---	54.50	54.66	---
MEAN	53.13	52.57	52.42	52.67	53.21	53.31	52.90	52.77	53.35	54.51	54.25	53.82
MAX	53.81	52.90	52.47	53.11	54.93	53.86	53.55	53.62	55.68	55.63	55.08	54.83
MIN	52.79	52.45	52.36	52.42	52.63	52.97	52.55	52.32	52.51	53.60	53.50	53.37

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298554 MYAKKA RIVER NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°21'57", long 82°08'58" (1927 North American datum), in NW¹/₄ sec.7, T.36 S., R.22 E., Manatee County, Hydrologic Unit 03100102, on downstream side of bridge on Wauchula Road, and 1.4 mi northeast of Myakka City.

DRAINAGE AREA.-- Indeterminate.

PERIOD OF RECORD.--October 2001 to September 2002.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e210	31	e4.1	e5.8	19	116	14	3.4	2.2	e1060	283	e486
2	e180	30	e3.8	6.5	18	101	13	3.2	2.1	e777	374	e403
3	e155	29	e3.6	10	18	88	13	e2.7	2.1	582	504	409
4	e135	27	e3.5	10	16	77	13	e2.0	1.7	544	595	384
5	e110	25	e3.6	10	14	67	13	e1.8	1.4	477	646	337
6	e95	23	e3.3	11	13	60	10	e1.5	1.3	399	624	307
7	e85	21	e3.4	11	15	56	8.8	e1.4	1.6	349	527	279
8	e75	19	e3.6	10	18	52	7.8	e1.0	3.0	298	462	239
9	e65	18	e4.7	9.2	16	47	6.8	e0.87	4.5	274	413	209
10	e60	17	e5.0	9.1	17	42	5.9	e0.63	3.4	257	425	190
11	e55	15	e4.8	8.7	18	37	5.4	e0.55	2.9	253	443	192
12	e50	14	e4.7	8.7	16	32	5.7	e0.46	2.5	243	402	200
13	e48	13	e4.4	9.0	14	30	13	e0.34	2.5	304	361	212
14	e46	13	e4.2	11	15	27	12	e0.24	3.0	409	334	217
15	e43	12	e4.0	46	16	25	20	e0.24	3.5	490	316	222
16	e40	11	e3.6	51	14	22	26	e0.30	3.6	420	302	210
17	e37	10	e3.5	51	14	21	36	e0.97	3.7	339	325	193
18	e35	9.4	e3.5	46	13	18	38	e1.2	4.7	283	362	177
19	e33	8.9	e3.8	42	13	16	33	e3.6	6.1	e244	e543	161
20	e30	8.2	e3.9	40	12	14	26	e3.0	12	e225	e483	156
21	e32	7.8	e3.7	37	12	12	20	e2.4	35	e198	320	147
22	e52	7.2	e3.5	33	36	11	15	e1.7	92	e360	e294	128
23	e50	6.7	e3.0	30	115	9.7	11	2.2	108	e457	e260	122
24	e49	6.4	e2.9	27	208	8.5	8.9	2.7	158	e387	e210	122
25	46	6.1	e3.5	25	248	7.7	7.1	2.8	382	e330	e179	133
26	47	5.6	e4.0	23	217	7.6	5.8	2.8	629	e279	e168	123
27	44	5.4	e5.0	21	175	7.2	e5.4	2.7	742	332	e174	114
28	40	e4.8	e4.9	19	139	8.5	e5.0	2.6	691	360	e280	101
29	37	e4.4	e4.8	18	---	12	e4.1	2.4	e746	335	e345	89
30	34	e4.2	e4.7	18	---	13	e3.6	2.3	e901	309	e405	79
31	32	---	e5.5	19	---	14	---	2.3	---	290	e513	---
MEAN	66.1	13.8	4.02	21.8	52.1	34.2	13.5	1.82	152	383	383	211
MAX	210	31	5.5	51	248	116	38	3.6	901	1060	646	486
MIN	30	4.2	2.9	5.8	12	7.2	3.6	0.24	1.3	198	168	79

e Estimated

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

	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MEAN	66.1	13.8	4.02	21.8	52.1	34.2	13.5	1.82	152	383	383	211
MAX	66.1	13.8	4.02	21.8	52.1	34.2	13.5	1.82	152	383	383	211
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	66.1	13.8	4.02	21.8	52.1	34.2	13.5	1.82	152	383	383	211
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2002 WATER YEAR

ANNUAL MEAN	112
HIGHEST DAILY MEAN	e1060 Jul 1
LOWEST DAILY MEAN	0.24 May 14
ANNUAL SEVEN-DAY MINIMUM	0.39 May 10
MAXIMUM PEAK FLOW	e1060 Jul 1
10 PERCENT EXCEEDS	367
50 PERCENT EXCEEDS	20
90 PERCENT EXCEEDS	2.9

MYAKKA RIVER BASIN

02298554 MYAKKA RIVER NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	8.11	---	---	7.67	9.37	7.46	6.58	6.26	---	10.47	---
2	---	8.08	---	7.00	7.66	9.21	7.41	6.53	6.24	---	10.83	---
3	---	8.02	---	7.26	7.63	9.07	7.39	---	6.24	11.42	11.23	10.96
4	---	7.97	---	7.25	7.58	8.92	7.42	---	6.13	11.34	11.46	10.87
5	---	7.92	---	7.27	7.47	8.78	7.40	---	6.06	11.16	11.57	10.70
6	---	7.85	---	7.28	7.40	8.67	7.27	---	6.05	10.93	11.52	10.57
7	---	7.76	---	7.30	7.49	8.61	7.17	---	6.13	10.74	11.29	10.45
8	---	7.70	---	7.26	7.64	8.55	7.11	---	6.42	10.53	11.12	10.24
9	---	7.65	---	7.20	7.56	8.46	7.03	---	6.78	10.42	10.98	10.07
10	---	7.59	---	7.19	7.59	8.36	6.97	---	6.58	10.34	11.01	9.95
11	---	7.53	---	7.17	7.64	8.25	6.92	---	6.44	10.32	11.07	9.97
12	---	7.48	---	7.16	7.54	8.14	6.94	---	6.34	10.26	10.94	10.01
13	---	7.43	---	7.18	7.44	8.06	7.43	---	6.33	10.56	10.79	10.09
14	---	7.40	---	7.30	7.52	7.97	7.37	---	6.46	10.95	10.68	10.12
15	---	7.36	---	8.43	7.55	7.88	7.73	---	6.60	11.20	10.61	10.15
16	---	7.31	---	8.53	7.47	7.81	7.93	---	6.61	11.00	10.55	10.08
17	---	7.25	---	8.53	7.46	7.75	8.23	---	6.64	10.70	10.65	9.98
18	---	7.21	---	8.43	7.41	7.65	8.27	---	6.83	10.46	10.79	9.87
19	---	7.18	---	8.36	7.38	7.55	8.15	---	6.96	---	---	9.76
20	---	7.14	---	8.32	7.37	7.46	7.94	---	7.37	---	---	9.73
21	---	7.10	---	8.25	7.36	7.37	7.72	---	8.02	---	10.63	9.65
22	---	7.07	---	8.16	8.03	7.31	7.51	---	9.11	---	---	9.49
23	---	7.02	---	8.08	9.35	7.23	7.33	6.25	9.29	---	---	9.43
24	---	7.00	---	7.99	10.06	7.15	7.18	6.40	9.70	---	---	9.43
25	8.43	6.98	---	7.90	10.29	7.10	7.05	6.43	10.84	---	---	9.54
26	8.45	6.94	---	7.85	10.12	7.09	6.95	6.42	11.52	---	---	9.44
27	8.39	6.92	---	7.77	9.85	7.07	---	6.40	11.71	10.67	---	9.36
28	8.31	---	---	7.70	9.59	7.15	---	6.36	11.64	10.79	---	9.22
29	8.24	---	---	7.64	---	7.35	---	6.32	---	10.69	---	9.08
30	8.19	---	---	7.65	---	7.40	---	6.29	---	10.58	---	8.95
31	8.14	---	---	7.67	---	7.44	---	6.28	---	10.50	---	---
MEAN	---	---	---	---	8.04	7.94	---	---	---	---	---	---
MAX	---	---	---	---	10.29	9.37	---	---	---	---	---	---
MIN	---	---	---	---	7.36	7.07	---	---	---	---	---	---

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" (1927 North American datum), in SE¼ 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.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	36	7.6	9.9	22	151	16	4.5	2.7	e1480	286	872
2	273	34	7.5	10	21	119	16	3.8	2.5	1760	295	847
3	238	33	7.4	16	20	98	15	3.1	2.4	1420	397	997
4	206	31	7.5	16	19	80	16	2.6	2.3	1270	485	798
5	176	29	7.2	16	18	65	15	2.1	2.2	1130	546	608
6	151	27	7.1	16	17	56	14	1.7	2.1	877	542	522
7	130	25	7.4	17	18	51	12	1.4	2.4	663	456	479
8	115	23	8.7	16	24	48	11	1.2	8.0	523	383	393
9	101	22	8.8	15	21	44	10	0.96	35	462	332	315
10	86	21	8.6	14	21	40	9.2	0.75	25	435	316	264
11	75	20	8.6	14	22	35	8.2	0.59	14	424	327	301
12	66	18	8.2	13	21	32	7.9	0.52	10	395	290	530
13	59	17	8.1	14	19	30	25	0.41	9.9	463	242	521
14	54	17	7.9	15	19	27	30	0.31	26	632	226	441
15	51	16	7.5	55	21	24	42	0.25	43	795	233	385
16	48	16	7.3	72	19	23	42	0.40	42	715	198	335
17	45	14	7.4	67	18	22	44	1.1	35	572	198	285
18	42	14	7.7	56	17	21	43	1.2	41	470	334	242
19	40	13	7.8	49	17	19	38	2.8	42	408	574	206
20	37	13	7.7	46	16	17	31	7.8	45	351	499	202
21	40	12	7.3	42	16	15	25	4.6	84	300	490	199
22	66	12	6.9	38	36	15	21	3.2	261	426	448	166
23	62	11	6.7	36	218	13	17	3.2	254	497	361	142
24	55	10	7.3	33	394	12	14	4.2	309	407	281	149
25	53	9.7	7.8	30	464	11	12	4.6	965	329	217	197
26	54	9.1	8.9	28	411	11	10	4.5	1420	259	175	171
27	51	8.7	9.0	26	309	11	8.6	4.3	1400	278	177	149
28	46	8.4	8.5	24	215	11	6.9	4.1	e1320	368	306	131
29	42	8.1	8.5	23	---	14	5.9	3.6	e1290	354	364	107
30	39	7.9	9.1	22	---	15	5.2	3.3	e1390	328	410	90
31	37	---	9.7	22	---	16	---	2.9	---	332	537	---
TOTAL	2847	535.9	245.7	870.9	2453	1146	570.9	79.99	9085.5	19123	10925	11044
MEAN	91.8	17.9	7.93	28.1	87.6	37.0	19.0	2.58	303	617	352	368
MAX	309	36	9.7	72	464	151	44	7.8	1420	1760	574	997
MIN	37	7.9	6.7	9.9	16	11	5.2	0.25	2.1	259	175	90
CFSM	0.73	0.14	0.06	0.22	0.70	0.30	0.15	0.02	2.42	4.93	2.82	2.95
IN.	0.85	0.16	0.07	0.26	0.73	0.34	0.17	0.02	2.70	5.69	3.25	3.29
*PREC	1.70	0.12	0.61	2.44	4.41	0.22	1.78	2.53	16.95	4.68	9.18	4.42

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, 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	2001	2002									
MEAN	142	71.7	60.9	86.1	102	124	63.1	25.1	178	268	330	376																																				
MAX	392	840	658	510	839	820	360	166	1013	959	897	1112																																				
(WY)	1983	1998	1998	1998	1998	1998	1993	1991	1992	2001	1995	2001																																				
MIN	1.06	3.40	3.31	4.65	9.28	8.47	2.43	0.067	2.40	20.9	20.8	5.72																																				
(WY)	1985	1965	1986	1985	1985	1985	1965	1985	1998	1981	1980	1984																																				

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1964 - 2002

ANNUAL TOTAL	85989.01	58926.89		
ANNUAL MEAN	236	161	152	
HIGHEST ANNUAL MEAN			404	1998
LOWEST ANNUAL MEAN			49.1	1980
HIGHEST DAILY MEAN	6150	Sep 15	1760	Jul 2
LOWEST DAILY MEAN	0.00	Many Days	0.25	May 15
ANNUAL SEVEN-DAY MINIMUM	0.02	May 27	0.46	May 10
MAXIMUM PEAK FLOW			1940	Jul 2
MAXIMUM PEAK STAGE			12.45	Jul 2
ANNUAL RUNOFF (CFSM)	1.88		1.29	
ANNUAL RUNOFF (INCHES)	25.59		17.54	
10 PERCENT EXCEEDS	647		466	
50 PERCENT EXCEEDS	22		29	
90 PERCENT EXCEEDS	3.8		4.6	

*PRECIPITATION, TOTAL, INCHES

MYAKKA RIVER BASIN

02298618 MYAKKA RIVER BELOW SAND CREEK NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°18'02", long 82°13'02" (1927 North American datum), in SW¹/₄ sec.33, T.36 S., R.21 E., Manatee County, Hydrologic Unit 03100102, on left bank, 800 ft downstream from Sand Creek, 2000 ft north of Miarcachee Road, 1.5 mi north of State Road 780, and 6.5 mi west of Myakka City.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--July to September 2002 (gage heights only).

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

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 25.07 ft, Sept. 4; minimum, 19.56 ft, Sept. 30.

GAGE HEIGHT, FEET, PERIOD JULY TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	23.76
2	---	---	---	---	---	---	---	---	---	---	---	24.77
3	---	---	---	---	---	---	---	---	---	---	21.72	24.90
4	---	---	---	---	---	---	---	---	---	---	22.30	24.98
5	---	---	---	---	---	---	---	---	---	---	22.91	24.49
6	---	---	---	---	---	---	---	---	---	---	23.45	23.87
7	---	---	---	---	---	---	---	---	---	---	23.26	23.34
8	---	---	---	---	---	---	---	---	---	---	22.60	22.84
9	---	---	---	---	---	---	---	---	---	23.42	22.01	22.15
10	---	---	---	---	---	---	---	---	---	22.80	21.62	21.71
11	---	---	---	---	---	---	---	---	---	22.52	21.56	21.77
12	---	---	---	---	---	---	---	---	---	22.36	---	22.76
13	---	---	---	---	---	---	---	---	---	22.43	---	23.83
14	---	---	---	---	---	---	---	---	---	23.12	---	23.55
15	---	---	---	---	---	---	---	---	---	24.09	22.21	22.97
16	---	---	---	---	---	---	---	---	---	24.48	---	22.47
17	---	---	---	---	---	---	---	---	---	24.15	---	22.03
18	---	---	---	---	---	---	---	---	---	23.44	22.79	---
19	---	---	---	---	---	---	---	---	---	22.70	24.48	---
20	---	---	---	---	---	---	---	---	---	22.19	24.10	---
21	---	---	---	---	---	---	---	---	---	21.76	23.41	---
22	---	---	---	---	---	---	---	---	---	21.66	23.10	---
23	---	---	---	---	---	---	---	---	---	22.69	22.57	---
24	---	---	---	---	---	---	---	---	---	22.69	21.87	---
25	---	---	---	---	---	---	---	---	---	22.17	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	20.01
29	---	---	---	---	---	---	---	---	---	21.85	21.92	19.86
30	---	---	---	---	---	---	---	---	---	21.77	22.21	19.66
31	---	---	---	---	---	---	---	---	---	21.67	22.89	---
MEAN	---	---	---	---	---	---	---	---	---	22.70	22.65	22.79
MAX	---	---	---	---	---	---	---	---	---	24.48	24.48	24.98
MIN	---	---	---	---	---	---	---	---	---	21.66	21.56	19.66

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02298700 MYAKKA RIVER AT STATE HIGHWAY 780 NEAR VERNA, FL

LOCATION.--Lat 27°18'05", long 82°15'15" (1927 North American datum), in SE $\frac{1}{4}$ sec.36, T.36 S., R.20 E., Sarasota County, Hydrologic Unit 03100102, on downstream side of bridge on State Highway 780, 2.5 mi south of Verna Road, 5.8 mi south of Verna, and 18 mi east of Sarasota.

DRAINAGE AREA.--165 mi².

PERIOD OF RECORD.--April 1989 to September 1991; May to September 2002 (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Sarasota County Highway Department disk).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 19.35 ft, July 3, 4, 1991; minimum, 12.89 ft, June 7, 8, 2002.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 18.61 ft, July 3, 4; minimum, 12.89 ft June 7, 8.

GAGE HEIGHT, FEET, PERIOD MAY TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	13.04	18.00	16.36	17.27
2	---	---	---	---	---	---	---	---	13.02	18.22	16.31	17.46
3	---	---	---	---	---	---	---	---	12.98	18.55	16.36	17.80
4	---	---	---	---	---	---	---	---	12.94	18.58	16.43	18.03
5	---	---	---	---	---	---	---	---	12.93	18.48	16.53	18.02
6	---	---	---	---	---	---	---	---	12.93	18.34	16.63	17.86
7	---	---	---	---	---	---	---	---	12.91	18.15	16.72	17.65
8	---	---	---	---	---	---	---	13.30	12.95	17.93	16.71	17.46
9	---	---	---	---	---	---	---	13.25	13.62	17.71	16.63	17.26
10	---	---	---	---	---	---	---	13.18	14.20	17.48	16.53	17.07
11	---	---	---	---	---	---	---	13.13	14.24	17.28	16.46	16.96
12	---	---	---	---	---	---	---	13.07	14.02	17.13	16.46	16.98
13	---	---	---	---	---	---	---	13.03	13.77	17.06	16.39	17.11
14	---	---	---	---	---	---	---	12.99	13.65	17.07	16.39	17.16
15	---	---	---	---	---	---	---	12.94	14.00	17.10	16.76	17.14
16	---	---	---	---	---	---	---	12.95	14.38	17.19	16.72	17.03
17	---	---	---	---	---	---	---	13.14	14.49	17.22	16.60	16.91
18	---	---	---	---	---	---	---	13.17	14.58	17.16	16.88	16.78
19	---	---	---	---	---	---	---	13.31	14.66	17.06	17.26	16.64
20	---	---	---	---	---	---	---	13.39	14.68	16.94	17.48	16.51
21	---	---	---	---	---	---	---	13.40	14.84	16.80	17.46	16.43
22	---	---	---	---	---	---	---	13.41	15.31	16.70	17.39	16.35
23	---	---	---	---	---	---	---	13.31	15.71	16.71	17.28	16.22
24	---	---	---	---	---	---	---	13.21	15.87	16.73	17.12	16.11
25	---	---	---	---	---	---	---	13.14	16.38	16.71	16.92	---
26	---	---	---	---	---	---	---	13.13	16.79	16.60	16.75	---
27	---	---	---	---	---	---	---	13.14	17.19	16.49	16.70	---
28	---	---	---	---	---	---	---	13.15	17.49	16.42	16.92	15.95
29	---	---	---	---	---	---	---	13.13	17.69	16.43	17.05	15.92
30	---	---	---	---	---	---	---	13.11	17.94	16.43	17.09	15.83
31	---	---	---	---	---	---	---	13.08	---	16.40	17.18	---
MEAN	---	---	---	---	---	---	---	---	14.64	17.26	16.79	---
MAX	---	---	---	---	---	---	---	---	17.94	18.58	17.48	---
MIN	---	---	---	---	---	---	---	---	12.91	16.40	16.31	---

MYAKKA RIVER BASIN

02298760 HOWARD CREEK NEAR SARASOTA, FL

LOCATION.--Lat 27°17'17", long 82°20'25" (1927 North American datum), in SE $\frac{1}{4}$ sec.6, T.37 S., R.20 E., Sarasota County, Hydrologic Unit 03100102, on right bank, 3.2 mi above mouth, 3.4 mi south of State Highway 780, and 12.2 mi east of Sarasota.
 DRAINAGE AREA.--20.0 mi².
 PERIOD OF RECORD.--October 1983 to September 1995; October 2000 to current year.
 GAGE.--Water-stage recorder. Datum of gage has not been determined.
 REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	4.4	2.3	1.7	1.6	5.6	0.83	0.10	1.8	73	3.1	292
2	17	4.3	2.2	1.9	1.5	5.1	0.72	0.45	1.7	94	3.8	254
3	12	3.6	2.1	2.3	1.6	4.2	0.62	0.16	1.6	90	14	351
4	9.9	3.4	2.3	2.5	1.8	3.6	0.51	0.00	1.6	76	27	260
5	8.4	3.0	2.3	2.7	1.6	3.4	0.39	0.00	1.4	68	21	185
6	6.7	2.9	2.2	2.9	1.3	3.5	0.29	0.00	1.4	47	13	100
7	5.6	2.7	2.3	2.8	1.4	3.4	0.24	0.00	1.2	28	8.3	54
8	5.2	2.6	2.3	2.6	1.9	3.8	0.16	0.00	1.5	19	6.1	35
9	4.3	2.8	2.4	2.2	1.7	3.3	0.10	0.00	2.6	15	4.7	25
10	4.0	2.9	2.6	2.1	1.6	2.9	0.03	0.00	5.8	13	3.8	23
11	3.4	2.7	2.3	2.0	1.6	2.7	0.00	0.00	6.1	11	3.3	31
12	3.4	2.7	1.8	1.8	1.6	2.5	0.14	0.00	4.5	12	3.3	71
13	3.4	2.5	1.6	1.9	1.9	2.2	0.64	0.00	3.5	25	3.7	86
14	3.5	2.6	1.6	2.0	2.1	2.1	0.45	0.00	2.9	62	15	68
15	3.3	2.4	1.5	4.8	2.0	2.0	0.39	0.00	2.4	58	84	55
16	2.9	2.6	1.8	7.4	1.8	2.0	0.46	0.06	2.0	36	111	45
17	2.9	2.8	2.0	6.4	1.7	2.0	0.55	0.00	1.9	20	95	32
18	3.2	2.8	1.8	4.5	2.4	1.9	0.65	1.3	2.4	13	85	23
19	3.3	2.8	1.6	3.5	1.9	1.9	0.72	6.4	3.4	8.2	79	19
20	3.4	2.5	1.5	3.0	1.5	1.8	0.61	18	5.5	5.6	59	20
21	3.2	2.2	1.6	2.6	1.4	1.6	0.46	20	12	4.5	43	20
22	6.8	1.9	1.9	2.3	4.7	1.5	0.31	10	12	3.7	51	16
23	6.0	2.0	1.8	2.1	27	1.4	0.15	6.6	9.8	3.1	36	13
24	4.6	2.3	1.6	1.9	51	1.3	0.03	5.0	8.5	2.7	24	11
25	3.7	2.2	1.5	1.8	34	1.3	0.00	3.9	16	2.9	17	10
26	9.1	2.3	1.8	1.6	19	1.3	0.00	3.0	32	2.5	13	9.5
27	16	2.1	2.3	1.5	11	1.3	0.00	2.6	49	2.4	40	9.7
28	12	2.1	2.4	1.4	7.0	1.4	0.00	2.4	40	2.1	225	9.1
29	8.6	2.0	2.3	1.5	---	1.4	0.00	2.3	44	2.4	392	9.7
30	6.6	2.2	2.4	1.6	---	1.2	0.00	2.1	59	3.1	404	8.2
31	4.6	---	2.1	1.6	---	1.0	---	2.0	---	2.9	370	---
TOTAL	210.0	80.3	62.2	80.9	189.6	74.6	9.45	86.37	337.5	806.1	2258.1	2145.2
MEAN	6.77	2.68	2.01	2.61	6.77	2.41	0.32	2.79	11.2	26.0	72.8	71.5
MAX	23	4.4	2.6	7.4	51	5.6	0.83	20	59	94	404	351
MIN	2.9	1.9	1.5	1.4	1.3	1.0	0.00	0.00	1.2	2.1	3.1	8.2
AC-FT	417	159	123	160	376	148	19	171	669	1600	4480	4260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

MEAN	10.2	3.31	5.86	5.79	3.85	12.9	9.68	7.05	22.2	38.0	48.9	64.2
MAX	41.8	13.2	53.6	16.3	8.99	68.2	53.2	60.4	196	167	137	202
(WY)	1995	1984	1984	1993	1992	1987	1993	1991	1992	2001	1988	1988
MIN	0.66	0.16	0.28	0.40	0.097	1.15	0.004	0.000	0.000	0.24	8.59	6.10
(WY)	2001	2001	2001	2001	2001	1989	1989	1989	1990	1990	1989	1990

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1984 - 2002

ANNUAL TOTAL	12866.04	6340.32		
ANNUAL MEAN	35.2	17.4	19.7	
HIGHEST ANNUAL MEAN			34.4	1995
LOWEST ANNUAL MEAN			2.65	1990
HIGHEST DAILY MEAN	1220	Sep 15	404	Aug 30
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	May 2	0.00	May 4
MAXIMUM PEAK FLOW			417	Sep 3
MAXIMUM PEAK STAGE			16.05	Sep 3
ANNUAL RUNOFF (AC-FT)	25520	12580	14310	19.61
10 PERCENT EXCEEDS	77	41	46	Jun 27 1992
50 PERCENT EXCEEDS	2.1	2.7	2.6	
90 PERCENT EXCEEDS	0.00	0.46	0.16	

MYAKKA RIVER BASIN

02298830 MYAKKA RIVER NEAR SARASOTA, FL

LOCATION.--Lat 27°14'25", long 82°18'50" (1927 North American datum), 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.

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

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	614	216	34	26	51	249	32	26	10	768	453	882
2	581	206	32	27	48	252	31	24	9.8	876	447	887
3	553	197	31	30	45	248	30	23	9.4	1010	441	978
4	528	187	31	30	42	243	29	22	8.9	1140	437	1070
5	504	177	30	30	39	233	28	21	8.6	1190	442	1120
6	480	163	29	31	32	217	27	20	8.3	1180	455	1080
7	460	153	28	31	31	203	26	18	8.2	1130	472	979
8	441	143	27	31	30	190	25	17	8.2	1050	491	859
9	419	135	26	30	29	176	24	16	9.7	974	498	751
10	395	126	27	30	28	161	24	15	9.5	890	494	659
11	373	118	27	29	29	146	23	13	9.1	787	486	616
12	353	112	28	29	29	131	23	12	9.4	707	481	592
13	333	105	28	29	28	118	26	12	10	660	474	578
14	315	98	29	30	29	108	25	11	11	636	477	579
15	300	90	30	41	29	99	24	9.9	11	623	511	577
16	284	83	30	45	28	91	24	9.8	13	622	532	565
17	270	78	30	50	27	83	27	12	15	629	548	543
18	256	73	31	58	27	75	32	11	21	635	554	516
19	243	68	31	67	26	69	31	13	27	634	578	486
20	232	64	31	73	26	63	31	14	36	612	631	456
21	226	60	31	77	25	58	31	13	42	592	701	429
22	226	57	31	79	31	53	31	13	48	573	749	402
23	220	54	30	79	43	48	31	13	57	548	728	379
24	216	51	27	78	48	44	30	13	72	536	692	356
25	213	48	26	75	67	42	30	12	95	533	647	334
26	220	46	26	73	121	39	29	12	139	526	615	314
27	229	43	26	70	181	37	29	12	212	517	600	298
28	235	40	26	66	225	36	28	12	372	496	625	283
29	236	38	27	62	---	34	27	11	519	479	712	280
30	232	35	27	58	---	33	26	11	624	469	832	269
31	224	---	27	54	---	32	---	11	---	462	881	---
TOTAL	10411	3064	894	1518	1394	3611	834	452.7	2433.1	22484	17684	18117
MEAN	336	102	28.8	49.0	49.8	116	27.8	14.6	81.1	725	570	604
MAX	614	216	34	79	225	252	32	26	624	1190	881	1120
MIN	213	35	26	26	25	32	23	9.8	8.2	462	437	269
CFSM	1.47	0.45	0.13	0.21	0.22	0.51	0.12	0.06	0.35	3.17	2.49	2.64
IN.	1.69	0.50	0.15	0.25	0.23	0.59	0.14	0.07	0.40	3.65	2.87	2.94
*PREC	1.76	0.00	0.18	1.54	4.44	0.34	1.96	2.71	5.78	5.84	12.48	4.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2002, BY WATER YEAR (WY)

MEAN	386	109	76.7	112	127	162	95.7	38.4	172	434	616	692
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	0.66	0.10	0.15	0.000	0.000	0.000	0.000	0.000	5.21	45.8	15.7
(WY)	1975	1975	1943	1943	1943	1939	1938	1938	1944	1955	1942	1938

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1937 - 2002

ANNUAL TOTAL	123426.1	82896.8	
ANNUAL MEAN	338	227	252
HIGHEST ANNUAL MEAN			606
LOWEST ANNUAL MEAN			73.1
HIGHEST DAILY MEAN	5030	Sep 17	1190
LOWEST DAILY MEAN	6.7	Jan 1	8.2
ANNUAL SEVEN-DAY MINIMUM	7.1	Jan 1	8.8
MAXIMUM PEAK FLOW			1190
MAXIMUM PEAK STAGE			7.88
ANNUAL RUNOFF (CFSM)	1.48		0.99
ANNUAL RUNOFF (INCHES)	20.05		13.47
10 PERCENT EXCEEDS	1030		627
50 PERCENT EXCEEDS	48		64
90 PERCENT EXCEEDS	9.3		14
			0.90

*PRECIPITATION, TOTAL, INCHES

MYAKKA RIVER BASIN

02298928 TRIBUTARY TO MYAKKA RIVER NEAR VENICE, FL

LOCATION.--Lat 27°07'22", long 82°20'34", corrected (1927 North American datum), 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. Highway 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	0.48	0.00	0.00	0.00	0.49	0.00	0.00	0.00	4.9	5.5	81
2	18	0.41	0.00	0.00	0.00	0.43	0.00	0.00	0.00	20	4.9	63
3	14	0.36	0.00	0.00	0.00	0.36	0.00	0.00	0.00	16	4.9	47
4	12	0.31	0.00	0.00	0.00	0.23	0.00	0.00	0.00	13	4.1	35
5	10	0.32	0.00	0.00	0.00	0.11	0.00	0.00	0.00	11	4.0	27
6	8.4	0.28	0.00	0.00	0.00	0.08	0.00	0.00	0.00	8.7	4.2	22
7	7.9	0.24	0.00	0.00	0.00	0.02	0.00	0.00	0.00	7.2	3.9	18
8	7.3	0.20	0.00	0.00	0.00	0.03	0.00	0.00	0.00	5.9	3.3	14
9	6.0	0.15	0.00	0.00	0.00	0.02	0.00	0.00	0.00	4.8	2.6	12
10	4.9	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.8	2.1	9.8
11	4.0	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	1.7	9.6
12	3.4	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	1.5	12
13	2.9	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.3	1.5	13
14	2.6	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	3.7	14
15	2.0	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	22	20
16	1.8	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.6	13	16
17	1.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	8.4	13
18	1.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.5	6.7	10
19	1.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9	6.2	8.7
20	1.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3	6.2	9.3
21	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	26	10
22	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	61	8.2
23	1.2	0.00	0.00	0.00	1.8	0.00	0.00	0.00	0.00	0.99	59	6.9
24	1.1	0.00	0.00	0.00	1.4	0.00	0.00	0.00	0.00	0.74	43	6.7
25	0.97	0.00	0.00	0.00	1.1	0.00	0.00	0.00	0.00	1.8	29	6.7
26	0.95	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	6.6	20	5.7
27	0.90	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	11	20	5.1
28	0.75	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	11	57	4.3
29	0.61	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	7.5	56	3.9
30	0.55	0.00	0.00	0.00	---	0.00	0.00	0.00	0.02	9.2	53	3.5
31	0.51	---	0.00	0.00	---	0.00	---	0.00	---	7.2	65	---
TOTAL	143.24	3.18	0.00	0.00	6.42	1.77	0.00	0.00	0.02	180.43	599.4	515.4
MEAN	4.62	0.11	0.000	0.000	0.23	0.057	0.000	0.000	0.001	5.82	19.3	17.2
MAX	23	0.48	0.00	0.00	1.8	0.49	0.00	0.00	0.02	20	65	81
MIN	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	1.5	3.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	14.1	11.2	3.46	3.22	11.5	15.7	0.46	0.020	0.80
MAX	37.9	77.4	29.2	22.3	100	140	3.89	0.12	5.21
(WY)	1996	1998	1998	1998	1998	1998	1998	1996	1995
MIN	2.27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	2001	2001	1997	1997	1997	1994	1994	1994	1994

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1994 - 2002	
ANNUAL TOTAL	9706.86		1449.86			
ANNUAL MEAN	26.6		3.97		12.2	
HIGHEST ANNUAL MEAN					34.5	
LOWEST ANNUAL MEAN					3.97	
HIGHEST DAILY MEAN	783	Sep 18	81	Sep 1	783	Sep 18 2001
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Nov 17	0.00	Dec 8 1993
MAXIMUM PEAK FLOW					85	
MAXIMUM PEAK STAGE					3.35	
10 PERCENT EXCEEDS	41		11		24	Sep 18 2001
50 PERCENT EXCEEDS	0.00		0.00		0.27	Sep 18 2001
90 PERCENT EXCEEDS	0.00		0.00		0.00	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02299060 DEER PRAIRIE SLOUGH NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°10'33", long 82°12'42" (1927 North American datum), in NE¼ sec.16, T.38 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, near center of span on downstream side of wooden bridge, 1.3 mi south of State Highway 72, 7.2 mi upstream from mouth, and 12.4 mi south of Myakka City.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--October 1983 to September 1992 (miscellaneous discharge measurements only); October 1993 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. 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 except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	2.6	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.14	22	41
2	12	2.4	0.04	0.00	0.00	0.00	0.00	0.00	0.00	7.0	21	37
3	11	2.2	0.03	0.00	0.00	0.00	0.00	0.00	0.00	27	21	33
4	9.9	2.1	0.02	0.00	0.00	0.00	0.00	0.00	0.00	33	20	30
5	8.6	1.9	0.02	0.00	0.00	0.00	0.00	0.00	0.00	32	18	27
6	7.5	1.7	0.01	0.00	0.00	0.00	0.00	0.00	0.00	31	17	25
7	7.3	1.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29	16	23
8	7.3	1.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	16	22
9	6.3	1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	15	20
10	5.9	1.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	15	19
11	5.3	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26	14	18
12	5.0	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	13	19
13	4.5	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	12	20
14	4.4	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	14	e21
15	4.0	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	25	e20
16	3.8	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	25	e19
17	3.4	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	24	e17
18	3.2	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32	23	e14
19	3.1	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29	21	12
20	3.4	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26	19	11
21	3.4	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	18	11
22	3.3	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	16	9.6
23	3.2	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	15	8.5
24	3.2	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	14	7.9
25	3.0	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	15	7.5
26	3.3	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	15	7.2
27	3.2	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22	19	7.1
28	3.1	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22	28	6.2
29	3.0	0.08	0.00	0.00	---	0.00	0.00	0.00	0.00	22	40	5.7
30	2.9	0.07	0.00	0.00	---	0.00	0.00	0.00	0.00	24	45	5.1
31	2.8	---	0.00	0.00	---	0.00	---	0.00	---	24	45	---
TOTAL	164.3	26.67	0.17	0.00	0.00	0.00	0.00	0.00	0.00	744.14	641	523.8
MEAN	5.30	0.89	0.005	0.000	0.000	0.000	0.000	0.000	0.000	24.0	20.7	17.5
MAX	14	2.6	0.05	0.00	0.00	0.00	0.00	0.00	0.00	33	45	41
MIN	2.8	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	12	5.1
AC-FT	326	53	0.3	0.00	0.00	0.00	0.00	0.00	0.00	1480	1270	1040
*PREC	3.03	0.04	0.48	2.20	4.55	0.23	0.68	0.62	0.60	6.38	7.52	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	17.1	6.99	5.13	3.40	3.84	5.97	1.19	0.046	0.74
MAX	45.6	30.4	43.9	26.9	32.0	53.2	10.6	0.40	6.29
(WY)	1996	1998	1998	1998	1998	1998	1998	1998	1995
MIN	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071
(WY)	1997	1997	1997	1997	1997	1997	1994	1994	1998

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1994 - 2002

ANNUAL TOTAL	3413.57	2100.08		
ANNUAL MEAN	9.35	5.75	9.42	
HIGHEST ANNUAL MEAN			19.5	1998
LOWEST ANNUAL MEAN			3.23	1997
HIGHEST DAILY MEAN	205	Sep 16	45	Aug 30
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Dec 7
MAXIMUM PEAK FLOW			47	Aug 30
MAXIMUM PEAK STAGE			28.84	Aug 30
ANNUAL RUNOFF (AC-FT)	6770	4170	6820	
10 PERCENT EXCEEDS	28	23	31	
50 PERCENT EXCEEDS	0.00	0.00	0.18	
90 PERCENT EXCEEDS	0.00	0.00	0.00	

*PRECIPITATION, TOTAL, INCHES

MYAKKA RIVER BASIN

02299120 DEER PRAIRIE SLOUGH AT POWER LINE NEAR NORTH PORT, FL

LOCATION.--Lat 27°08'06", long 82°15'24" (1927 North American datum), in NE¼ 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.--32 mi², approximately.

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 poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e44	16	0.01	0.00	0.00	0.56	0.00	0.00	0.00	e4.4	36	140
2	e39	14	0.00	0.01	0.00	0.45	0.00	0.00	0.00	e8.5	36	135
3	e35	13	0.00	0.02	0.00	0.35	0.00	0.00	0.00	15	35	118
4	e30	11	0.00	0.02	0.00	0.29	0.00	0.00	0.00	28	32	101
5	e25	10	0.00	0.03	0.00	0.23	0.00	0.00	0.00	41	30	87
6	e21	9.7	0.00	0.02	0.01	0.17	0.00	e0.00	0.00	52	27	76
7	e17	8.6	0.00	0.02	0.01	0.14	0.00	e0.00	0.00	60	25	65
8	e15	7.8	0.00	0.02	0.01	0.13	0.00	e0.00	0.00	60	23	56
9	e15	6.8	0.00	0.02	0.01	0.10	0.00	e0.00	0.00	58	22	50
10	e14	6.1	0.00	0.02	0.02	0.07	0.00	e0.00	0.00	62	20	49
11	e13	5.4	0.00	0.02	0.02	0.05	0.00	e0.00	0.00	61	20	52
12	e11	4.7	0.00	0.02	0.02	0.03	0.00	e0.00	0.00	57	18	55
13	e9.4	4.1	0.00	0.02	0.01	0.02	0.00	e0.00	0.00	55	17	55
14	e8.4	3.6	0.00	0.02	0.02	0.01	0.00	e0.00	0.00	50	19	52
15	e8.2	3.1	0.00	0.03	0.02	0.01	0.00	e0.00	0.00	45	30	49
16	e7.8	2.6	0.00	0.02	0.02	0.00	0.00	e0.00	0.00	40	39	44
17	e7.4	2.2	0.00	0.03	0.02	0.00	0.00	e0.00	0.00	39	50	40
18	e7.0	1.9	0.01	0.04	0.01	0.00	0.00	e0.00	0.00	43	55	36
19	e7.1	1.6	0.01	0.03	0.01	0.00	0.00	e0.00	0.00	49	53	33
20	e7.2	1.3	0.01	0.03	0.01	0.00	0.00	e0.00	0.00	48	48	30
21	e7.4	1.1	0.01	0.02	0.01	0.00	0.00	e0.00	0.00	46	49	27
22	e7.2	0.84	0.01	0.01	0.11	0.00	0.00	0.00	0.00	42	48	24
23	e7.0	0.66	0.01	0.01	1.2	0.00	0.00	0.00	0.00	37	42	23
24	e6.0	0.52	0.01	0.01	1.3	0.00	0.00	0.00	0.00	35	36	21
25	e5.9	0.39	0.01	0.00	1.0	0.00	0.00	0.00	0.00	36	33	23
26	e5.8	0.30	0.02	0.00	0.92	0.00	0.00	0.00	0.00	36	30	22
27	e6.2	0.21	0.02	0.00	0.82	0.00	0.00	0.00	0.00	38	32	21
28	e7.6	0.13	0.01	0.00	0.68	0.00	0.00	0.00	0.00	36	47	20
29	e12	0.08	0.01	0.00	---	0.00	0.00	0.00	0.00	35	54	20
30	e17	0.04	0.01	0.00	---	0.00	0.00	0.00	e2.5	35	78	19
31	18	---	0.01	0.00	---	0.00	---	0.00	---	37	139	---
TOTAL	441.6	137.77	0.17	0.49	6.26	2.61	0.00	0.00	2.50	1288.9	1223	1543
MEAN	14.2	4.59	0.005	0.016	0.22	0.084	0.000	0.000	0.083	41.6	39.5	51.4
MAX	44	16	0.02	0.04	1.3	0.56	0.00	0.00	2.5	62	139	140
MIN	5.8	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.4	17	19

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	69.3	22.5	22.0	16.0	15.4	18.2	3.78	0.60	7.54	52.2	103	117							
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	0.005	0.016	0.000	0.000	0.000	0.000	0.005	1.27	19.4	3.43							
(WY)	1994	1997	2002	2002	2001	2001	2002	1999	2001	1996	1996	1996							

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1994 - 2002

ANNUAL TOTAL	15508.81	4646.30		
ANNUAL MEAN	42.5	12.7	37.4	
HIGHEST ANNUAL MEAN			73.9	1995
LOWEST ANNUAL MEAN			12.7	2002
HIGHEST DAILY MEAN	688	Sep 17	140	Sep 1
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 29	0.00	Dec 2
MAXIMUM PEAK FLOW			156	Sep 1
MAXIMUM PEAK STAGE			25.69	Sep 1
10 PERCENT EXCEEDS	153		46	
50 PERCENT EXCEEDS	0.02		0.02	2.6
90 PERCENT EXCEEDS	0.00		0.00	0.00

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02299360 SNOVER WATERWAY CANAL NEAR MURDOCK, FL

LOCATION.--Lat 27°04'34", long 82°09'20" (1927 North American datum), in NE $\frac{1}{4}$ sec.24, T.39 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, on left bank, on Toledo Bridge Road, 1.5 mi south of interstate I-75, and 4.6 mi north of Murdock.
 DRAINAGE AREA.--24 mi², approximately.
 PERIOD OF RECORD.--July 1998 to current year (gage heights only). Prior to Oct. 1, 2000, published under latitude/longitude 270434082092000.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 20.73 ft, Sept. 14, 2001; minimum, unknown.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.32 ft, Aug. 27; minimum, 16.10 ft, Dec. 15, 16, Feb. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.26	16.34	16.12	16.24	16.13	16.74	16.51	16.58	16.85	18.13	18.10	18.24
2	17.10	16.31	16.12	16.27	16.13	16.71	16.51	16.57	16.84	18.16	18.12	18.21
3	16.98	16.29	16.12	16.30	16.12	16.67	16.51	16.56	16.83	18.15	18.12	---
4	16.87	16.29	16.12	16.27	16.11	16.60	16.52	16.55	16.82	18.11	18.08	---
5	16.80	16.32	16.12	16.26	16.11	16.54	16.51	16.54	16.82	18.10	18.04	---
6	16.74	16.29	16.12	16.26	16.12	16.51	16.51	16.53	16.82	18.10	18.06	18.10
7	16.71	---	16.12	16.30	16.16	16.50	16.50	16.52	16.81	18.10	18.08	18.06
8	16.71	16.26	16.13	16.33	16.22	16.50	16.49	16.52	16.84	18.09	18.12	17.99
9	16.67	16.25	16.14	16.35	16.20	16.49	16.49	16.50	16.91	18.09	18.13	17.89
10	16.63	16.23	16.15	16.36	16.20	16.47	16.48	16.49	16.90	18.10	18.10	17.79
11	16.60	16.23	16.14	16.38	16.21	16.46	16.48	16.47	16.88	18.08	18.06	17.77
12	16.56	16.23	16.12	16.39	16.21	16.45	16.56	16.46	16.88	18.06	18.02	17.94
13	16.51	16.22	16.12	16.43	16.21	16.44	16.95	16.45	16.93	18.08	17.96	18.07
14	16.47	16.21	16.11	16.45	16.22	16.43	16.85	16.44	17.18	18.09	18.00	18.00
15	16.49	16.20	16.11	16.71	16.22	16.43	16.79	16.43	17.16	18.07	18.18	17.93
16	16.45	16.20	16.11	16.72	16.22	16.43	16.75	16.42	17.15	18.05	18.10	17.83
17	16.42	16.18	16.11	16.71	16.22	16.44	16.74	16.83	17.16	18.02	18.08	17.73
18	16.40	16.18	16.13	16.70	16.22	16.44	16.75	16.79	17.29	17.99	18.15	17.64
19	16.39	16.17	16.13	16.70	16.22	16.45	16.76	17.01	17.31	17.92	18.13	17.55
20	16.43	16.17	16.13	16.70	16.22	16.45	16.73	17.14	17.35	17.85	18.09	17.48
21	16.47	16.17	16.12	16.70	16.22	16.46	16.71	17.09	17.41	17.78	18.06	17.42
22	16.48	16.17	16.14	16.70	16.50	16.46	16.70	17.05	17.43	17.75	18.05	17.39
23	16.48	16.17	16.16	16.70	16.90	16.46	16.69	17.01	17.44	17.74	18.03	17.39
24	16.46	16.16	16.16	16.68	16.79	16.46	16.67	16.97	17.44	17.75	17.98	17.43
25	16.43	16.16	16.17	16.60	16.76	16.49	16.66	16.95	17.45	17.75	17.96	17.41
26	16.41	16.15	16.18	16.34	16.77	16.56	16.64	16.94	17.61	17.79	17.87	17.37
27	16.38	16.14	16.18	16.24	16.77	16.55	16.63	16.92	18.07	17.78	18.08	17.40
28	16.36	16.14	16.18	16.19	16.75	16.54	16.61	16.91	18.05	17.88	18.24	17.36
29	16.34	16.13	16.19	16.17	---	16.53	16.60	16.89	18.08	17.98	18.20	17.39
30	16.34	16.13	16.21	16.16	---	16.52	16.59	16.87	18.07	18.15	18.29	17.36
31	16.37	---	16.24	16.15	---	16.52	---	16.86	---	18.16	18.28	---
MEAN	16.57	---	16.14	16.43	16.33	16.51	16.63	16.72	17.23	18.00	18.09	---
MAX	17.26	---	16.24	16.72	16.90	16.74	16.95	17.14	18.08	18.16	18.29	---
MIN	16.34	---	16.11	16.15	16.11	16.43	16.48	16.42	16.81	17.74	17.87	---

MYAKKA RIVER BASIN

02299410 BIG SLOUGH CANAL NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°11'35", long 82°08'40" (1927 North American datum), in SW¼ 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 and tipping bucket raingage recorders. Datum of gage is 2.28 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to September 1966, nonrecording gage at same site at datum 24.34 ft higher.

REMARKS.--Records good. Prior to September 1966, flow included from Mud Lake Slough.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	3.8	0.89	1.1	1.8	22	1.6	0.00	0.00	188	105	360
2	39	3.5	0.88	1.8	1.9	21	1.3	0.00	0.00	250	115	347
3	32	3.2	0.86	2.1	2.1	18	1.2	0.15	0.00	285	189	292
4	27	2.9	0.84	2.0	2.2	15	1.1	0.11	0.00	320	214	266
5	24	2.8	1.3	1.9	2.0	14	1.0	0.00	0.00	348	215	248
6	21	2.6	1.3	1.8	1.7	12	0.79	0.07	0.00	361	187	210
7	19	2.3	1.3	1.8	2.1	12	0.50	0.35	0.76	291	154	176
8	22	2.2	2.0	1.9	3.6	12	0.36	0.07	2.6	241	137	142
9	22	2.0	2.0	1.7	4.8	11	0.27	0.00	8.4	224	127	109
10	18	1.8	1.6	2.8	4.1	9.6	0.23	0.00	8.4	173	111	82
11	16	1.7	1.5	2.4	4.1	8.8	0.23	0.00	7.2	129	86	68
12	15	1.5	1.4	1.8	4.9	8.1	0.46	0.00	6.7	109	68	78
13	13	1.4	1.1	1.6	3.9	7.3	1.1	0.00	13	186	61	85
14	12	1.4	1.2	2.5	3.5	6.9	4.0	0.00	24	170	82	81
15	11	1.4	1.3	6.7	3.4	6.7	9.5	0.00	21	144	108	69
16	9.9	1.3	1.1	8.0	3.4	6.4	7.8	0.95	21	111	80	57
17	9.2	1.1	1.2	6.1	3.2	6.1	6.1	1.2	25	90	70	47
18	8.6	1.1	1.4	4.7	2.9	5.6	4.7	0.27	32	81	139	39
19	8.2	1.1	1.3	3.8	2.6	5.3	3.5	2.9	30	64	210	32
20	7.8	1.1	1.3	3.3	2.6	5.2	2.6	1.8	30	55	218	26
21	7.2	1.1	1.4	3.0	2.4	4.7	1.9	0.73	35	51	235	22
22	12	1.1	1.3	2.7	17	4.3	1.3	0.38	49	93	219	19
23	9.1	1.0	1.0	2.5	62	3.9	0.87	0.23	59	117	177	16
24	9.0	0.91	0.88	2.3	79	3.4	0.67	0.12	62	121	128	15
25	8.4	0.95	1.5	2.0	75	3.0	0.53	0.05	62	108	88	14
26	8.6	0.90	1.4	1.8	54	2.9	0.26	0.01	98	91	66	13
27	7.7	0.88	1.1	1.7	37	2.6	0.11	0.00	204	89	122	14
28	6.3	0.87	0.97	1.8	27	2.7	0.04	0.00	239	93	321	13
29	5.4	0.91	1.9	1.8	---	2.5	0.02	0.00	195	84	363	13
30	4.8	0.88	1.5	1.9	---	2.3	0.00	0.00	164	121	345	12
31	4.3	---	1.2	2.1	---	2.2	---	0.00	---	123	374	---
TOTAL	465.5	49.70	39.92	83.4	414.2	247.5	54.04	9.39	1397.06	4911	5114	2965
MEAN	15.0	1.66	1.29	2.69	14.8	7.98	1.80	0.30	46.6	158	165	98.8
MAX	48	3.8	2.0	8.0	79	22	9.5	2.9	239	361	374	360
MIN	4.3	0.87	0.84	1.1	1.7	2.2	0.00	0.00	0.00	51	61	12
AC-FT	923	99	79	165	822	491	107	19	2770	9740	10140	5880
*PREC	1.55	0.06	0.67	2.18	5.49	0.66	1.30	4.15	12.99	8.74	10.07	3.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2002, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	34.9	14.0	15.9	16.4	19.2	33.7	13.9	4.60	58.5	60.5	76.1	93.9											
MAX	204	119	195	125	143	236	90.4	27.3	605	240	230	260											
(WY)	1996	1998	1998	1998	1998	1998	1993	1991	1992	2001	1992	2001											
MIN	0.80	0.35	0.22	0.034	0.37	0.49	0.26	0.011	0.049	0.85	6.24	2.23											
(WY)	1985	1981	1992	1981	2001	1981	1981	2000	1998	1993	1993	1996											

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1981 - 2002

ANNUAL TOTAL	19458.06	15750.71		
ANNUAL MEAN	53.3	43.2		36.8
HIGHEST ANNUAL MEAN				87.6
LOWEST ANNUAL MEAN				5.26
HIGHEST DAILY MEAN	1280	Sep 16	374	Aug 31
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 23	0.00	May 9
MAXIMUM PEAK FLOW			419	Jul 5
MAXIMUM PEAK STAGE			30.04	Aug 28
ANNUAL RUNOFF (AC-FT)	38600	31240	26690	
10 PERCENT EXCEEDS	163	158	90	
50 PERCENT EXCEEDS	2.2	4.3	6.4	
90 PERCENT EXCEEDS	0.00	0.27	0.37	

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOSROUGH RIVERS AND WESTERN COASTAL AREA

MYAKKA RIVER BASIN

02299450 BIG SLOUGH AT TROPICAIRE BOULEVARD NEAR PORT CHARLOTTE, FL

LOCATION.--Lat 27°07'15", long 82°11'37" (1927 North American datum), in SE¹/₄ sec.34, T.38 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, on upstream side of bridge on Tropicaire Boulevard, 4.0 mi north of North Port Charlotte, and 6.0 mi upstream from mouth.

DRAINAGE AREA.--81 mi².

PERIOD OF RECORD.-June 2001 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

DISCHARGE, CUBIC FEET PER SECOND, PERIOD JUNE TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	71	251	30
2	---	---	---	---	---	---	---	---	---	68	189	102
3	---	---	---	---	---	---	---	---	---	64	286	80
4	---	---	---	---	---	---	---	---	---	57	347	79
5	---	---	---	---	---	---	---	---	---	102	428	64
6	---	---	---	---	---	---	---	---	---	89	432	56
7	---	---	---	---	---	---	---	---	---	71	481	75
8	---	---	---	---	---	---	---	---	---	51	400	101
9	---	---	---	---	---	---	---	---	---	40	378	77
10	---	---	---	---	---	---	---	---	---	45	381	85
11	---	---	---	---	---	---	---	---	---	118	309	113
12	---	---	---	---	---	---	---	---	---	168	253	181
13	---	---	---	---	---	---	---	---	---	187	238	240
14	---	---	---	---	---	---	---	---	---	231	221	798
15	---	---	---	---	---	---	---	---	---	311	181	1100
16	---	---	---	---	---	---	---	---	---	350	135	1090
17	---	---	---	---	---	---	---	---	---	437	105	1060
18	---	---	---	---	---	---	---	---	---	496	87	960
19	---	---	---	---	---	---	---	---	---	462	75	825
20	---	---	---	---	---	---	---	---	---	458	71	652
21	---	---	---	---	---	---	---	---	---	444	76	465
22	---	---	---	---	---	---	---	---	---	780	108	345
23	---	---	---	---	---	---	---	---	---	923	115	301
24	---	---	---	---	---	---	---	---	---	937	95	224
25	---	---	---	---	---	---	---	---	---	864	76	159
26	---	---	---	---	---	---	---	---	---	802	61	135
27	---	---	---	---	---	---	---	---	---	700	50	128
28	---	---	---	---	---	---	---	---	---	30	540	41
29	---	---	---	---	---	---	---	---	---	44	408	34
30	---	---	---	---	---	---	---	---	---	62	349	30
31	---	---	---	---	---	---	---	---	---	357	29	---
TOTAL	---	---	---	---	---	---	---	---	---	10980	5963	9897
MEAN	---	---	---	---	---	---	---	---	---	354	192	330
MAX	---	---	---	---	---	---	---	---	---	937	481	1100
MIN	---	---	---	---	---	---	---	---	---	40	29	30
MED	---	---	---	---	---	---	---	---	---	349	135	132
CFSM	---	---	---	---	---	---	---	---	---	4.37	2.37	4.07
IN.	---	---	---	---	---	---	---	---	---	5.04	2.74	4.55
*PREC	---	---	---	---	---	---	---	---	---	20.90	11.17	15.93

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	---	---	---	---	---	354	192	330
MAX	---	---	---	---	---	---	---	---	---	354	192	330
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001
MIN	---	---	---	---	---	---	---	---	---	354	192	330
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001

*PRECIPITATION, TOTAL, INCHES

MYAKKA RIVER BASIN

02299450 BIG SLOUGH AT TROPICAIRES BOULEVARD NEAR PORT CHARLOTTE, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	11	1.7	1.7	2.4	42	1.9	0.32	0.70	260	204	559
2	90	10	1.6	2.1	2.3	35	1.6	0.31	0.88	324	191	554
3	81	9.4	1.6	3.4	2.5	29	1.6	0.31	0.87	319	244	539
4	72	8.6	1.6	3.0	2.5	23	1.6	0.30	0.85	302	280	495
5	64	8.6	1.7	3.1	2.3	19	1.3	0.29	0.90	297	296	447
6	58	7.6	2.0	3.1	2.2	15	1.2	0.29	0.95	314	297	409
7	52	6.9	2.1	2.9	2.4	14	1.0	0.28	1.1	324	279	368
8	53	6.2	2.6	2.7	3.8	15	0.87	0.26	1.4	292	260	316
9	51	5.7	3.2	2.5	4.9	13	0.78	0.24	2.4	270	248	267
10	42	5.3	3.2	2.7	4.7	11	0.69	0.24	7.2	250	239	230
11	33	5.0	2.9	3.6	4.4	9.2	0.64	0.22	5.7	207	218	217
12	27	4.5	2.7	3.0	4.8	8.0	1.5	0.21	4.9	179	192	220
13	23	4.2	2.5	2.7	4.4	7.0	3.7	0.23	4.9	231	176	217
14	19	4.0	2.3	3.1	3.7	6.2	1.7	0.22	27	246	224	205
15	17	3.8	2.2	13	3.4	5.7	5.4	0.19	23	223	379	194
16	14	3.5	2.1	14	3.3	5.2	5.9	0.18	22	196	299	169
17	12	3.2	2.0	13	2.8	4.7	4.3	0.36	26	204	246	150
18	10	3.1	2.0	11	2.2	4.2	3.1	0.32	31	282	270	132
19	9.3	2.9	1.8	9.1	1.8	3.9	2.2	4.3	31	198	358	115
20	12	2.8	1.6	8.1	1.5	3.6	1.6	4.4	29	159	384	99
21	12	2.6	1.4	7.0	1.4	3.5	1.3	1.8	30	136	394	87
22	29	2.5	1.5	6.0	18	3.3	1.0	1.2	51	153	408	73
23	29	2.3	1.4	5.2	91	3.1	0.77	0.96	57	183	392	62
24	29	2.2	1.3	4.5	112	2.9	0.62	0.80	70	201	338	56
25	25	2.1	1.2	3.9	113	2.7	0.48	0.64	76	201	274	50
26	23	2.1	2.0	3.5	104	2.4	0.43	0.60	102	190	232	43
27	23	1.9	1.7	3.0	80	2.5	0.40	0.59	166	180	310	47
28	19	1.8	1.6	2.9	55	2.2	0.37	0.59	226	182	518	40
29	17	1.8	1.7	2.8	---	2.2	0.34	0.62	243	179	563	42
30	15	1.8	2.1	2.5	---	2.1	0.33	0.65	223	203	580	40
31	13	---	1.8	2.5	---	2.0	---	0.67	---	213	588	---
TOTAL	1075.3	137.4	61.1	151.6	636.7	302.6	48.62	22.59	1465.75	7098	9881	6442
MEAN	34.7	4.58	1.97	4.89	22.7	9.76	1.62	0.73	48.9	229	319	215
MAX	102	11	3.2	14	113	42	5.9	4.4	243	324	588	559
MIN	9.3	1.8	1.2	1.7	1.4	2.0	0.33	0.18	0.70	136	176	40
MED	25	3.6	1.8	3.1	3.6	5.2	1.2	0.32	24	207	280	181
CFSM	0.43	0.06	0.02	0.06	0.28	0.12	0.02	0.01	0.60	2.83	3.94	2.65
IN.	0.49	0.06	0.03	0.07	0.29	0.14	0.02	0.01	0.67	3.26	4.54	2.96
*PREC	1.04	0.49	1.07	2.43	5.06	0.78	3.28	3.45	11.50	7.59	8.52	6.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	34.7	4.58	1.97	4.89	22.7	9.76	1.62	0.73	48.9	292	256	272
MAX	34.7	4.58	1.97	4.89	22.7	9.76	1.62	0.73	48.9	354	319	330
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2002	2001
MIN	34.7	4.58	1.97	4.89	22.7	9.76	1.62	0.73	48.9	229	192	215
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2002

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	27322.66	
ANNUAL MEAN	74.9	74.9
HIGHEST ANNUAL MEAN		74.9 2002
LOWEST ANNUAL MEAN		74.9 2002
HIGHEST DAILY MEAN	588	Aug 31 1100 Sep 15 2001
LOWEST DAILY MEAN	0.18	May 16 0.18 May 16 2002
ANNUAL SEVEN-DAY MINIMUM	0.21	May 10 0.21 May 10 2002
MAXIMUM PEAK FLOW	597	Aug 30 1110 Sep 15 2001
MAXIMUM PEAK STAGE	21.73	Aug 31 25.47 Sep 15 2001
ANNUAL RUNOFF (CFSM)	0.92	
ANNUAL RUNOFF (INCHES)	12.55	12.56
10 PERCENT EXCEEDS	268	268
50 PERCENT EXCEEDS	5.4	5.4
90 PERCENT EXCEEDS	0.78	0.78

*PRECIPITATION, TOTAL, INCHES

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" (1927 North American datum), in NE $\frac{1}{4}$ sec.31, T.39 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, on left bank, 200 ft upstream from control structure 101 in North Port, 800 ft upstream from mouth of Cocoplum Waterway, 0.2 mi north of U. S. Highway 41, and 2.8 mi upstream from mouth.

DRAINAGE AREA.--90 mi², approximately.

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

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 15.60 ft below National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 22.74 ft, June 23, 1995; minimum, 18.34 ft, Apr. 17, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 20.81 ft, Aug. 31; minimum, 19.04 ft, Sept. 24.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.22	20.00	19.80	19.77	19.77	20.20	19.74	19.70	19.40	20.29	---	20.64
2	20.40	19.99	19.81	19.79	19.75	20.17	19.73	19.70	19.25	20.36	---	20.60
3	20.39	19.97	19.79	19.86	19.76	20.14	19.71	19.68	19.31	20.37	19.80	20.65
4	20.30	19.97	19.79	19.82	19.76	20.10	19.72	19.66	19.40	20.06	---	20.49
5	20.29	20.00	19.80	19.80	19.79	20.07	19.70	19.63	19.50	20.15	19.89	20.47
6	20.27	19.94	19.82	19.80	19.77	20.05	19.68	19.65	19.45	---	19.88	20.24
7	20.26	19.91	19.85	19.78	19.80	20.05	19.67	19.66	19.41	---	19.82	20.09
8	20.24	19.90	19.86	19.78	19.86	20.06	19.63	19.63	19.62	20.19	19.76	20.02
9	20.24	19.88	19.89	19.76	19.85	20.03	19.63	19.63	19.79	20.10	19.68	19.90
10	20.21	19.88	19.90	19.77	19.86	20.01	19.62	19.65	19.74	20.16	19.62	20.04
11	20.18	19.87	19.90	19.79	19.85	19.98	19.65	19.63	19.75	19.89	19.52	20.04
12	20.15	19.86	19.89	19.80	19.85	19.96	19.67	19.65	19.79	19.73	19.40	20.25
13	20.12	19.85	19.88	19.79	19.86	19.94	19.99	19.63	19.76	19.88	19.43	19.99
14	20.10	19.86	19.87	19.80	19.85	19.91	19.84	19.70	19.90	19.99	19.92	19.86
15	20.08	19.88	19.86	20.09	19.83	19.90	19.78	19.67	19.96	19.93	20.44	20.00
16	20.07	19.86	19.83	20.04	19.84	19.88	19.86	19.66	19.95	19.83	20.03	19.75
17	20.04	19.85	19.79	20.00	19.82	19.88	19.82	19.70	19.95	19.85	19.78	19.64
18	20.02	19.84	19.79	19.96	19.80	19.84	19.81	19.65	20.01	20.21	19.79	19.47
19	20.01	19.83	19.78	19.94	19.77	19.84	19.76	---	20.01	19.88	19.96	19.57
20	20.02	19.83	19.75	19.92	19.76	19.83	19.73	19.99	20.02	19.86	20.03	19.79
21	20.02	19.83	19.73	19.90	19.75	19.82	19.72	19.79	19.99	20.02	20.06	19.73
22	20.11	19.83	19.73	19.88	20.10	19.81	19.70	19.69	---	20.13	20.16	19.60
23	20.14	19.83	19.73	19.86	20.47	19.81	19.69	19.65	20.10	20.13	20.11	19.48
24	20.12	19.81	19.72	19.84	20.47	19.82	19.65	19.61	20.14	19.88	20.01	19.31
25	20.12	19.82	19.73	19.84	20.45	19.81	19.68	19.53	20.17	19.68	19.86	19.68
26	20.09	19.81	19.75	19.83	20.42	19.90	19.70	19.34	20.01	19.75	19.61	20.18
27	20.09	19.82	19.74	19.81	20.35	19.81	19.62	19.21	20.17	19.70	19.87	20.24
28	20.07	19.80	19.73	19.79	20.27	19.78	19.61	19.20	20.13	19.72	20.57	20.19
29	20.05	19.81	19.73	19.80	---	19.76	19.62	19.39	20.10	19.69	20.60	20.21
30	20.03	19.81	19.74	19.80	---	19.74	19.63	19.62	20.15	---	20.64	20.21
31	20.01	---	19.76	19.80	---	19.75	---	19.56	---	---	20.71	---
MEAN	20.14	19.87	19.80	19.85	19.95	19.92	19.71	---	---	---	---	20.01
MAX	20.40	20.00	19.90	20.09	20.47	20.20	19.99	---	---	---	---	20.65
MIN	20.01	19.80	19.72	19.76	19.75	19.74	19.61	---	---	---	---	19.31
*PREC	0.82	0.39	0.49	2.00	4.48	0.26	2.55	2.11	7.06	---	---	6.34

*PRECIPITATION, TOTAL, INCHES

WATER RESOURCES DATA FOR FLORIDA, 2002
Volume 3A: Southwest Florida Surface Water

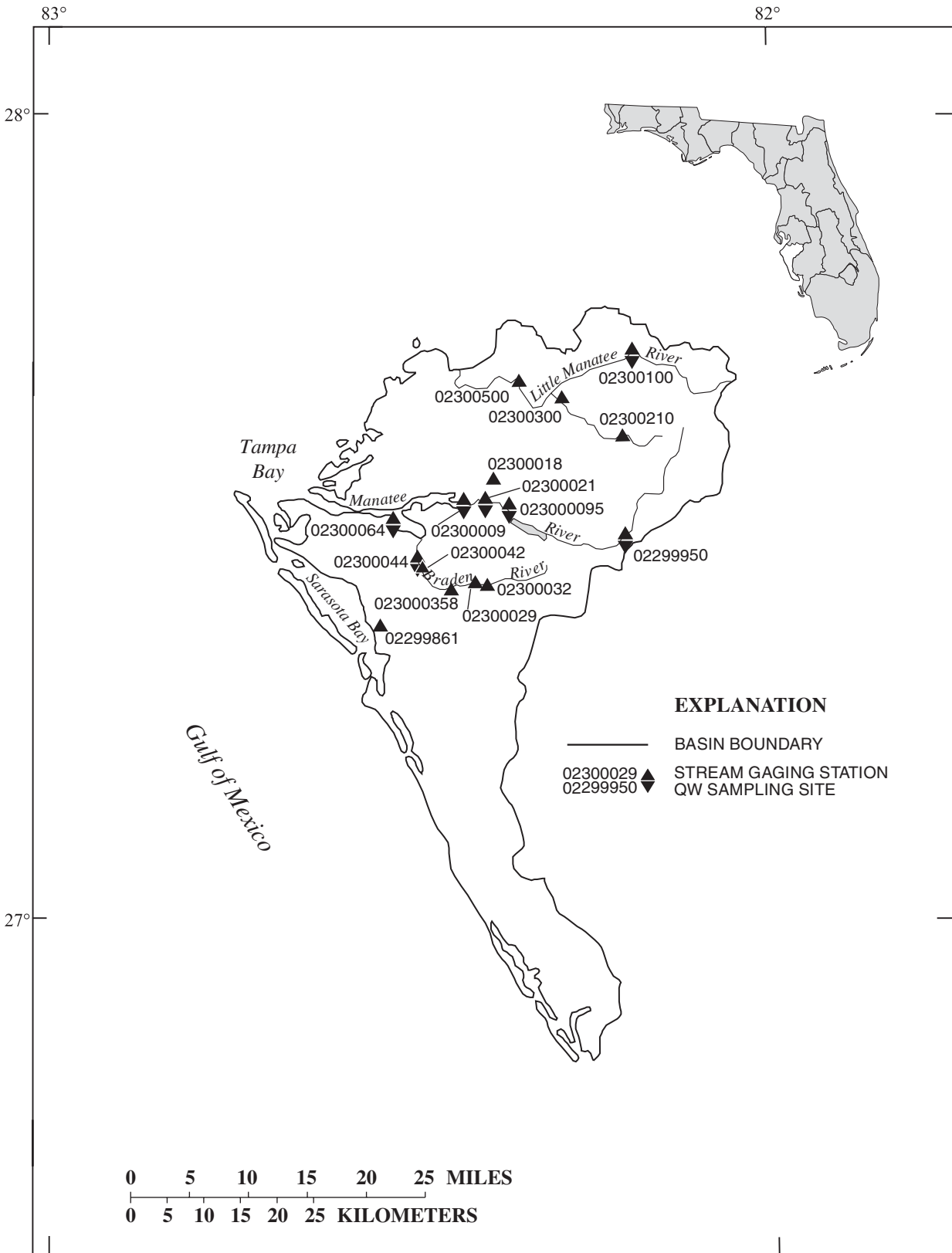


Figure 15.--Location of stream gaging stations in the Coastal area between Myakka and Manatee Rivers, Manatee and Little Manatee River basins.

COASTAL AREA BETWEEN MYAKKA AND MANATEE RIVERS

02299861 WALKER CREEK NEAR SARASOTA, FL

LOCATION.--Lat 27°22'03", long 82°32'40" (1927 North American datum), in NW¼ 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 poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	e2.0	e1.2	1.3	1.4	2.4	0.92	e0.65	e0.36	16	e2.8	38
2	3.6	e1.9	e1.2	3.5	1.4	e2.1	e0.82	e0.59	e0.36	8.2	e4.3	14
3	3.5	e1.9	1.3	2.2	1.4	e2.0	e0.82	0.61	e0.36	5.7	6.5	10
4	e3.3	2.4	1.3	1.7	1.4	2.8	0.87	0.59	e0.36	4.7	3.9	e6.3
5	e3.2	2.4	1.3	1.3	1.3	1.9	0.76	0.59	e0.35	6.2	2.8	29
6	3.8	e1.8	1.2	e1.4	e1.2	1.8	0.77	0.58	e0.35	12	e2.0	17
7	4.0	e1.8	1.2	1.2	3.9	2.5	0.77	0.54	e0.28	9.4	e2.6	e9.4
8	2.8	1.9	1.2	1.2	2.1	2.2	0.84	0.54	7.3	7.3	e1.9	6.9
9	2.6	1.7	1.2	1.1	1.5	1.9	0.74	0.64	2.8	e5.7	e1.3	5.5
10	2.4	1.6	1.3	1.2	1.4	1.7	0.70	e0.54	e1.0	e4.9	e0.88	4.8
11	e2.2	e1.6	e1.2	1.2	1.5	1.6	0.70	0.55	e0.82	e4.5	2.3	20
12	e2.0	e1.5	1.4	e1.2	1.4	1.6	10	e0.49	e0.88	e4.6	1.9	78
13	e2.1	e1.6	e1.1	e1.4	1.4	1.5	4.6	e0.49	e0.88	e5.8	e1.1	33
14	e17	e1.7	e1.1	e1.7	1.6	1.3	1.8	e0.49	e0.76	e9.8	5.1	14
15	74	e1.8	e1.0	7.8	1.4	1.3	1.1	0.48	4.0	9.2	5.1	10
16	e2.0	1.9	1.2	2.6	1.4	1.2	1.0	e0.45	e1.4	7.5	3.0	8.0
17	2.0	1.6	1.5	2.0	1.4	1.2	2.8	e0.49	3.0	6.1	2.6	6.7
18	1.9	1.5	2.6	1.8	1.4	1.2	2.4	e0.54	7.3	5.3	2.7	6.0
19	1.9	1.8	1.4	1.6	1.4	1.1	1.1	e0.54	3.9	5.2	e1.5	5.6
20	e1.8	e1.4	1.1	1.6	e1.4	1.1	0.96	0.57	1.9	e5.0	e1.1	e4.6
21	7.0	e1.4	0.95	1.6	1.3	1.1	0.90	0.54	e1.8	4.5	13	e4.2
22	7.0	1.4	0.93	1.6	5.6	1.1	0.87	0.54	e2.7	e3.7	15	e3.9
23	e4.0	1.3	e0.88	1.6	9.6	1.1	0.83	0.57	e2.2	e3.4	7.0	e3.6
24	e2.9	1.3	1.2	1.6	5.1	1.1	0.79	e0.59	e1.8	e3.0	4.0	e3.7
25	e2.8	1.3	1.3	1.5	3.9	1.1	0.80	e0.65	16	6.8	2.7	e4.0
26	7.4	1.3	1.5	1.4	e3.0	0.97	e0.76	e0.49	e4.8	8.9	4.0	e4.0
27	3.7	1.3	1.7	1.5	e2.8	0.94	e0.76	e0.49	e2.6	9.9	55	e3.9
28	2.8	e1.2	e1.1	e1.4	2.5	0.96	e0.70	e0.45	e2.4	8.5	63	4.0
29	2.4	e1.2	e1.1	1.5	---	0.90	1.1	e0.45	e2.1	4.8	33	3.4
30	e2.1	e1.1	e1.1	1.5	---	0.83	e0.65	e0.40	35	2.4	14	3.4
31	e2.1	---	e1.1	1.4	---	e0.82	---	e0.40	---	1.9	67	---
TOTAL	184.2	48.6	38.86	55.6	65.1	45.32	42.63	16.53	109.76	200.9	333.08	364.9
MEAN	5.94	1.62	1.25	1.79	2.33	1.46	1.42	0.53	3.66	6.48	10.7	12.2
MAX	74	2.4	2.6	7.8	9.6	2.8	10	0.65	35	16	67	78
MIN	1.8	1.1	0.88	1.1	1.2	0.82	0.65	0.40	0.28	1.9	0.88	3.4
CFSM	1.21	0.33	0.26	0.37	0.47	0.30	0.29	0.11	0.75	1.32	2.19	2.48
IN.	1.40	0.37	0.29	0.42	0.49	0.34	0.32	0.13	0.83	1.52	2.52	2.76

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	7.94	4.68	4.14	5.27	4.46	5.45	4.10	1.83	7.42	9.12	11.0	12.3
MAX	28.8	17.7	23.7	16.8	16.0	23.5	14.6	4.24	33.5	24.8	31.5	23.3
(WY)	1996	1998	1998	1998	1998	1998	1993	1996	1992	2001	1995	1992
MIN	1.34	1.22	1.00	0.75	0.61	0.87	0.60	0.32	1.79	2.62	3.14	4.13
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	1994	1998	1997	1996

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1992 - 2002

ANNUAL TOTAL	2337.79	1505.48		
ANNUAL MEAN	6.40	4.12	6.48	
HIGHEST ANNUAL MEAN			10.6	1998
LOWEST ANNUAL MEAN			3.13	2000
HIGHEST DAILY MEAN	350	Sep 14	78	Sep 14 2001
LOWEST DAILY MEAN	0.38	Mar 28	0.28	Jun 7 2000
ANNUAL SEVEN-DAY MINIMUM	0.44	Mar 22	0.35	Jun 1 2000
MAXIMUM PEAK FLOW			328	Sep 12 1992
MAXIMUM PEAK STAGE			7.88	Sep 12 1992
ANNUAL RUNOFF (CFSM)	1.30	0.84	1.32	
ANNUAL RUNOFF (INCHES)	17.71	11.41	17.94	
10 PERCENT EXCEEDS	11	7.4	12	
50 PERCENT EXCEEDS	1.4	1.6	2.8	
90 PERCENT EXCEEDS	0.54	0.65	0.80	

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" (1927 North American datum), in SE¹/₄ 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 and tipping bucket raingage recorders. Datum of gage is 40.93 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Extreme low flow affected at times by ground-water pumpage into channel upstream from station by Manatee County Utilities since about September 1984.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	16	8.9	6.9	9.9	44	6.0	7.0	6.3	494	178	270
2	51	15	8.3	7.2	9.3	42	7.0	5.3	5.5	519	124	197
3	e45	14	9.2	13	8.9	39	5.7	5.7	4.5	695	332	374
4	e40	14	8.0	14	9.4	33	5.8	5.7	3.8	362	358	214
5	e35	15	7.8	12	8.5	29	6.3	5.4	3.6	198	456	136
6	e32	15	8.5	12	7.6	27	6.8	5.7	3.7	134	316	226
7	e30	13	8.2	15	10	28	5.5	6.0	3.6	101	158	257
8	e29	12	13	14	22	26	4.3	4.7	18	98	316	160
9	e27	12	15	e14	25	23	4.0	3.3	16	155	373	105
10	e25	e11	17	e13	20	21	3.6	2.7	11	123	198	79
11	e24	e9.9	13	e13	18	21	3.4	2.3	e8.6	87	131	70
12	e22	e9.6	11	e12	18	19	3.9	2.4	e6.4	104	93	120
13	e19	e11	9.2	e13	16	17	14	2.8	38	484	71	266
14	18	e13	8.8	e17	15	16	180	2.8	35	784	60	250
15	20	e17	8.8	e32	15	15	124	2.8	26	438	e99	151
16	18	e13	8.5	e39	14	15	83	3.5	31	222	e130	131
17	17	e11	8.2	e34	13	13	57	4.7	25	135	e167	101
18	18	e11	8.5	28	12	13	42	3.9	28	111	e208	75
19	17	e11	8.9	23	9.9	11	30	36	32	159	e274	59
20	16	e13	8.8	19	8.9	9.8	21	72	62	449	389	57
21	16	e13	7.8	17	8.4	10	18	56	40	393	209	56
22	32	e12	7.3	16	40	9.5	15	29	123	190	130	59
23	31	e11	7.5	15	220	11	12	16	109	107	96	54
24	30	e8.0	7.1	14	344	10	9.7	11	119	75	75	61
25	28	e8.0	7.5	13	219	9.3	9.5	8.1	554	59	59	131
26	24	e8.3	8.4	13	118	8.2	9.2	6.2	726	48	52	111
27	22	e8.3	9.1	13	77	9.3	9.1	5.8	576	58	146	95
28	20	e7.6	8.5	12	56	8.8	8.7	23	379	51	233	83
29	18	9.0	7.7	11	---	7.4	8.4	17	445	48	253	69
30	17	7.8	7.1	11	---	6.3	7.9	11	422	56	185	79
31	15	---	6.9	11	---	5.8	---	7.7	---	364	353	---
TOTAL	821	349.5	282.5	497.1	1352.8	557.4	720.8	375.5	3861.0	7301	6222	4096
MEAN	26.5	11.7	9.11	16.0	48.3	18.0	24.0	12.1	129	236	201	137
MAX	65	17	17	39	344	44	180	72	726	784	456	374
MIN	15	7.6	6.9	6.9	7.6	5.8	3.4	2.3	3.6	48	52	54
CFSM	0.41	0.18	0.14	0.25	0.74	0.28	0.37	0.19	1.97	3.61	3.07	2.09
IN.	0.47	0.20	0.16	0.28	0.77	0.32	0.41	0.21	2.20	4.16	3.54	2.33
*PREC	---	---	---	---	4.50	0.55	0.85	4.92	9.65	18.05	---	3.98

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2002, BY WATER YEAR (WY)

	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	2001	2002			
MEAN	52.4	32.6	32.1	39.5	41.9	59.6	24.4	22.2	83.7	122	163	181																											
MAX	235	335	307	203	229	358	128	196	366	383	349	544																											
(WY)	1972	1998	1998	1998	1998	1998	1993	1991	1982	1968	1967	2001																											
MIN	3.24	2.69	4.72	5.60	6.82	2.66	0.54	0.58	2.48	12.9	17.2	8.06																											
(WY)	1975	1975	1985	1968	1974	1974	1975	1967	1988	1972	1980	1996																											

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1967 - 2002

ANNUAL TOTAL	32497.5	26436.6	
ANNUAL MEAN	89.0	72.4	71.3
HIGHEST ANNUAL MEAN			164 1998
LOWEST ANNUAL MEAN			23.0 1990
HIGHEST DAILY MEAN	4520 Sep 14	784 Jul 14	5000 Nov 14 1997
LOWEST DAILY MEAN	1.7 Jun 14	2.3 May 11	0.12 May 24 1975
ANNUAL SEVEN-DAY MINIMUM	2.5 May 26	2.7 May 9	0.18 May 21 1975
MAXIMUM PEAK FLOW		886 Jul 14	7190 Nov 14 1998
MAXIMUM PEAK STAGE		12.13 Jul 14	18.08 Nov 14 1998
ANNUAL RUNOFF (CFSM)	1.36	1.11	1.09
ANNUAL RUNOFF (INCHES)	18.51	15.06	14.84
10 PERCENT EXCEEDS	188	219	168
50 PERCENT EXCEEDS	11	17	17
90 PERCENT EXCEEDS	4.3	6.3	4.1

*PRECIPITATION, TOTAL, INCHES

MANATEE RIVER BASIN

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
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MAR 27...	1215	1.71	9.3	--	9.3	6.3	255	22.3	--	--	--	--	--
SEP 04...	1231	6.22	202	160	6.4	6.4	89	26.0	7.40	3.10	2.70	3.9	8.50

Date	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)
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MAR 27...	--	--	--	--	.40	.01	.100	<.01	.600	.60	9.3	--	.2
SEP 04...	.2	5.30	8.70	111	1.2	.02	.100	.01	.330	.36	25.0	140	.5

Date	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD (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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
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MAR 27...	--	--	--	--	--	--	--	--	--	--
SEP 04...	369	2	<1.0	<1	1.6	628	<1	<.1	<1.0	6

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

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MANATEE RIVER BASIN

0230009 MANATEE RIVER AT DEVIL'S ELBOW NEAR FT. HAMER, FL

LOCATION.--Lat 27°31'14", long 82°24'07" (1927 North American datum), in NE $\frac{1}{4}$ 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 6.0 mi downstream from the dam.
DRAINAGE AREA.--139 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--March 1997 to March 1998 (gage heights only); January 2001 to current year (gage heights only).
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Jan. 26, 2001, at datum 18.40 ft higher.
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.87 ft, Sept 14, 2001; minimum, 1.59 ft below NGVD, Mar. 5, 2002.
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.89 ft, July 13; minimum, 1.59 ft below NGVD, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	1.50	-0.23	1.88	-0.37	2.30	-0.61	2.13	-0.96	1.45	-0.78	0.87	-0.99
2	1.78	-0.23	2.30	-0.31	2.08	-0.81	1.69	-0.83	1.14	-0.62	1.91	-0.86
3	1.90	-0.21	2.42	-0.29	1.95	-0.87	2.28	-0.58	1.18	-0.61	1.89	-0.02
4	1.93	-0.14	2.25	-0.63	1.78	-1.07	0.67	-1.34	0.64	-0.58	0.70	-0.80
5	2.06	0.05	2.16	-0.45	1.63	-1.05	1.17	-0.67	1.12	-1.15	0.33	-1.59
6	2.21	0.01	1.99	-0.44	1.48	-0.93	2.20	0.15	1.97	-1.00	0.99	-1.45
7	2.48	-0.07	1.87	-0.47	1.29	-0.77	1.41	-0.30	2.04	-0.35	1.39	-1.01
8	1.64	-0.59	1.93	-0.30	1.77	-0.15	0.72	-1.37	1.35	-1.03	1.38	-0.86
9	1.37	-1.13	1.73	-0.39	1.56	-0.19	1.09	-1.25	1.56	-1.03	1.17	-0.86
10	1.63	-0.71	1.72	-0.24	1.75	-0.29	1.69	-1.12	1.56	-0.89	1.08	-1.00
11	2.15	-0.23	2.09	0.23	1.98	-0.51	1.68	-0.92	1.56	-0.98	1.38	-1.27
12	2.33	0.01	1.94	-0.10	2.03	-0.66	1.89	-0.99	1.57	-0.78	1.54	-0.78
13	2.66	0.52	1.96	-0.34	2.12	-0.72	2.11	-0.85	1.52	-0.74	1.99	-0.17
14	2.80	0.48	1.87	-0.47	2.28	-0.59	1.78	-0.75	1.26	-0.95	1.39	-0.55
15	2.12	-0.01	2.00	-0.43	2.20	-0.63	2.25	-0.67	1.17	-0.66	1.24	-0.59
16	2.09	-0.07	2.24	-0.57	1.86	-0.84	1.23	-1.02	1.31	-0.35	1.39	-0.47
17	1.88	-0.56	1.66	-1.01	1.91	-0.60	1.09	-0.96	1.20	-0.55	1.10	-0.65
18	1.54	-0.79	1.81	-0.97	2.42	-0.31	1.07	-0.79	0.67	-0.84	1.47	-0.65
19	1.66	-0.68	2.02	-0.62	1.98	-0.36	1.12	-0.72	1.43	-0.84	1.59	-0.75
20	2.27	-0.30	2.02	-0.22	1.66	-0.73	1.03	-0.59	2.11	-0.27	1.74	-0.58
21	2.16	-0.29	2.20	-0.20	1.08	-0.90	0.93	-0.16	1.74	-0.45	1.66	-0.52
22	2.13	-0.23	1.70	-0.09	1.14	-0.55	0.88	-0.68	1.47	-0.60	1.43	-0.51
23	2.25	0.20	1.49	-0.01	2.04	0.09	1.21	-0.98	1.32	-0.69	1.48	-1.16
24	2.14	0.28	1.61	0.21	1.73	0.22	1.81	-1.01	1.79	-0.88	1.73	-1.10
25	2.09	0.12	1.55	0.04	1.58	-0.30	1.61	-0.77	1.93	-0.92	1.78	-0.73
26	1.72	-0.55	1.50	-0.04	1.42	-0.54	1.64	-1.00	2.17	-0.59	1.78	-0.70
27	0.83	-0.50	1.83	-0.38	2.12	-0.96	1.75	-1.08	2.45	-0.13	1.77	-0.63
28	0.93	-0.63	1.96	-0.50	2.46	-0.51	1.89	-0.99	1.40	-0.70	1.61	-0.61
29	0.97	-0.49	2.07	-0.35	2.58	-0.10	2.00	-0.89	---	---	1.40	-0.60
30	1.34	-0.62	2.13	-0.51	2.31	-0.61	1.83	-0.91	---	---	1.75	-0.48
31	1.53	-0.38	---	---	2.09	-0.76	1.70	-0.83	---	---	2.04	-0.46
MONTH	2.80	-1.13	2.42	-1.01	2.58	-1.07	2.28	-1.37	2.45	-1.15	2.04	-1.59

MANATEE RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1997 to March 1998; January 2001 to current year.

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 32,600 microsiemens, June 7, 8, 2002; bottom sensor maximum, 32,800 microsiemens, June 7, 8, 2002; top sensor minimum, 77 microsiemens, Jan. 23, 1998; bottom sensor minimum, 70 microsiemens, Sept. 16, 2001.

TEMPERATURE.--Top sensor maximum, 33.8°C, June 13, 2001; bottom sensor maximum, 33.3°C, June 19, 1997; top sensor minimum, 11.9°C, Jan. 9, 2002; bottom sensor minimum, 12.3°C, Jan. 9, 2002.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 32,600 microsiemens, June 7, 8; bottom sensor maximum, 32,800 microsiemens, June 7, 8; top sensor minimum, 146 microsiemens, Aug. 20; bottom sensor minimum, 154 microsiemens, Aug. 30.

TEMPERATURE.--Top sensor maximum, 33.1°C, July 30; bottom sensor maximum, 32.6°C, July 29, 30; top sensor minimum, 11.9°C, Jan. 9; bottom sensor minimum, 12.3°C, Jan. 9.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(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	405	238	7560	714	20400	3470	24600	7630	18000	6180	1030	527
2	488	292	10400	923	20000	3170	22700	7990	15800	6670	2180	569
3	576	316	11300	1020	19600	3000	25000	8760	15600	6500	3470	539
4	689	320	11100	856	19000	2780	15300	4950	12800	6830	1280	315
5	872	353	11500	1190	19000	3250	19400	6560	16000	4200	1180	367
6	1140	370	10900	1140	19100	4620	25400	10300	21600	4780	2040	782
7	1830	389	11200	1080	18400	5760	19600	8270	21500	8300	5750	996
8	1130	397	12600	1610	21600	8810	14800	4720	16700	4600	7600	1100
9	1070	411	12100	1640	19300	8490	18000	4510	16900	4860	7720	1220
10	1770	465	12200	2440	19800	8170	22300	5430	17300	5500	7720	1190
11	3740	599	14500	3890	20800	6760	22500	7030	17400	5090	10400	1130
12	5040	659	13200	2110	21500	6080	22700	6640	17200	5950	11600	1870
13	7770	1110	13800	1550	22300	5900	24000	7250	16600	5860	14200	3640
14	8400	1120	13400	1420	23200	6680	21700	7640	14900	4920	10600	2420
15	6010	795	14600	1710	22800	6460	23400	5410	14800	5750	9190	2560
16	7160	808	15700	1630	21500	5830	15200	4420	15600	7070	10100	3110
17	6420	644	13000	1260	22600	7260	13500	4320	14800	6400	8780	3000
18	5440	578	14000	1260	24400	8530	12800	4910	12000	5040	12300	2750
19	6210	618	15800	2170	22300	8350	14000	4940	17500	5200	13600	2640
20	9140	826	16500	3610	20800	6720	12900	5240	21300	7610	14400	3060
21	8940	621	17600	3910	17500	6030	13000	6300	18900	7120	14300	3440
22	4550	413	14700	4160	18800	7190	12800	4830	14700	6370	13200	3430
23	5750	585	15000	5410	24200	10100	16000	3810	11400	2580	13700	2340
24	5480	651	15100	5800	23300	13100	20000	3940	8350	1010	17400	2760
25	6270	591	15100	4750	20300	9200	19000	5260	4190	1060	17300	4490
26	4610	468	14900	4690	20100	8800	17700	4510	4230	1480	17600	5240
27	1840	468	16800	3330	22900	6340	18400	4390	5370	342	16900	5420
28	1890	500	17500	2810	24100	8500	19600	4820	683	315	15400	5520
29	2360	596	18700	3630	25300	11100	20400	5400	---	---	15000	5900
30	3700	550	19300	3210	24200	8790	19600	5520	---	---	18000	6640
31	5260	644	---	---	23800	8330	19500	5900	---	---	20000	6720
MONTH	9140	238	19300	714	25300	2780	25400	3810	21600	315	20000	315

MANATEE RIVER BASIN

023000095 MANATEE RIVER AT RYE, FL

LOCATION.--Lat 27°30'48", long 82°22'02" (1927 North American datum), in SW¹/₄ sec.13, T.34 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on downstream side of bridge on Rye Road, 0.5 mi east of Rye, 1.0 mi downstream from Manatee Dam, 2.0 mi north of State Highway 64, and 22 mi upstream from mouth.
DRAINAGE AREA.--137 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--September 2000 to current year. Records of gage heights prior to October 2000 are available in files of the Geological Survey.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.97 ft, Sept. 14, 2001 (from floodmark); minimum, 1.60 ft below NGVD, Oct. 9, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.42 ft, July 13; minimum, 1.17 ft below NGVD, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	1.43	-0.23	1.80	-0.38	2.23	-0.53	2.06	-0.77	1.38	-0.68	0.79	-0.83
2	1.74	-0.21	2.23	-0.32	2.02	-0.67	1.60	-0.68	1.07	-0.58	1.87	-0.81
3	1.84	-0.16	2.35	-0.28	1.89	-0.69	2.20	-0.55	1.11	-0.60	1.86	-0.05
4	1.88	-0.10	2.20	-0.54	1.71	-0.82	0.59	-0.97	0.59	-0.57	1.02	-0.47
5	2.02	0.02	2.09	-0.40	1.56	-0.82	1.06	-0.69	1.03	-0.99	0.26	-1.17
6	2.17	0.04	1.93	-0.41	1.42	-0.78	2.13	0.04	1.89	-0.88	0.90	-1.14
7	2.43	-0.05	1.81	-0.44	1.22	-0.70	1.34	-0.33	2.00	-0.38	1.33	-0.93
8	1.58	-0.46	1.86	-0.32	1.71	-0.19	0.63	-1.02	1.28	-0.86	1.31	-0.80
9	1.31	-0.74	1.67	-0.38	1.50	-0.24	1.01	-0.94	1.47	-0.88	1.11	-0.79
10	1.58	-0.60	1.59	-0.27	1.69	-0.31	1.61	-0.91	1.49	-0.78	1.06	-0.87
11	2.10	-0.25	2.03	0.18	1.92	-0.48	1.61	-0.78	1.49	-0.84	1.22	-1.06
12	2.27	-0.02	1.89	-0.12	1.94	-0.58	1.71	-0.81	1.48	-0.70	1.34	-0.72
13	2.60	0.45	1.91	-0.30	1.98	-0.63	2.04	-0.72	1.44	-0.68	1.94	-0.20
14	2.77	0.44	1.80	-0.42	2.21	-0.52	1.69	-0.66	1.17	-0.82	1.32	-0.53
15	2.07	-0.05	1.95	-0.40	2.14	-0.54	2.20	-0.56	1.07	-0.66	1.16	-0.59
16	2.04	-0.07	2.18	-0.49	1.80	-0.72	1.17	-0.84	1.22	-0.39	1.33	-0.45
17	1.83	-0.46	1.58	-0.78	1.85	-0.55	1.02	-0.83	1.11	-0.55	1.02	-0.50
18	1.47	-0.63	1.74	-0.75	2.35	-0.28	1.01	-0.73	0.57	-0.83	1.42	-0.62
19	1.60	-0.56	1.95	-0.57	1.93	-0.36	1.05	-0.70	1.33	-0.83	1.54	-0.69
20	2.20	-0.28	1.95	-0.24	1.58	-0.68	0.96	-0.61	2.04	-0.33	1.70	-0.56
21	2.11	-0.29	2.12	-0.24	1.02	-0.84	0.88	-0.22	1.66	-0.46	1.59	-0.53
22	2.09	-0.25	1.62	-0.16	1.05	-0.58	0.81	-0.68	1.41	-0.61	1.37	-0.54
23	2.18	0.13	1.43	-0.09	1.97	0.01	1.16	-0.86	1.28	-0.55	1.44	-0.99
24	2.08	0.21	1.53	0.11	1.70	0.16	1.75	-0.85	1.75	-0.73	1.67	-0.97
25	2.06	0.04	1.52	-0.04	1.50	-0.34	1.61	-0.68	1.77	-0.77	1.68	-0.69
26	1.68	-0.52	1.46	-0.10	1.43	-0.53	1.54	-0.84	2.14	-0.51	1.72	-0.66
27	0.76	-0.54	1.75	-0.36	2.02	-0.81	1.59	-0.86	2.43	0.22	1.72	-0.57
28	0.75	-0.60	1.86	-0.44	2.32	-0.48	1.84	-0.80	1.62	-0.59	1.54	-0.57
29	0.89	-0.51	1.99	-0.33	2.48	-0.12	1.95	-0.74	---	---	1.32	-0.57
30	1.16	-0.57	2.07	-0.44	2.24	-0.53	1.76	-0.77	---	---	1.69	-0.50
31	1.46	-0.40	---	---	2.02	-0.66	1.63	-0.72	---	---	1.99	-0.45
MONTH	2.77	-0.74	2.35	-0.78	2.48	-0.84	2.20	-1.02	2.43	-0.99	1.99	-1.17

MANATEE RIVER BASIN

023000095 MANATEE RIVER AT RYE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to current year.

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 8,220 microsiemens, May 31, 2002; bottom sensor maximum, 7,970 microsiemens, May 31, 2002; top sensor minimum, 71 microsiemens, Sept. 21-23, 2001; bottom sensor minimum, 72 microsiemens, Sept. 14, 22, 23, 28, 2001.

TEMPERATURE.--Top sensor maximum, 32.0°C, June 17, 2001; bottom sensor maximum, 32.0°C, June 17, 2001; top sensor minimum, 9.7°C, Jan. 5, 2001; bottom sensor minimum, 9.6°C, Jan. 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 8,220 microsiemens, May 31; bottom sensor maximum, 7,970 microsiemens, May 31; top sensor minimum, 130 microsiemens, Oct. 1; bottom sensor minimum, 137 microsiemens, Aug. 20.

TEMPERATURE.--Top sensor maximum, 31.7°C, July 28; bottom sensor maximum, 31.2°C, Aug. 16; top sensor minimum, 11.4°C, Jan. 10; bottom sensor minimum, 11.4°C, Jan. 10.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR THE TOP)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	142	130	295	270	463	288	2550	248	588	241	316	263
2	200	140	306	275	456	280	1960	248	425	241	309	239
3	228	186	318	283	446	303	2540	282	426	243	267	245
4	250	213	324	293	423	309	354	261	291	247	263	237
5	251	221	341	271	408	322	680	263	329	254	355	252
6	278	229	324	263	399	295	1410	301	699	271	340	260
7	286	220	330	269	381	276	807	272	1010	288	348	259
8	267	183	341	278	432	318	423	235	554	280	354	246
9	238	189	330	271	417	344	407	220	618	268	326	237
10	277	214	332	280	464	322	721	232	677	259	326	234
11	344	248	344	305	565	303	775	228	651	245	311	228
12	313	250	337	303	653	239	1100	219	599	240	346	235
13	333	267	354	281	744	233	1540	225	549	236	410	264
14	346	263	348	274	981	238	1560	231	380	229	317	255
15	309	211	349	275	1090	256	1590	239	336	227	311	246
16	311	230	361	261	829	247	399	236	413	226	331	247
17	280	232	327	262	940	240	321	229	337	241	313	275
18	268	246	346	286	1580	263	320	224	258	230	375	268
19	309	256	388	258	1280	242	343	217	426	231	392	261
20	343	263	381	276	934	225	334	213	803	236	447	290
21	341	212	403	288	490	215	303	212	794	253	473	288
22	318	238	356	283	418	225	286	212	379	245	391	275
23	294	196	350	263	887	258	364	211	361	255	423	268
24	266	168	343	272	940	266	575	222	359	227	545	292
25	235	169	340	303	913	237	563	234	361	200	531	300
26	249	178	341	286	893	225	496	235	384	214	560	285
27	228	213	367	294	1140	230	526	233	437	219	558	312
28	233	216	379	323	2170	260	770	237	271	244	527	298
29	239	224	397	322	2560	287	893	239	---	---	506	288
30	261	230	410	301	2790	265	855	244	---	---	660	287
31	295	245	---	---	2510	259	805	245	---	---	952	306
MONTH	346	130	410	258	2790	215	2550	211	1010	200	952	228

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MANATEE RIVER BASIN

02300018 GAMBLE CREEK NEAR PARRISH, FL

LOCATION.--Lat 27°33'11", long 82°23'23" (1927 North American datum), in NE¼ sec.3, T.34 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on downstream side of bridge on Golf Course Road, 0.2 mi downstream from Frye Canal, 3.0 mi southeast of Parrish, and 5.7 mi above mouth.

DRAINAGE AREA.--50.6 mi².

PERIOD OF RECORD.--February 1962 to September 1993 (gage height and discharge measurements only); October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7.52 ft below National Geodetic Vertical Datum of 1929 (Manatee County bench mark).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	18	4.4	2.7	24	52	8.8	15	3.8	47	0.52	395
2	41	15	5.7	4.6	26	44	6.1	20	2.0	48	23	250
3	34	16	5.4	11	29	37	18	16	2.0	52	70	149
4	29	12	4.2	14	22	38	21	15	1.9	34	138	134
5	22	9.8	6.0	12	21	40	14	15	1.7	30	84	113
6	22	8.9	9.1	13	21	37	8.0	16	1.8	36	40	162
7	21	11	12	10	31	32	9.9	17	3.9	23	66	155
8	16	16	19	8.3	39	30	12	12	11	15	148	128
9	12	19	25	12	32	23	11	11	29	75	77	80
10	11	14	19	15	22	22	13	8.1	7.3	81	61	97
11	15	12	13	16	21	17	18	7.6	2.2	44	44	181
12	12	9.5	12	18	20	20	16	8.2	0.78	121	21	246
13	10	8.1	9.4	19	16	36	24	7.6	2.5	310	9.6	274
14	10	8.9	9.3	19	18	36	24	9.7	24	378	38	265
15	6.9	10	8.6	39	21	26	14	7.5	20	319	265	471
16	5.0	12	8.4	46	23	23	13	5.6	15	225	188	337
17	4.8	10	7.7	30	25	18	17	17	6.9	113	153	223
18	7.6	9.0	9.9	23	21	14	23	6.2	68	60	121	127
19	9.5	8.0	7.1	18	23	13	21	30	73	55	139	84
20	7.1	10	5.2	14	24	13	14	57	e20	110	143	79
21	6.9	12	2.9	14	22	13	17	28	e32	45	141	80
22	32	11	2.1	13	46	18	20	14	104	62	92	63
23	37	11	3.1	13	122	21	21	9.0	83	98	55	46
24	28	7.4	4.4	15	151	23	22	5.8	59	42	35	38
25	24	5.8	7.1	21	149	20	14	7.3	166	26	30	63
26	28	6.4	9.6	21	112	29	15	7.0	178	35	23	56
27	27	8.7	9.6	23	72	26	15	6.6	177	31	46	48
28	24	6.1	6.6	23	58	18	18	5.3	128	12	286	43
29	18	5.1	6.3	18	---	14	18	2.1	83	4.7	301	36
30	14	3.9	7.1	22	---	20	16	1.7	74	9.6	297	34
31	15	---	3.8	27	---	14	---	3.5	---	4.8	496	---
TOTAL	606.8	314.6	263.0	554.6	1211	787	481.8	391.8	1380.78	2546.1	3631.12	4457
MEAN	19.6	10.5	8.48	17.9	43.2	25.4	16.1	12.6	46.0	82.1	117	149
MAX	57	19	25	46	151	52	24	57	178	378	496	471
MIN	4.8	3.9	2.1	2.7	16	13	6.1	1.7	0.78	4.7	0.52	34
CFSM	0.39	0.21	0.17	0.35	0.85	0.50	0.32	0.25	0.91	1.62	2.31	2.94
IN.	0.45	0.23	0.19	0.41	0.89	0.58	0.35	0.29	1.02	1.87	2.67	3.28

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	17.5	10.3	6.97	12.5	30.5	35.3	33.7	9.64	34.9	168	126	387
MAX	19.6	10.5	8.48	17.9	43.2	45.2	51.4	12.6	46.0	254	135	625
(WY)	2002	2002	2002	2002	2002	2001	2001	2002	2002	2001	2001	2001
MIN	15.5	10.0	5.46	7.07	17.7	25.4	16.1	6.65	23.9	82.1	117	149
(WY)	2001	2001	2001	2001	2001	2002	2002	2001	2001	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	36596.07	16625.60		
ANNUAL MEAN	100	45.5		72.6
HIGHEST ANNUAL MEAN				99.6
LOWEST ANNUAL MEAN				45.5
HIGHEST DAILY MEAN	5430	Sep 15	496	Aug 31
LOWEST DAILY MEAN	0.00	Many Days	0.52	Aug 1
ANNUAL SEVEN-DAY MINIMUM	0.25	Jun 14	2.4	May 30
MAXIMUM PEAK FLOW			540	Aug 31
MAXIMUM PEAK STAGE			10.66	Aug 31
ANNUAL RUNOFF (CFSM)	1.98		0.90	
ANNUAL RUNOFF (INCHES)	26.90		12.22	19.49
10 PERCENT EXCEEDS	210		127	163
50 PERCENT EXCEEDS	16		20	17
90 PERCENT EXCEEDS	5.0		5.9	5.0

MANATEE RIVER BASIN

02300021 MANATEE RIVER AT FORT HAMER, FL

LOCATION.--Lat 27°31'05", long 82°25'42" (1927 North American datum), in SW¹/₄ 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); January 2001 to current year (gage heights only).
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.84 ft, Sept. 14, 2001; minimum, 1.72 ft below NGVD, Mar. 5, 2002.
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.20 ft, Sept. 5; minimum, 1.72 ft below NGVD, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.56	-0.22	2.08	-0.39	2.35	-0.69	2.11	-1.15	1.50	-0.86	0.91	-1.07
2	1.83	-0.22	2.37	-0.36	2.12	-0.94	1.68	-1.06	1.19	-0.66	1.97	-0.70
3	1.97	-0.23	2.50	-0.34	1.99	-1.00	2.25	-0.68	1.23	-0.62	1.94	0.02
4	1.99	-0.19	2.34	-0.68	1.82	-1.20	0.66	-1.50	0.68	-0.59	0.68	-1.10
5	2.13	0.04	2.26	-0.48	1.67	-1.12	1.14	-0.73	1.17	-1.16	0.38	-1.72
6	2.28	-0.01	2.08	-0.45	1.53	-0.99	2.18	0.13	2.03	-1.04	1.05	-1.49
7	2.55	-0.11	1.95	-0.46	1.34	-0.79	1.38	-0.38	2.06	-0.36	1.44	-1.03
8	1.72	-0.59	2.00	-0.27	1.82	-0.10	0.70	-1.51	1.41	-1.11	1.44	-0.90
9	1.45	-1.21	1.80	-0.37	1.60	-0.15	1.05	-1.39	1.60	-1.10	1.23	-0.88
10	1.72	-0.72	1.81	-0.19	1.78	-0.27	1.65	-1.28	1.59	-0.97	1.04	-1.06
11	2.23	-0.22	2.16	0.30	2.00	-0.56	1.63	-1.08	1.61	-1.05	1.47	-1.33
12	2.42	0.05	2.02	-0.08	2.05	-0.75	1.96	-1.16	1.62	-0.85	1.76	-0.81
13	2.75	0.58	2.05	-0.37	2.23	-0.83	2.07	-1.05	1.57	-0.78	2.05	-0.15
14	2.88	0.50	1.99	-0.51	2.30	-0.70	1.90	-0.90	1.32	-1.01	1.46	-0.57
15	2.19	0.03	2.10	-0.45	2.21	-0.76	2.20	-0.81	1.21	-0.66	1.32	-0.60
16	2.17	-0.07	2.31	-0.63	1.87	-0.95	1.21	-1.10	1.36	-0.34	1.45	-0.48
17	1.97	-0.64	1.74	-1.10	1.92	-0.68	1.17	-0.99	1.24	-0.57	1.18	-0.67
18	1.62	-0.87	1.88	-1.05	2.42	-0.38	1.13	-0.80	0.73	-0.87	1.52	-0.69
19	1.74	-0.71	2.09	-0.62	1.99	-0.41	1.18	-0.72	1.48	-0.84	1.64	-0.77
20	2.37	-0.34	2.10	-0.20	1.67	-0.80	1.10	-0.54	2.15	-0.23	1.79	-0.57
21	2.24	-0.29	2.28	-0.14	1.09	-0.91	0.99	-0.10	1.77	-0.44	1.71	-0.49
22	2.20	-0.19	1.78	0.00	1.15	-0.55	0.94	-0.63	1.53	-0.58	1.48	-0.47
23	2.34	0.27	1.56	0.06	2.03	0.11	1.27	-1.00	1.35	-0.77	1.54	-1.22
24	2.23	0.38	1.69	0.31	1.66	0.19	1.85	-1.05	1.83	-0.99	1.79	-1.14
25	2.18	0.22	1.58	0.13	1.58	-0.31	1.55	-0.83	2.10	-1.05	1.83	-0.77
26	1.75	-0.53	1.52	0.04	1.32	-0.59	1.68	-1.08	2.22	-0.70	1.82	-0.75
27	0.90	-0.44	1.89	-0.37	2.09	-1.08	1.87	-1.22	2.52	-0.48	1.82	-0.68
28	1.05	-0.61	2.08	-0.54	2.50	-0.64	1.92	-1.14	1.38	-0.95	1.66	-0.66
29	1.07	-0.45	2.17	-0.38	2.58	-0.17	2.04	-1.03	---	---	1.45	-0.65
30	1.52	-0.62	2.24	-0.59	2.28	-0.78	1.86	-0.87	---	---	1.81	-0.52
31	1.76	-0.37	---	---	2.07	-0.92	1.75	-0.93	---	---	2.09	-0.43
MONTH	2.88	-1.21	2.50	-1.10	2.58	-1.20	2.25	-1.51	2.52	-1.16	2.09	-1.72

MANATEE RIVER BASIN

02300021 MANATEE RIVER AT FORT HAMER, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1997 to September 1998; January 2001 to current year.

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

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 40,600 microsiemens, May 17, 2002; bottom sensor maximum, 42,400 microsiemens, May 30, 2002; top sensor minimum, 87 microsiemens, Jan. 23, 1998; bottom sensor minimum, 87 microsiemens, Jan. 23, 1998.

TEMPERATURE.--Top sensor maximum, 35.0°C, June 18, 1998; bottom sensor maximum, 34.9°C, July 2, 1998; top sensor minimum, 11.1°C, Jan. 5, 2002; bottom sensor minimum, 12.1°C, Jan. 9, 2002.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 40,600 microsiemens, May 17; bottom sensor maximum, 42,400 microsiemens, May 30; top sensor minimum, 204 microsiemens, Aug. 28; bottom sensor minimum, 203 microsiemens, July 14.

TEMPERATURE.--Top sensor maximum, 32.7°C, July 18; bottom sensor maximum, 32.1°C, July 28; top sensor minimum, 11.1°C, Jan. 5; bottom sensor minimum, 12.1°C, Jan. 9.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(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	531	369	14000	7340	31200	16200	32800	18800	30100	13200	6430	1290
2	2360	452	15500	8290	30700	15600	31400	18900	27700	15800	17700	1710
3	4840	524	19000	8940	30800	15800	32800	20000	27900	14500	18700	3520
4	6140	677	18700	8160	30200	14900	25400	14400	25300	13700	10700	1400
5	7590	993	19800	9450	29900	15900	28000	17200	27700	9170	6400	1100
6	9290	1310	19000	8950	29700	16300	31700	21500	33900	12000	16900	1480
7	11900	1550	18400	9080	28600	17400	27600	18100	33000	17400	20400	2250
8	7520	1230	19000	10600	30300	20800	25000	12700	29100	11000	20600	3620
9	6960	1060	19400	10700	29000	20000	26800	12400	30100	9860	20100	4840
10	11600	1610	18300	11700	29500	17500	29400	12300	30100	12900	16600	5480
11	15100	3390	19900	14000	31200	15900	29100	14300	29600	13100	23600	5040
12	15900	4710	19600	12700	32200	16600	30100	14000	30500	13700	24400	8790
13	18100	7500	19000	12400	32800	17100	31200	14700	29700	14700	27900	11300
14	19900	8150	18900	11900	32800	18900	29600	14700	28100	13500	23700	7820
15	16600	6700	19400	12300	32800	18300	30700	13400	27800	15000	22200	8860
16	18200	6090	22900	12000	32000	16900	24200	8060	28200	16600	23400	9100
17	16700	5690	24800	10500	32800	19000	25900	8280	27700	15500	20600	9360
18	14700	4790	26200	10500	32800	20700	26100	11700	24400	14200	25500	9390
19	16300	5450	27500	13000	32800	19800	25800	12600	30000	13700	26400	9700
20	20200	6900	27500	14800	31300	18000	25700	13700	33400	15700	28300	10700
21	19400	7170	28200	14500	28800	17600	25700	16900	31500	16500	27400	11100
22	15700	3270	26400	14800	29700	20500	25500	12400	30500	13700	25000	11200
23	18200	4930	26200	17200	32500	22800	27700	11100	22800	6740	27400	8890
24	17600	5770	25700	17700	31200	24100	31400	11900	19500	2870	29700	8840
25	16500	5800	25100	17600	30000	20400	29300	14400	20300	2760	29700	11500
26	14000	3480	24600	17200	28700	19300	30600	11700	22800	2500	29700	12700
27	9500	4070	26700	15700	32800	16600	31900	12400	25400	2390	30300	12400
28	8200	4010	28300	15700	32800	19500	33000	12200	7890	1070	29500	13300
29	8660	4480	28900	16300	32800	21700	33500	14400	---	---	27800	14300
30	10100	4780	29900	15900	32800	19800	32600	15500	---	---	29500	14300
31	11800	6080	---	---	32800	18800	30700	15800	---	---	32100	16200
MONTH	20200	369	29900	7340	32800	14900	33500	8060	33900	1070	32100	1100

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MANATEE RIVER BASIN

02300029 BRADEN RIVER AT LORRAINE, FL

LOCATION.--Lat 27°25'05", long 82°23'55" (1927 North American datum), in SW¹/₄ sec.22, T.35 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on north bank, 100 ft upstream from old wooden bridge on Lorraine Road, 1 mi south of Lorraine, 1 mi south of State Highway 70, and 16.5 mi upstream from mouth.

DRAINAGE AREA.--20.1 mi².

PERIOD OF RECORD.--March to September 2002 (gage heights only).

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

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 27.72 ft, Aug. 28; minimum, 19.99 ft, June 6, 7.

GAGE HEIGHT, FEET, PERIOD MARCH TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	21.25	20.99	20.15	---	23.66	26.49
2	---	---	---	---	---	---	21.24	20.96	20.12	---	23.50	25.69
3	---	---	---	---	---	---	21.29	20.94	20.10	---	23.59	26.71
4	---	---	---	---	---	---	21.42	20.90	20.07	---	24.53	26.00
5	---	---	---	---	---	---	21.44	20.87	20.05	---	25.90	25.37
6	---	---	---	---	---	---	21.38	20.87	20.04	---	25.22	25.61
7	---	---	---	---	---	---	21.33	20.84	20.01	---	24.47	25.18
8	---	---	---	---	---	---	21.30	20.81	20.33	---	24.21	24.52
9	---	---	---	---	---	---	21.29	20.77	21.82	---	23.76	23.90
10	---	---	---	---	---	---	21.27	20.72	22.49	---	23.25	23.63
11	---	---	---	---	---	---	21.27	20.67	22.07	---	22.89	24.21
12	---	---	---	---	---	---	21.26	20.61	21.69	---	22.66	25.44
13	---	---	---	---	---	---	21.27	20.57	21.44	---	22.70	25.93
14	---	---	---	---	---	---	21.25	20.52	21.32	---	23.47	25.16
15	---	---	---	---	---	---	21.37	20.47	21.35	---	25.86	25.30
16	---	---	---	---	---	---	21.35	20.45	21.32	---	25.79	25.26
17	---	---	---	---	---	---	21.28	20.45	21.34	---	24.82	24.43
18	---	---	---	---	---	---	21.32	20.40	22.26	---	24.46	23.85
19	---	---	---	---	---	---	21.27	20.48	23.23	---	24.14	23.46
20	---	---	---	---	---	---	21.24	20.51	22.84	---	24.24	23.20
21	---	---	---	---	---	---	21.23	20.47	22.74	---	24.94	23.11
22	---	---	---	---	---	---	21.20	20.42	24.71	---	25.07	23.05
23	---	---	---	---	---	---	21.18	20.38	23.69	---	24.68	22.99
24	---	---	---	---	---	---	21.16	20.34	22.92	---	23.88	22.94
25	---	---	---	---	---	---	21.13	20.32	---	---	23.41	22.94
26	---	---	---	---	---	21.34	21.11	20.28	---	---	23.65	23.04
27	---	---	---	---	---	21.34	21.10	20.27	---	23.56	25.02	23.03
28	---	---	---	---	---	21.31	21.07	20.26	---	23.50	27.48	22.90
29	---	---	---	---	---	21.28	21.05	20.23	---	23.52	26.62	22.71
30	---	---	---	---	---	21.24	21.03	20.20	---	25.58	25.73	22.66
31	---	---	---	---	---	21.22	---	20.17	---	24.34	26.74	---
MEAN	---	---	---	---	---	21.29	21.25	20.55	21.59	24.10	24.53	24.29
MAX	---	---	---	---	---	21.34	21.44	20.99	24.71	25.58	27.48	26.71
MIN	---	---	---	---	---	21.22	21.03	20.17	20.01	23.50	22.66	22.66

MANATEE RIVER BASIN

02300032 BRADEN RIVER NEAR LORRAINE, FL

LOCATION.--Lat 27°25'20", long 82°25'00" (1927 North American datum), in SE¹/₄ 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 and tipping bucket raingage recorders. Datum of gage is 3.79 ft below National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	e5.4	1.1	1.3	1.3	13	0.74	0.37	0.39	55	e110	244
2	19	e5.0	1.1	1.5	1.2	11	0.67	0.37	0.39	68	e50	140
3	15	e4.5	1.0	1.9	1.2	8.8	0.64	0.37	0.36	167	e23	241
4	12	e4.2	1.0	1.8	1.1	8.1	0.67	0.38	0.36	164	e21	188
5	11	e3.9	0.99	1.6	1.0	7.2	0.68	0.39	0.35	112	e155	136
6	9.6	e3.7	0.95	1.5	1.0	6.1	0.59	0.41	0.33	56	86	148
7	9.2	e3.5	0.94	1.5	1.4	5.5	0.50	0.42	0.32	34	53	111
8	9.3	e3.3	0.97	1.4	2.2	5.6	0.46	0.44	8.6	23	50	76
9	8.8	e3.1	1.1	1.3	2.2	5.2	0.43	0.44	12	21	36	52
10	8.6	e3.0	1.0	1.2	1.9	4.9	0.42	0.42	7.4	37	23	44
11	8.6	e2.8	1.0	1.0	1.9	4.4	0.41	0.40	3.7	51	16	60
12	8.6	e2.7	0.99	1.0	2.2	3.9	0.42	0.36	1.6	378	12	119
13	8.5	e2.6	0.91	1.1	2.2	3.5	0.45	0.36	0.93	634	14	161
14	8.6	e2.5	0.86	1.2	2.0	3.2	0.42	0.37	0.70	697	34	101
15	8.5	e2.4	0.82	7.5	2.0	2.9	0.46	0.38	0.66	241	145	95
16	8.6	e2.3	0.76	10	1.8	2.6	0.54	0.39	0.80	117	134	95
17	8.6	e2.2	0.73	7.7	1.7	2.3	0.49	0.44	0.74	71	71	61
18	8.6	e2.1	0.86	5.4	1.7	2.1	0.54	0.42	5.5	53	66	44
19	8.6	e2.0	0.89	4.4	1.6	2.3	0.44	0.60	19	50	49	33
20	8.6	e1.9	0.85	3.5	1.5	2.3	0.35	0.44	13	40	49	26
21	9.5	1.8	0.83	2.9	1.4	2.3	0.32	0.31	30	31	89	24
22	17	1.7	0.76	2.5	19	1.9	0.32	0.28	81	24	101	21
23	23	1.6	0.68	2.2	132	1.3	0.32	0.27	40	21	71	21
24	16	1.6	0.64	1.9	122	1.2	0.33	0.39	21	16	43	19
25	9.5	1.5	0.65	1.8	66	1.2	0.34	0.36	38	13	31	18
26	16	1.3	0.94	1.6	38	1.0	0.31	0.36	118	16	39	20
27	18	1.3	1.0	1.5	25	0.96	0.30	0.37	133	49	133	21
28	13	1.3	1.0	1.5	17	0.86	0.29	0.40	86	35	553	17
29	9.1	1.2	1.1	1.5	---	0.81	0.30	0.37	77	e24	282	13
30	6.8	1.2	1.1	1.5	---	0.77	0.35	0.39	49	e17	194	13
31	6.2	---	1.2	1.3	---	0.85	---	0.39	---	e60	313	---
TOTAL	355.4	77.6	28.72	78.0	453.5	118.05	13.50	12.06	750.13	3375	3046	2362
MEAN	11.5	2.59	0.93	2.52	16.2	3.81	0.45	0.39	25.0	109	98.3	78.7
MAX	23	5.4	1.2	10	132	13	0.74	0.60	133	697	553	244
MIN	6.2	1.2	0.64	1.0	1.0	0.77	0.29	0.27	0.32	13	12	13
CFSM	0.44	0.10	0.04	0.10	0.63	0.15	0.02	0.02	0.97	4.22	3.81	3.05
IN.	0.51	0.11	0.04	0.11	0.65	0.17	0.02	0.02	1.08	4.87	4.39	3.41
*PREC	2.36	0.15	0.79	1.93	0.59	0.36	1.40	3.06	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	25.1	22.5	15.8	17.5	16.2	21.2	15.1	13.9	44.9	83.3	73.0	75.3		
MAX	114	208	172	90.1	100	160	61.6	154	264	255	164	161		
(WY)	1991	1998	1998	1998	1998	1998	1993	1991	1992	2001	1995	2001		
MIN	4.50	0.79	0.93	0.54	0.37	0.35	0.25	0.16	0.28	7.72	10.3	4.43		
(WY)	2001	1997	2002	1997	1997	1997	1999	2000	2000	2000	1996	1996		

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1989 - 2002

ANNUAL TOTAL	16905.19	10669.96		
ANNUAL MEAN	46.3	29.2	35.4	1998
HIGHEST ANNUAL MEAN			74.0	2000
LOWEST ANNUAL MEAN			12.0	2000
HIGHEST DAILY MEAN	1530	Sep 14	697	Jul 14
LOWEST DAILY MEAN	0.14	May 20	0.27	May 23
ANNUAL SEVEN-DAY MINIMUM	0.15	May 16	0.31	Apr 23
MAXIMUM PEAK FLOW			982	Jul 14
MAXIMUM PEAK STAGE			22.56	Jul 14
ANNUAL RUNOFF (CFSM)	1.80	1.13	1.37	
ANNUAL RUNOFF (INCHES)	24.37	15.38	18.66	
10 PERCENT EXCEEDS	103	86	81	
50 PERCENT EXCEEDS	2.1	2.6	5.8	
90 PERCENT EXCEEDS	0.22	0.39	0.65	

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MANATEE RIVER BASIN

023000358 BRADEN RIVER AT LINGER LODGE NEAR BRADENTON, FL

LOCATION.--Lat 27°24'45", long 82°26'56" (1927 North American datum), in NE $\frac{1}{4}$ sec.25, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on north bank at Linger Lodge RV park, 0.5 mi east of I-75, 4.5 miles upstream of Ward Lake weir station, and 15.5 mi southeast of Bradenton.

DRAINAGE AREA.--45.3 mi².

PERIOD OF RECORD.--March to September 2002 (gage heights only).

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

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 6.40 ft, July 14; minimum, 0.32 ft, June 5.

GAGE HEIGHT, FEET, PERIOD MARCH TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3.21	2.04	0.57	4.26	3.95	4.77
2	---	---	---	---	---	---	3.17	1.99	0.53	4.16	3.96	4.34
3	---	---	---	---	---	---	3.14	1.92	0.46	4.29	4.01	4.45
4	---	---	---	---	---	---	3.11	1.88	0.39	4.38	4.00	4.46
5	---	---	---	---	---	---	3.07	1.83	0.36	4.25	4.08	4.39
6	---	---	---	---	---	---	3.01	1.77	0.43	4.02	4.07	4.45
7	---	---	---	---	---	---	2.96	1.71	0.40	3.96	3.94	4.33
8	---	---	---	---	---	---	2.90	1.66	0.48	3.91	3.94	4.11
9	---	---	---	---	---	---	2.84	1.59	0.80	3.88	3.88	4.03
10	---	---	---	---	---	---	2.79	1.53	0.78	3.95	3.85	4.01
11	---	---	---	---	---	---	2.75	1.47	0.79	4.05	3.83	4.09
12	---	---	---	---	---	---	2.71	1.42	0.76	5.10	3.82	4.29
13	---	---	---	---	---	---	2.72	1.36	0.75	6.07	3.84	4.41
14	---	---	---	---	---	---	2.71	1.30	0.76	6.04	4.08	4.16
15	---	---	---	---	---	---	2.73	1.21	0.76	4.79	4.51	4.07
16	---	---	---	---	---	---	2.69	1.15	0.77	4.25	4.27	4.06
17	---	---	---	---	---	---	2.65	1.14	0.75	4.07	4.05	3.99
18	---	---	---	---	---	---	2.67	1.10	0.95	4.03	4.08	3.95
19	---	---	---	---	---	---	2.65	1.15	1.32	4.03	3.99	3.93
20	---	---	---	---	---	---	2.62	1.16	1.46	3.98	4.05	3.92
21	---	---	---	---	---	---	2.58	1.14	1.64	3.95	4.23	3.91
22	---	---	---	---	---	---	2.54	1.08	2.50	3.93	4.40	3.89
23	---	---	---	---	---	---	2.48	1.02	2.72	3.91	4.13	3.90
24	---	---	---	---	---	---	2.41	0.95	2.88	3.88	3.99	3.91
25	---	---	---	---	---	---	2.36	0.90	3.07	3.87	3.93	---
26	---	---	---	---	---	---	2.32	0.86	3.73	3.95	3.93	---
27	---	---	---	---	---	---	2.27	0.81	4.23	4.16	4.56	---
28	---	---	---	---	---	3.38	2.21	0.78	4.14	4.01	6.11	3.87
29	---	---	---	---	---	3.34	2.16	0.74	4.14	3.95	4.99	3.85
30	---	---	---	---	---	3.30	2.10	0.69	4.18	4.20	4.70	3.84
31	---	---	---	---	---	3.25	---	0.62	---	4.05	5.12	---
MEAN	---	---	---	---	---	---	2.68	1.29	1.58	4.24	4.20	---
MAX	---	---	---	---	---	---	3.21	2.04	4.23	6.07	6.11	---
MIN	---	---	---	---	---	---	2.10	0.62	0.36	3.87	3.82	---

MANATEE RIVER BASIN

02300042 WARD LAKE OUTFALL NEAR BRADENTON, FL

LOCATION.--Lat 27°26'28", long 82°29'16" (1927 North American datum), in NE¼ 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 and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Discharge affected by diversion by city of Bradenton. Records of gage height are published as elevations for Ward Lake (station 02300042) in the section of this report entitled LAKE ELEVATIONS.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	37	0.00	0.00	0.00	35	0.00	0.00	0.00	192	158	848
2	128	34	0.00	0.00	0.00	29	0.00	0.00	0.00	148	153	559
3	127	31	0.00	0.00	0.00	20	0.00	0.00	0.00	138	203	440
4	127	25	0.00	0.00	0.00	16	0.00	0.00	0.00	202	200	535
5	127	18	0.00	0.00	0.00	15	0.00	0.00	0.00	183	234	446
6	128	15	0.00	0.00	0.00	15	0.00	0.00	0.00	116	246	517
7	118	14	0.00	0.00	0.00	16	0.00	0.00	0.00	88	125	533
8	90	11	0.00	0.00	0.00	15	0.00	0.00	0.00	73	119	396
9	75	9.2	0.00	0.00	0.00	15	0.00	0.00	0.00	56	80	304
10	58	7.6	0.00	0.00	0.00	16	0.00	0.00	0.00	80	66	367
11	59	4.5	0.00	0.00	0.00	11	0.00	0.00	0.00	115	46	331
12	62	2.6	0.00	0.00	0.00	8.8	0.00	0.00	0.00	467	37	542
13	62	1.6	0.00	0.00	0.00	8.3	0.00	0.00	0.00	1040	48	737
14	63	0.84	0.00	0.00	0.00	4.7	0.00	0.00	0.00	1110	231	459
15	69	0.48	0.00	0.00	0.00	2.8	0.00	0.00	0.00	594	675	306
16	33	0.08	0.00	0.00	0.00	1.8	0.00	0.00	0.00	296	393	282
17	21	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	184	227	235
18	15	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	184	236	191
19	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	194	186	171
20	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	155	229	156
21	46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	143	331	155
22	114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128	504	122
23	101	0.00	0.00	0.00	125	0.00	0.00	0.00	0.00	112	302	113
24	81	0.00	0.00	0.00	240	0.00	0.00	0.00	0.00	80	186	121
25	64	0.00	0.00	0.00	142	0.00	0.00	0.00	0.00	83	128	190
26	87	0.00	0.00	0.00	87	0.00	0.00	0.00	0.30	138	123	124
27	76	0.00	0.00	0.00	56	0.00	0.00	0.00	96	314	409	104
28	60	0.00	0.00	0.00	42	0.00	0.00	0.00	125	208	1600	90
29	48	0.00	0.00	0.00	---	0.00	0.00	0.00	127	147	1120	75
30	44	0.00	0.00	0.00	---	0.00	0.00	0.00	176	283	609	62
31	39	---	0.00	0.00	---	0.00	---	0.00	---	241	960	---
TOTAL	2280	211.90	0.00	0.00	692.00	230.20	0.00	0.00	524.30	7492	10164	9511
MEAN	73.5	7.06	0.000	0.000	24.7	7.43	0.000	0.000	17.5	242	328	317
MAX	128	37	0.00	0.00	240	35	0.00	0.00	176	1110	1600	848
MIN	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56	37	62
IN.	1.43	0.13	0.00	0.00	0.43	0.14	0.00	0.00	0.33	4.68	6.35	5.95
*PREC	0.44	0.02	0.77	2.01	3.08	0.48	2.54	2.52	7.89	10.05	13.52	6.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
MEAN	62.3	62.1	41.9	45.4	30.0	47.1	21.9	8.06	43.0	172	224	212
MAX	140	452	408	261	243	361	127	46.4	163	485	574	503
(WY)	1996	1998	1998	1998	1998	1998	1993	1997	1996	2001	1999	2001

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1993 - 2002

ANNUAL TOTAL	41984.32	31105.40	
ANNUAL MEAN	115	85.2	81.1
HIGHEST ANNUAL MEAN			173
HIGHEST DAILY MEAN	3930	Sep 15	1600
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00
MAXIMUM PEAK FLOW			1740
MAXIMUM PEAK STAGE			4.68
ANNUAL RUNOFF (INCHES)	26.25	19.45	18.51
10 PERCENT EXCEEDS	295	238	230
50 PERCENT EXCEEDS	0.00	0.00	1.1
90 PERCENT EXCEEDS	0.00	0.00	0.00

*PRECIPITATION, TOTAL, INCHES

MANATEE RIVER BASIN

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL

LOCATION.--Lat 27°26'44", long 82°29'28" (1927 North American datum), in NW¹/₄ sec.15, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on right bank, 250 ft upstream of State Highway 70 bridge, 0.5 mi downstream from Ward Lake Outfall, 1.6 mi south of Elwood Park, 6 miles upstream from mouth, and 6.2 mi southeast of Bradenton.
DRAINAGE AREA.--59.5 mi², approximately.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--April 1992 to current year (gage heights only), incomplete. Records of gage height prior to October 1993 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929 (Manatee County bench mark). Prior to June 5, 1998, on left bank 50 ft upstream of State Highway 70 bridge, 250 ft downstream at same datum.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.56 ft, Sept. 14, 2001; minimum, 8.38 ft, Feb. 5, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.97 ft, Sept. 5; minimum, 8.56 ft, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	11.41	9.72	12.00	9.58	12.19	9.31	12.03	9.07	11.36	9.20	10.88	9.13
2	11.69	9.71	12.21	9.64	11.95	9.16	11.64	9.14	11.04	9.40	11.61	9.34
3	11.87	9.70	12.34	9.66	11.82	9.10	12.18	9.43	11.05	9.39	11.60	9.90
4	11.87	9.74	12.23	9.39	11.68	9.00	10.60	8.79	10.56	9.41	10.60	9.16
5	11.99	9.91	12.13	9.62	11.51	9.05	11.04	9.30	11.10	8.93	10.34	8.56
6	12.13	9.76	11.89	9.53	11.38	9.15	12.09	10.03	11.82	9.07	10.93	8.71
7	12.38	9.77	11.76	9.46	11.19	9.23	11.35	9.66	11.92	9.48	11.28	9.02
8	11.59	9.42	11.80	9.63	11.64	9.78	10.63	8.72	11.27	9.06	11.24	9.14
9	11.36	9.04	11.59	9.54	11.43	9.76	10.95	8.84	11.41	9.03	11.05	9.15
10	11.58	9.28	11.60	9.70	11.62	9.66	11.54	8.94	11.42	9.12	10.82	9.06
11	12.08	9.69	11.96	10.14	11.87	9.43	11.51	9.08	11.42	9.10	11.33	8.88
12	12.29	9.90	11.85	9.79	11.92	9.29	11.91	9.02	11.46	9.20	11.58	9.22
13	12.55	10.40	11.86	9.56	12.15	9.22	11.96	9.18	11.41	9.32	11.86	9.76
14	12.65	10.26	11.88	9.46	12.17	9.30	11.83	9.23	11.19	9.13	11.29	9.42
15	12.00	9.94	12.00	9.53	12.08	9.29	12.11	9.34	11.03	9.33	11.17	9.37
16	12.04	9.84	12.15	9.38	11.75	9.15	11.13	9.06	11.19	9.60	11.18	9.47
17	11.79	9.44	11.54	9.04	11.81	9.31	11.00	9.10	11.09	9.52	11.06	9.33
18	11.47	9.22	11.70	9.06	12.24	9.63	10.96	9.24	10.69	9.23	11.31	9.34
19	11.60	9.30	11.91	9.36	11.86	9.54	10.94	9.25	11.36	9.21	11.38	9.24
20	12.16	9.63	11.88	9.70	11.53	9.31	10.90	9.36	11.94	9.69	11.48	9.40
21	12.07	9.64	12.05	9.73	11.02	9.15	10.80	9.67	11.55	9.44	11.45	9.44
22	12.06	9.71	11.57	9.83	11.05	9.49	10.79	9.32	11.39	9.37	11.33	9.49
23	12.13	10.09	11.41	9.90	11.90	10.05	11.11	9.06	11.25	9.28	11.38	8.97
24	12.00	10.12	11.52	10.12	11.51	10.17	11.66	9.03	11.71	9.30	11.63	9.01
25	11.97	10.06	11.38	10.01	11.52	9.69	11.32	9.21	12.03	9.18	11.69	9.29
26	11.49	9.44	11.35	9.92	11.20	9.50	11.53	9.05	12.11	9.35	11.64	9.30
27	10.71	9.55	11.73	9.58	11.97	9.06	11.76	8.97	12.38	9.52	11.66	9.35
28	10.92	9.43	11.94	9.44	12.40	9.41	11.79	9.01	11.28	9.21	11.50	9.40
29	10.96	9.52	12.01	9.56	12.41	9.77	11.91	9.08	---	---	11.29	9.39
30	11.39	9.40	12.13	9.39	12.17	9.33	11.75	9.07	---	---	11.52	9.45
31	11.63	9.57	---	---	11.96	9.22	11.61	9.13	---	---	11.82	9.51
MONTH	12.65	9.04	12.34	9.04	12.41	9.00	12.18	8.72	12.38	8.93	11.86	8.56

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MANATEE RIVER BASIN

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1993 to current year, incomplete. Records of specific conductance and temperature prior to October 1993 are available in files of the Geological Survey.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located 3.0 ft above the bottom and 1.0 ft above the bottom. Prior to June 5, 1998, sensors located 5.0 ft above the bottom, and 1.0 ft above the bottom at site on State Highway 70 bridge, 250 ft downstream.

REMARKS.--Records good. Data collected at previous site on bridge is considered comparable to data collected at current site on right bank.

EXTREMES FOR PERIOD OF PERIOD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 48,900 microsiemens, June 14, 2000; bottom sensor maximum, 49,200 microsiemens, June 12, 2000; top sensor minimum, 101 microsiemens, Nov. 15, 1997; bottom sensor minimum, 86 microsiemens, Nov. 24, 1997.

TEMPERATURE.--Top sensor maximum, 38.2°C, June 5, 1998; bottom sensor maximum, 35.2°C, Aug. 16, 1998; top sensor minimum, 11.1°C, Feb. 5, 1996; bottom sensor minimum, 12.0°C, Jan. 11, 1996.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 40,700 microsiemens, June 6, 7; bottom sensor maximum, 42,700 microsiemens, June 6, 7; top sensor minimum, 272 microsiemens, Aug. 31; bottom sensor minimum, 279 microsiemens, Aug. 31.

TEMPERATURE.--Top sensor maximum, 33.4°C, Aug. 4; bottom sensor maximum, 32.7°C, July 19; top sensor minimum, 11.9°C, Jan. 9; bottom sensor minimum, 12.4°C, Jan. 8.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(3.0 FT ABOVE BOTTOM)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	400	317	9260	1430	28100	25800	33700	29200	31400	28400	2970	963
2	409	311	11100	1540	28300	26300	32900	28600	31300	28900	5710	2820
3	426	355	12300	2210	27400	25400	33100	27100	31200	29100	10400	5270
4	455	365	13200	2920	28000	23700	29400	25100	30900	28100	9090	6710
5	566	372	10500	4600	27800	24300	30200	24500	30800	14100	---	---
6	1730	410	10600	3940	27800	24200	32000	29100	31700	22400	7490	2620
7	3710	690	13900	5460	28800	25300	30700	28300	33800	30400	15400	4230
8	1460	660	18000	9800	30400	27100	29000	26000	31200	21600	19100	1770
9	1260	839	19400	12600	30200	27600	29500	24500	30800	13800	18300	4840
10	1570	1100	18900	15100	30400	28100	31600	24100	30400	22000	14500	6820
11	5820	1520	19600	15300	30400	27700	32000	28700	29800	24100	16700	2710
12	10600	3140	19500	16500	30800	26200	32600	28100	30100	25300	21600	9460
13	16000	6540	19500	17500	31000	27600	32800	27600	29000	26800	21800	17300
14	17200	10500	19300	17300	31200	28500	32400	28600	29100	26100	21200	14800
15	15300	3410	19100	17200	31600	27100	32600	18300	29600	21000	21800	16400
16	14100	2750	19300	17500	31400	28600	28900	9330	28500	25700	22400	17200
17	12900	4730	18900	17600	31900	29000	28400	16200	28900	27000	22800	15500
18	9710	4320	19000	16000	33000	29600	27800	18100	28000	22200	24000	16900
19	11200	5390	21100	18300	31600	30300	27400	22400	29300	23700	24900	17900
20	14200	6500	22300	19700	31900	30000	28000	24300	30500	26000	26100	21600
21	15900	6030	23700	21200	31200	29100	28400	25200	30800	26200	28400	21100
22	15200	820	24300	21000	30900	28500	28000	24500	31500	28400	27000	18100
23	13400	800	25100	21600	32400	30000	28400	25300	30200	813	26100	22900
24	16500	4150	25000	21200	32700	30200	29100	24000	1120	587	28000	20900
25	17500	3780	25800	21500	31800	29900	29900	26600	2080	618	30500	25200
26	9080	600	25500	22600	31300	29300	30000	27000	3960	632	30600	22200
27	1680	710	25900	23300	31600	21300	30400	23500	7420	1270	30600	23800
28	1810	631	26000	22800	33600	30700	30300	27800	2020	842	30100	27700
29	1940	617	26700	24100	34300	31700	30600	28900	---	---	30200	28200
30	2490	805	27600	25500	34000	29600	31100	28800	---	---	30200	27700
31	4330	912	---	---	33600	29400	31400	30300	---	---	30700	23400
MONTH	17500	311	27600	1430	34300	21300	33700	9330	33800	587	30700	963

MANATEE RIVER BASIN

02300064 BRADEN RIVER AT BRADENTON, FL

LOCATION.--Lat 27°29'46", long 82°31'32" (1927 North American datum), 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 heights only), incomplete.

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 periods when extreme low tides were below the bottom of the gage stilling well.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.58 ft, Sept. 14, 2001; minimum, 8.42 ft, Jan. 15, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.64 ft, Oct. 14; minimum, 8.83 ft, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.38	9.81	12.08	9.70	12.14	9.35	11.95	8.98	11.34	9.24	10.85	9.16
2	11.65	9.82	12.17	9.77	11.91	9.15	11.81	9.12	11.04	9.41	11.72	9.77
3	11.80	9.83	12.30	9.82	11.82	9.10	12.09	9.41	11.03	9.48	11.65	10.02
4	11.83	9.88	12.17	9.47	11.66	8.97	10.52	8.86	10.54	9.51	10.49	8.87
5	11.95	10.08	12.09	9.64	11.49	9.10	11.02	9.41	11.09	8.98	10.28	8.83
6	12.10	9.92	11.86	9.63	11.35	9.21	12.02	10.15	11.84	9.11	10.90	8.85
7	12.35	9.90	11.70	9.60	11.19	9.35	11.22	9.74	11.80	9.67	11.26	9.09
8	11.57	9.54	11.74	9.76	11.63	9.94	10.63	8.87	11.27	9.02	11.22	9.22
9	11.36	9.11	11.59	9.63	11.41	9.87	10.93	8.88	11.41	9.03	11.02	9.23
10	11.50	9.43	11.56	9.80	11.60	9.78	11.57	8.90	11.42	9.12	10.77	9.02
11	12.02	9.88	11.92	10.27	11.80	9.52	11.45	9.08	11.40	9.03	11.29	8.87
12	12.27	10.09	11.81	9.93	11.86	9.35	11.91	9.00	11.43	9.23	11.76	9.29
13	12.59	10.59	11.76	9.66	12.13	9.27	11.91	9.15	11.39	9.30	11.81	9.85
14	12.64	10.45	11.82	9.53	12.12	9.41	12.01	9.26	11.15	9.10	11.23	9.51
15	11.98	10.10	12.00	9.54	12.02	9.32	12.10	9.32	10.96	9.43	11.09	9.49
16	11.96	9.98	12.02	9.39	11.71	9.16	11.11	9.01	11.16	9.68	11.13	9.57
17	11.76	9.48	11.50	9.01	11.81	9.40	10.97	9.10	11.04	9.52	11.07	9.40
18	11.42	9.25	11.62	9.09	12.15	9.67	10.95	9.26	10.68	9.32	11.23	9.29
19	11.78	9.39	11.83	9.45	11.79	9.63	10.95	9.38	11.35	9.30	11.32	9.32
20	12.10	9.74	11.85	9.80	11.51	9.28	10.87	9.50	11.91	9.81	11.49	9.50
21	11.99	9.79	12.05	9.85	10.95	9.21	10.77	9.79	11.54	9.58	11.46	9.55
22	12.01	9.82	11.61	9.98	11.04	9.62	10.79	9.45	11.42	9.47	11.21	9.55
23	12.13	10.18	11.38	10.09	11.84	10.17	11.14	9.14	11.08	9.31	11.34	8.90
24	12.02	10.26	11.51	10.28	11.45	10.24	11.67	9.09	11.63	9.16	11.61	8.96
25	11.89	10.14	11.38	10.15	11.45	9.77	11.34	9.29	12.02	9.10	11.64	9.33
26	11.39	9.53	11.33	10.05	11.15	9.53	11.52	9.05	12.13	9.39	11.60	9.33
27	10.63	9.55	11.68	9.70	11.91	9.08	11.78	8.94	12.28	9.56	11.61	9.36
28	10.87	9.53	11.89	9.54	12.44	9.48	11.84	8.98	11.18	9.16	11.42	9.41
29	10.92	9.61	11.97	9.68	12.42	9.89	11.88	9.11	---	---	11.17	9.40
30	11.41	9.48	12.14	9.48	12.10	9.33	11.73	9.10	---	---	11.49	9.52
31	11.72	9.69	---	---	11.88	9.20	11.58	9.22	---	---	11.79	9.57
MONTH	12.64	9.11	12.30	9.01	12.44	8.97	12.10	8.86	12.28	8.98	11.81	8.83

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MANATEE RIVER BASIN

02300064 BRADEN RIVER AT BRADENTON, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.77	9.43	12.12	9.34	---	---	11.28	9.65	11.52	10.22	---	---
2	11.72	9.43	11.80	9.48	---	---	11.31	9.79	11.75	10.11	---	---
3	11.61	9.48	11.72	9.55	---	---	---	---	11.87	9.99	---	---
4	11.24	9.42	11.42	9.59	---	---	---	---	11.89	9.77	---	---
5	11.02	9.34	11.22	9.62	---	---	---	---	11.82	9.59	---	---
6	10.77	9.05	11.06	9.39	---	---	---	---	12.09	9.59	---	---
7	10.76	8.86	11.30	9.55	11.84	9.92	---	---	12.32	9.49	---	---
8	11.55	9.27	11.51	9.82	11.87	9.69	---	---	12.17	9.43	---	---
9	11.53	9.87	11.72	10.14	11.70	9.44	---	---	12.16	9.62	---	---
10	11.45	9.76	11.70	9.90	12.05	9.50	---	---	11.93	9.57	---	---
11	11.40	9.81	11.65	9.70	12.13	9.41	---	---	11.90	9.78	---	---
12	11.59	9.84	11.83	9.77	12.46	9.63	---	---	11.76	10.05	---	---
13	11.56	9.81	11.98	9.60	12.45	9.70	---	---	11.59	10.08	---	---
14	11.71	9.55	11.93	9.48	12.44	9.84	---	---	11.68	9.99	---	---
15	11.59	9.46	---	---	12.32	9.86	---	---	11.70	10.07	---	---
16	11.64	9.37	---	---	12.01	9.79	---	---	11.61	9.72	---	---
17	11.64	9.42	---	---	11.95	9.87	---	---	11.87	9.81	---	---
18	11.55	9.35	---	---	11.72	9.75	---	---	11.86	9.72	---	---
19	11.69	9.22	---	---	11.78	10.11	---	---	11.96	9.66	---	---
20	11.53	9.27	---	---	11.40	9.76	---	---	12.11	9.79	---	---
21	11.27	9.42	---	---	11.86	9.55	---	---	12.19	9.91	---	---
22	11.45	9.43	---	---	12.18	9.75	---	---	12.06	9.82	---	---
23	11.32	9.65	---	---	12.17	9.55	---	---	12.05	9.91	---	---
24	11.40	9.42	---	---	12.32	9.47	---	---	12.04	10.04	---	---
25	11.55	9.83	---	---	12.32	9.62	---	---	12.00	10.17	---	---
26	11.74	9.66	---	---	12.20	9.52	---	---	11.82	10.27	---	---
27	11.91	9.67	---	---	12.08	9.56	---	---	11.59	10.29	---	---
28	11.96	9.60	---	---	11.94	9.58	---	---	11.70	10.52	---	---
29	11.96	9.47	---	---	11.70	9.62	---	---	11.66	10.19	---	---
30	11.93	9.34	---	---	11.55	9.65	---	---	11.72	10.11	---	---
31	---	---	---	---	---	---	11.44	10.12	11.94	10.17	---	---
MONTH	11.96	8.86	---	---	---	---	---	---	12.32	9.43	---	---

MANATEE RIVER BASIN

02300064 BRADEN RIVER AT BRADENTON, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1995 to current year, incomplete.

INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature sensor located 0.2 ft above the bottom.

REMARKS.--Specific conductance records fair, temperature records good. Interruptions in record were due to periods when the sensor was dry during extreme low tides.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 54,000 microsiemens, June 16, 2000; minimum, 282 microsiemens, Mar. 20, 1998.

TEMPERATURE.--Maximum, 35.0°C, Aug. 25, 2001; minimum, 4.6°C, Dec. 21, 1996.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 50,200 microsiemens, June 8; minimum, 720 microsiemens, Aug. 28.

TEMPERATURE.--Maximum, 34.6°C, July 17; minimum, 11.8°C, Jan. 4.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(0.2 FT ABOVE BOTTOM)

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	23000	9810	---	---	---	---	44500	40800	44500	41900	37900	25700
2	26100	11100	---	---	---	---	44500	40600	44100	42200	41200	28000
3	27900	13600	---	---	---	---	44800	40400	44100	42200	41700	34400
4	28500	16500	---	---	---	---	42000	38700	43500	42300	---	---
5	30300	18800	---	---	42100	37500	43600	40000	44300	41200	---	---
6	32400	22100	---	---	42200	38200	44800	41600	45700	41700	37600	26400
7	33200	21000	---	---	41800	38800	43800	41100	45300	43000	39100	28600
8	28500	20200	---	---	43400	40000	42200	38600	43800	38600	40000	29400
9	30500	18600	---	---	42900	40400	43000	39000	43900	39400	40400	30200
10	31400	21600	---	---	43300	40200	44600	39500	44100	39800	39700	31000
11	33300	25000	---	---	43600	40100	44500	40100	44000	40000	40100	30500
12	35200	26800	---	---	43700	39900	44800	40200	43600	40000	41600	34500
13	37400	30000	---	---	43700	39800	45000	41000	43700	40800	41600	36800
14	38400	30600	---	---	44100	40600	44200	40600	43000	40100	40700	35600
15	36400	29400	---	---	44200	40600	44400	38000	43500	40400	40400	36200
16	35500	29300	---	---	43200	38200	42000	37800	43900	41400	41300	37300
17	35000	28000	---	---	42700	36100	42200	38100	43200	41300	40600	36100
18	34100	27500	---	---	43300	38600	42200	39000	43100	41000	41300	36500
19	35900	28000	---	---	42700	36300	43200	39700	44600	40800	41500	36500
20	37800	30100	---	---	42700	37900	43300	40200	45300	41800	42500	37800
21	38000	26400	---	---	42400	39900	43100	41300	45100	41900	42600	37000
22	37100	25000	---	---	43600	41200	42600	39400	44000	41500	40700	37900
23	---	---	---	---	45000	42000	43400	38600	42400	38300	41400	34500
24	---	---	---	---	44600	42400	44200	39000	40700	29200	43000	36500
25	---	---	---	---	43600	41800	44000	40100	42100	22100	43300	38700
26	---	---	---	---	43700	41200	44000	39600	42100	25700	43600	37500
27	---	---	---	---	44800	40300	44000	39800	42300	28400	43800	40100
28	---	---	---	---	45400	41200	44100	40000	37900	26100	43700	40700
29	---	---	---	---	45400	42100	44500	40700	---	---	42900	38100
30	---	---	---	---	44900	41600	44400	41200	---	---	43900	38000
31	---	---	---	---	44400	41100	44400	41500	---	---	44500	41300
MONTH	---	---	---	---	---	---	45000	37800	45700	22100	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

MANATEE RIVER BASIN

02300064 BRADEN RIVER AT BRADENTON, FL--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(0.2 FT ABOVE BOTTOM)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	44600	41700	47000	44100	49800	46700	27500	14000	25400	15800	10900	1110
2	44900	41300	47000	44400	49800	47100	22500	13100	28300	14300	18000	1700
3	44500	41400	47300	44500	49700	48400	24200	13800	30000	16200	22400	3560
4	43900	40500	47100	41600	49800	47100	23700	12100	30100	16500	20500	3750
5	43200	40800	46400	44800	49700	46300	22500	8620	28800	15300	23500	4980
6	43100	40400	46300	44100	49800	44800	23700	10000	27400	13500	18300	4040
7	44300	39600	47400	42200	50100	47700	27800	11900	28900	12100	19400	3540
8	45700	41000	47700	43100	50200	45500	25200	11400	27000	13300	19300	3830
9	45800	42500	47700	46300	48900	44700	29700	16300	28800	13900	21300	5230
10	46100	41900	48200	46600	49300	45600	32300	18300	26700	15900	21000	4160
11	45600	42300	48600	47100	49500	45900	34500	19300	28500	17400	22700	6330
12	45800	42300	48900	47100	49800	46100	30300	8820	31500	19200	20900	1800
13	45800	43100	49000	47500	50000	46700	27600	4890	31600	20800	15700	1080
14	46100	43400	49600	47500	49900	46800	7600	2720	30900	14700	18200	2210
15	46000	43300	49100	47400	49400	47000	3710	2050	26800	6910	19600	3810
16	45900	43300	49400	46400	49600	46500	5710	2170	26200	5300	19700	5370
17	45900	40900	49700	46200	49400	46100	8050	2930	25900	9530	21400	5580
18	44700	40300	49900	45500	47200	42700	9090	3670	28900	10700	23000	7730
19	44900	40500	48900	41900	47100	42800	14000	3690	30500	10500	25000	10200
20	44800	41400	46500	44300	45800	41700	16400	5350	31000	7440	27100	13200
21	44800	41800	47000	41800	46200	40400	19400	5130	27200	5640	28300	15800
22	44800	42900	47100	44000	46800	40000	24700	7130	22800	3890	28800	17600
23	44700	42800	47600	45600	45800	40800	23900	9570	23700	5730	31000	19300
24	44800	41600	48800	46600	45900	41000	25400	10900	24300	8230	31500	13400
25	45400	41500	49300	47200	45100	39600	27200	12300	25200	11200	30200	16000
26	45800	42100	49500	47400	42700	37600	25300	12400	27300	12400	32900	20500
27	46000	44100	49500	47300	38800	27300	25600	11000	24800	5950	31800	18100
28	46400	44200	49800	47100	34600	24000	24900	11000	5950	720	29000	17000
29	46500	44200	49800	46800	30200	20800	25000	11800	7730	770	27000	16500
30	46400	44200	50000	45600	28800	18800	25600	12000	10400	1330	28400	16900
31	---	---	50100	46900	---	---	26500	11200	10000	1010	---	---
MONTH	46500	39600	50100	41600	50200	18800	34500	2050	31600	720	32900	1080

MANATEE RIVER BASIN

02300064 BRADEN RIVER AT BRADENTON, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(0.2 FT ABOVE BOTTOM)

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.9	22.6	---	---	---	---	18.1	15.5	25.8	23.1	17.0	14.0
2	26.2	21.8	---	---	---	---	16.5	15.8	25.7	23.7	20.7	16.4
3	26.8	23.5	---	---	---	---	16.3	13.8	24.6	22.8	22.2	19.5
4	26.9	24.9	---	---	25.4	22.3	15.9	11.8	22.8	19.8	---	---
5	27.5	25.4	---	---	24.2	21.9	14.8	11.9	21.0	16.0	---	---
6	28.1	26.2	---	---	24.1	21.6	16.2	13.8	21.0	17.0	18.6	14.3
7	30.4	26.8	---	---	25.7	22.2	15.9	14.0	20.5	19.5	17.1	16.4
8	29.1	26.3	---	---	25.2	23.1	14.3	12.1	19.6	16.2	21.2	16.0
9	27.8	24.6	---	---	25.6	23.7	14.8	11.9	19.5	17.0	21.6	18.8
10	27.2	24.5	---	---	25.4	24.0	15.3	12.0	19.6	19.0	23.5	20.6
11	27.4	24.6	---	---	25.4	23.9	15.9	13.3	20.3	18.3	23.8	19.6
12	27.3	24.7	---	---	25.6	24.0	16.8	14.6	20.2	18.2	23.6	21.3
13	27.2	25.1	---	---	25.2	23.9	18.3	15.5	19.5	18.1	24.4	21.9
14	27.4	25.8	---	---	25.3	24.2	17.3	16.0	18.9	16.9	24.9	21.8
15	28.1	26.1	---	---	25.6	24.3	19.7	16.6	19.9	16.7	25.8	22.7
16	27.0	25.7	---	---	25.2	24.2	19.4	16.8	19.8	18.7	26.5	23.7
17	26.0	22.4	---	---	25.0	24.1	18.7	17.2	20.0	17.8	27.2	24.6
18	24.2	20.5	---	---	24.7	23.9	19.6	17.1	19.4	16.2	26.6	24.4
19	25.0	22.3	---	---	23.9	22.6	20.8	17.6	19.9	16.3	27.2	25.0
20	26.5	23.9	---	---	22.9	21.4	22.6	19.1	20.1	17.5	27.2	25.1
21	26.7	24.4	---	---	21.4	17.4	22.7	20.2	21.2	19.4	26.7	25.2
22	26.8	24.3	---	---	20.5	17.5	22.9	21.4	21.4	20.1	26.2	23.9
23	---	---	---	---	20.2	18.4	23.6	21.5	20.3	17.9	25.2	19.9
24	---	---	---	---	21.2	19.6	23.8	21.3	19.8	16.2	24.9	20.3
25	---	---	---	---	19.7	17.5	24.0	21.5	20.7	17.1	26.2	22.5
26	---	---	---	---	17.5	15.5	24.2	22.4	21.4	18.7	27.3	23.8
27	---	---	---	---	16.2	13.3	24.1	22.1	20.0	16.7	27.4	24.9
28	---	---	---	---	16.8	14.5	24.6	22.6	17.0	13.2	26.8	23.5
29	---	---	---	---	18.6	16.5	24.9	22.9	---	---	26.4	23.6
30	---	---	---	---	19.1	17.9	25.5	23.1	---	---	26.7	24.4
31	---	---	---	---	18.0	17.2	26.3	23.2	---	---	26.7	25.0
MONTH	---	---	---	---	---	---	26.3	11.8	25.8	13.2	---	---
DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	27.0	25.3	30.1	27.8	31.4	28.1	30.1	27.8	34.4	30.8	31.6	28.4
2	27.2	25.7	30.5	27.8	31.7	29.0	31.4	27.6	31.9	29.7	32.5	29.3
3	26.9	25.2	31.2	28.3	31.8	29.5	33.9	28.6	31.8	29.5	32.6	29.9
4	27.1	23.7	31.7	28.9	30.5	29.4	31.8	30.1	33.3	29.7	33.0	29.8
5	27.3	24.8	31.7	29.3	30.9	28.5	31.5	29.5	33.8	30.3	31.6	28.8
6	26.6	22.2	31.8	28.4	31.6	27.8	32.7	29.2	32.9	30.6	30.6	27.6
7	25.9	22.6	31.1	28.1	31.7	29.5	31.3	28.7	31.3	29.0	30.4	27.7
8	25.4	20.9	31.3	27.8	30.2	28.3	30.9	27.5	31.5	28.0	30.8	27.8
9	25.6	22.4	31.1	27.5	30.9	27.7	30.0	27.2	30.9	27.7	30.8	28.4
10	25.9	23.9	30.9	27.8	30.8	27.6	29.6	27.4	31.1	27.8	31.0	28.8
11	26.8	24.3	30.5	27.6	30.8	28.2	29.6	27.6	30.3	28.3	30.5	27.8
12	25.7	24.4	30.4	27.3	31.0	28.2	29.4	27.6	30.3	28.5	28.8	26.0
13	25.9	23.7	30.6	27.9	31.6	29.6	28.9	26.7	30.8	28.9	27.6	25.7
14	27.3	24.3	30.7	28.5	31.7	29.8	30.0	27.2	32.7	28.8	28.7	26.5
15	27.5	24.9	29.5	27.0	31.1	29.3	31.8	28.8	32.4	28.5	31.3	26.6
16	28.2	25.7	28.4	25.6	31.4	29.4	32.9	30.0	32.8	28.9	32.1	28.5
17	28.6	26.3	29.4	26.2	30.3	27.4	34.6	31.2	32.6	28.9	32.7	29.1
18	28.9	26.2	29.8	27.6	29.2	27.0	33.5	31.3	32.5	29.1	32.8	29.0
19	29.7	26.3	29.0	26.8	29.4	27.1	33.6	30.8	32.4	29.2	31.9	29.1
20	29.5	26.3	28.5	25.0	30.1	27.1	32.7	31.1	31.9	29.1	31.4	28.6
21	29.5	27.1	28.2	24.2	30.0	26.9	32.3	29.4	32.5	27.8	31.2	28.6
22	30.2	27.9	27.2	24.0	29.5	27.1	31.2	28.9	32.7	27.3	30.8	28.5
23	30.1	27.6	27.3	23.7	29.2	27.2	31.3	28.4	31.6	28.6	29.9	28.5
24	30.1	26.9	27.8	23.7	29.8	27.5	31.9	29.4	32.8	29.2	29.8	27.9
25	29.9	26.7	27.7	24.9	29.4	27.7	32.0	29.5	32.5	30.1	29.4	27.8
26	30.0	27.6	27.1	25.3	31.0	27.9	31.6	29.3	32.6	30.7	29.1	27.8
27	30.3	27.6	27.2	25.4	31.0	28.5	32.3	29.5	31.8	27.6	30.5	27.8
28	30.0	27.6	28.6	25.6	31.2	28.4	33.0	29.6	28.8	26.5	32.1	27.5
29	29.9	28.0	28.7	26.5	31.1	28.3	34.3	30.1	29.8	27.2	32.9	28.6
30	30.0	27.7	29.7	27.1	30.8	28.2	32.7	29.5	31.3	27.8	31.5	28.6
31	---	---	30.4	27.4	---	---	33.8	29.4	31.4	27.5	---	---
MONTH	30.3	20.9	31.8	23.7	31.8	26.9	34.6	26.7	34.4	26.5	33.0	25.7

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300100 LITTLE MANATEE RIVER NEAR FORT LONESOME, FL

LOCATION.--Lat 27°42'16", long 82°11'53" (1927 North American datum), in NW¼ 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 good. Small diurnal fluctuation at low flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	5.1	2.5	4.1	3.9	10	1.1	2.2	0.77	136	51	100
2	99	5.0	2.5	4.4	3.7	8.5	1.2	2.5	1.1	248	27	101
3	71	4.9	2.5	6.2	3.6	9.2	2.9	10	0.60	179	17	102
4	48	4.7	2.6	5.6	3.3	52	4.6	9.7	0.52	166	24	97
5	31	4.7	2.5	5.4	3.1	47	3.4	7.0	0.61	172	37	82
6	22	4.6	2.5	5.4	3.1	16	3.2	3.9	2.1	124	14	99
7	46	4.2	2.8	5.5	3.7	9.0	2.6	2.5	24	100	25	95
8	56	4.0	5.9	5.1	5.0	7.9	1.7	2.4	37	90	48	74
9	62	3.9	5.3	4.8	5.1	6.8	1.8	1.9	41	87	31	58
10	69	3.6	4.9	4.7	5.5	6.0	1.2	1.7	43	100	21	72
11	55	3.5	5.1	4.7	5.9	5.1	0.98	1.4	45	86	13	51
12	30	3.4	4.5	4.4	5.6	4.7	6.5	1.2	47	135	9.5	35
13	14	3.3	6.1	4.6	5.2	5.9	47	1.1	39	191	8.8	47
14	8.7	3.4	23	5.4	5.1	5.7	68	1.0	28	205	7.4	50
15	12	3.6	27	14	4.9	5.2	126	0.87	15	179	16	49
16	9.2	3.5	25	12	4.7	4.5	33	0.86	8.5	147	9.4	31
17	7.8	3.3	30	11	4.4	4.1	15	0.57	8.5	137	16	20
18	7.0	3.3	33	8.3	3.7	3.5	9.2	0.49	33	129	67	13
19	6.4	3.3	38	6.7	3.8	3.4	7.4	8.5	40	137	32	9.9
20	6.1	3.3	45	6.1	3.5	2.9	6.0	5.3	59	108	28	9.4
21	8.0	3.2	38	5.9	3.6	2.7	5.9	2.5	35	95	23	18
22	16	3.2	16	5.7	27	2.7	5.4	2.0	67	78	23	64
23	14	3.1	7.5	5.5	86	2.3	4.7	1.7	77	66	42	67
24	18	3.0	5.6	5.3	86	2.1	3.8	1.4	66	65	44	93
25	11	3.0	4.8	5.3	59	2.4	3.4	0.98	72	64	40	104
26	9.4	2.9	5.5	5.2	32	2.6	3.5	1.0	72	69	32	69
27	7.8	2.9	4.9	4.8	19	1.8	2.8	0.76	57	77	44	70
28	6.7	2.7	4.7	4.7	16	1.6	2.7	1.0	75	83	68	60
29	6.0	2.5	4.6	4.4	---	1.6	2.8	0.76	81	85	91	56
30	5.4	2.5	4.3	4.1	---	1.9	2.8	0.98	115	83	178	58
31	5.1	---	4.2	4.0	---	1.4	---	0.93	---	67	125	---
TOTAL	883.6	107.6	370.8	183.3	415.4	240.5	380.58	79.10	1190.70	3688	1212.1	1854.3
MEAN	28.5	3.59	12.0	5.91	14.8	7.76	12.7	2.55	39.7	119	39.1	61.8
MAX	116	5.1	45	14	86	52	126	10	115	248	178	104
MIN	5.1	2.5	2.5	4.0	3.1	1.4	0.98	0.49	0.52	64	7.4	9.4
CFSM	0.91	0.11	0.38	0.19	0.47	0.25	0.40	0.08	1.26	3.79	1.25	1.97
IN.	1.05	0.13	0.44	0.22	0.49	0.28	0.45	0.09	1.41	4.37	1.44	2.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	22.2	14.0	15.4	21.0	27.0	29.5	14.1	10.1	29.5	52.7	63.8	66.5
MAX	83.0	76.4	139	91.2	154	232	101	76.1	163	187	264	262
(WY)	1996	1996	1998	1998	1998	1998	1973	1987	1968	1968	1967	1979
MIN	0.36	0.38	1.19	1.58	1.92	0.58	0.001	0.000	0.66	2.13	1.56	4.72
(WY)	1975	1975	1985	1975	2001	1974	1975	1967	1964	1985	1996	1974

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1964 - 2002

ANNUAL TOTAL	11346.02	10605.98	
ANNUAL MEAN	31.1	29.1	30.5
HIGHEST ANNUAL MEAN			77.8
LOWEST ANNUAL MEAN			7.98
HIGHEST DAILY MEAN	853	248	2190
LOWEST DAILY MEAN	0.21	0.49	0.00
ANNUAL SEVEN-DAY MINIMUM	0.38	0.79	0.00
MAXIMUM PEAK FLOW		341	3100
MAXIMUM PEAK STAGE		8.52	12.21
ANNUAL RUNOFF (CFSM)	0.99	0.93	0.97
ANNUAL RUNOFF (INCHES)	13.44	12.57	13.20
10 PERCENT EXCEEDS	93	86	74
50 PERCENT EXCEEDS	3.6	6.7	8.6
90 PERCENT EXCEEDS	0.73	2.1	1.1

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV 29...	1213	2.23	2.6	7.8	6.3	218	19.5	E.60	<.01	.250	.01	.520	E.50
JAN 29...	1215	2.42	4.4	7.3	5.9	249	21.4	1.0	.01	.130	<.01	.600	.55
MAR 28...	1044	2.16	1.7	7.3	6.3	241	19.6	.80	.04	.290	<.01	.510	.53
MAY 15...	1246	1.98	.91	7.0	6.8	301	24.2	.40	.02	.540	<.01	.310	.35
JUL 17...	1300	6.50	137	5.0	7.0	469	28.1	.90	.02	.040	<.01	.690	.73
SEP 10...	1228	5.73	75	5.4	6.9	434	26.2	.80	.01	.060	<.01	.610	.63

Remark codes used in this report:

< -- Less than

E -- Estimated value

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300210 SOUTH FORK LITTLE MANATEE RIVER NEAR PARRISH, FL

LOCATION.--Lat 27°36'06", long 82°12'41" (1927 North American datum), in SW¹/₄ sec.16, T.33 S., R.21 E., Manatee County, Hydrologic Unit 03100203, on southwest side of bridge, 1.2 mi north of State Road 674, and 13.1 mi east of Parrish.
 DRAINAGE AREA.--21.4 mi².
 PERIOD OF RECORD.--October 2000 to current year.
 GAGE.--Water-stage recorder. Datum of gage has not been determined.
 REMARKS.--Records good except those for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	5.6	4.8	8.3	7.3	3.3	84	5.9	1.1	32	32	161
2	9.9	4.9	4.4	11	8.5	3.7	39	3.9	2.2	36	27	91
3	9.7	4.4	4.3	6.2	8.0	3.3	19	3.2	1.7	15	70	113
4	8.5	4.9	4.2	5.1	7.2	4.7	13	4.7	1.2	8.3	77	47
5	9.1	5.7	3.8	6.5	6.9	19	10	4.8	0.96	6.3	64	24
6	9.7	7.5	3.8	10	5.2	18	8.5	5.5	1.1	4.6	69	41
7	11	6.0	4.6	5.9	4.4	14	7.0	6.1	1.6	3.6	175	56
8	10	4.7	5.1	6.0	4.2	13	6.7	5.5	1.9	2.9	101	122
9	12	4.2	5.4	5.8	4.0	11	9.6	3.9	1.5	3.3	62	283
10	10	3.9	6.2	6.4	4.1	8.4	8.1	3.1	1.1	5.3	46	182
11	9.3	4.0	7.2	8.9	5.2	6.8	6.0	4.1	0.78	13	188	157
12	6.7	3.9	9.2	5.7	5.1	6.3	5.8	4.1	0.61	15	278	269
13	6.6	3.6	6.4	5.1	4.0	5.6	5.8	3.7	0.43	20	169	313
14	8.4	3.9	5.1	4.9	4.2	5.2	5.2	3.9	0.36	45	103	1210
15	7.9	5.0	6.7	5.6	5.5	5.0	7.3	3.8	3.9	72	63	851
16	10	4.2	5.9	5.7	4.5	4.3	8.1	3.1	21	56	46	363
17	9.1	3.9	7.4	7.0	3.6	4.4	6.1	2.8	7.2	220	31	190
18	6.8	3.8	7.6	7.7	3.5	4.3	4.0	3.6	4.6	212	25	128
19	6.9	3.7	5.4	9.0	4.5	5.5	3.2	3.8	3.9	123	41	94
20	8.0	3.3	5.1	12	3.8	7.7	3.7	4.1	5.4	110	71	75
21	6.9	3.1	5.2	9.6	3.4	6.7	3.9	4.4	4.9	88	44	54
22	6.6	4.3	7.7	7.1	3.5	6.7	3.1	3.8	13	244	24	83
23	9.1	5.7	6.6	5.8	3.5	6.1	2.7	6.5	20	220	16	109
24	7.9	8.8	5.4	5.5	3.1	7.2	2.7	4.8	44	204	12	71
25	5.4	6.7	4.6	5.1	3.0	5.5	3.6	2.8	37	122	9.6	45
26	5.6	11	4.2	5.1	3.5	7.5	3.5	2.7	25	83	8.6	32
27	6.3	11	4.1	4.9	3.7	6.9	2.9	3.7	14	63	8.6	28
28	5.8	7.8	5.5	4.8	3.2	4.8	3.0	4.4	19	158	8.2	29
29	6.7	6.1	6.6	7.2	---	25	4.5	3.9	13	107	e6.8	30
30	7.0	5.5	5.5	8.3	---	299	5.7	2.3	12	66	6.3	26
31	7.4	---	5.2	7.2	---	165	---	1.4	---	39	153	---
TOTAL	253.8	161.1	173.2	213.4	130.6	693.9	295.7	124.3	264.44	2397.3	2035.1	5277
MEAN	8.19	5.37	5.59	6.88	4.66	22.4	9.86	4.01	8.81	77.3	65.6	176
MAX	12	11	9.2	12	8.5	299	84	6.5	44	244	278	1210
MIN	5.4	3.1	3.8	4.8	3.0	3.3	2.7	1.4	0.36	2.9	6.3	24

e Estimated

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

MEAN	8.19	5.37	5.59	6.88	4.66	22.4	9.86	4.01	8.81	77.3	65.6	176
MAX	8.19	5.37	5.59	6.88	4.66	22.4	9.86	4.01	8.81	77.3	65.6	176
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	8.19	5.37	5.59	6.88	4.66	22.4	9.86	4.01	8.81	77.3	65.6	176
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

ANNUAL TOTAL	12019.84
ANNUAL MEAN	32.9
HIGHEST DAILY MEAN	1210 Sep 14
LOWEST DAILY MEAN	0.36 Jun 14
ANNUAL SEVEN-DAY MINIMUM	0.95 Jun 8
MAXIMUM PEAK FLOW	2380 Sep 14
MAXIMUM PEAK STAGE	20.30 Sep 14
10 PERCENT EXCEEDS	86
50 PERCENT EXCEEDS	6.6
90 PERCENT EXCEEDS	3.3

LITTLE MANATEE RIVER BASIN

02300210 SOUTH FORK LITTLE MANATEE RIVER NEAR PARRISH, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	10	4.5	3.9	5.3	16	8.1	5.7	3.4	114	8.2	76
2	14	10	5.7	4.2	5.1	13	8.5	5.3	2.9	404	11	48
3	12	11	4.4	6.3	5.5	14	6.6	5.5	2.4	196	18	66
4	10	9.8	4.0	5.8	5.3	26	10	5.2	2.1	109	15	49
5	9.9	8.4	4.7	6.9	4.7	32	12	3.8	2.0	71	21	47
6	11	9.7	4.5	8.5	4.0	24	7.7	4.3	2.0	47	16	139
7	10	9.1	4.1	6.4	5.2	16	5.1	4.5	2.2	32	16	97
8	11	9.2	7.6	5.6	11	13	3.9	4.7	2.2	22	51	59
9	10	7.2	7.0	5.4	8.2	11	3.7	4.6	3.0	19	42	36
10	10	6.5	5.7	7.2	7.7	9.8	3.7	4.1	3.0	17	25	27
11	11	5.8	5.2	5.1	9.4	11	3.8	3.7	2.1	13	15	25
12	8.6	5.1	4.8	5.0	8.4	14	4.3	3.3	2.1	28	11	34
13	7.9	6.9	4.5	6.4	7.0	14	100	3.2	20	278	9.8	73
14	6.7	8.1	4.5	6.6	6.8	11	136	3.5	16	281	10	68
15	6.5	6.7	5.1	27	6.7	9.3	117	3.8	9.0	154	22	77
16	6.8	6.2	5.7	29	6.0	8.0	84	5.7	9.9	96	19	46
17	7.4	7.2	5.3	19	5.3	8.4	57	4.8	9.3	61	16	35
18	8.1	7.1	5.3	14	4.9	10	24	3.2	61	41	26	24
19	7.7	7.4	5.0	11	4.9	11	14	23	44	29	36	19
20	9.0	5.8	4.2	10	5.3	8.4	10	89	20	46	33	21
21	13	5.6	3.7	10	5.1	6.4	7.3	42	30	33	34	27
22	34	5.5	3.7	10	37	7.4	5.7	13	96	21	26	24
23	26	6.3	3.9	9.5	139	8.9	4.6	7.3	71	16	19	19
24	21	5.6	3.7	8.6	141	11	4.1	5.1	89	13	13	22
25	17	5.2	3.6	7.9	77	10	5.2	4.0	227	12	10	75
26	16	6.7	4.9	7.2	40	16	6.6	3.3	138	10	9.6	82
27	14	5.5	4.5	6.4	23	11	6.0	3.5	100	9.5	35	66
28	12	5.0	4.1	6.0	17	7.4	7.1	11	69	7.3	104	48
29	9.8	4.6	3.9	5.8	---	5.7	8.2	9.0	112	10	98	32
30	9.0	4.3	4.1	6.3	---	4.7	7.2	5.0	89	8.8	109	20
31	9.7	---	3.9	6.3	---	6.8	---	3.7	---	8.7	115	---
TOTAL	377.1	211.5	145.8	277.3	605.8	375.2	681.4	297.8	1239.6	2207.3	993.6	1481
MEAN	12.2	7.05	4.70	8.95	21.6	12.1	22.7	9.61	41.3	71.2	32.1	49.4
MAX	34	11	7.6	29	141	32	136	89	227	404	115	139
MIN	6.5	4.3	3.6	3.9	4.0	4.7	3.7	3.2	2.0	7.3	8.2	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	10.2	6.21	5.15	7.91	13.1	17.2	16.3	6.81	25.1	74.3	48.9	113
MAX	12.2	7.05	5.59	8.95	21.6	22.4	22.7	9.61	41.3	77.3	65.6	176
(WY)	2002	2002	2001	2002	2002	2001	2002	2002	2002	2001	2001	2001
MIN	8.19	5.37	4.70	6.88	4.66	12.1	9.86	4.01	8.81	71.2	32.1	49.4
(WY)	2001	2001	2002	2001	2001	2002	2001	2001	2001	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	12166.14	8893.4		
ANNUAL MEAN	33.3	24.4	28.6	
HIGHEST ANNUAL MEAN			32.9	2001
LOWEST ANNUAL MEAN			24.4	2002
HIGHEST DAILY MEAN	1210	Sep 14	1210	Sep 14 2001
LOWEST DAILY MEAN	0.36	Jun 14	0.36	Jun 14 2001
ANNUAL SEVEN-DAY MINIMUM	0.95	Jun 8	0.95	Jun 8 2001
MAXIMUM PEAK FLOW			509	Jul 2
MAXIMUM PEAK STAGE			17.78	Jul 2
10 PERCENT EXCEEDS	86	70	75	2380
50 PERCENT EXCEEDS	6.8	9.4	7.5	20.30
90 PERCENT EXCEEDS	3.5	4.0	3.7	Sep 14 2001

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300300 SOUTH FORK LITTLE MANATEE RIVER NEAR WIMAUMA, FL

LOCATION.--Lat 27°38'57", long 82°17'40" (1927 North American datum), in SE¹/₄ sec.34, T.32 S., R.20 E., Hillsborough County, Hydrologic Unit 03100203, on right bank 50 ft upstream from bridge on State Highway 579, 1.0 mi upstream from mouth, and 4.3 mi south of Wimauma.

DRAINAGE AREA.--38.4 mi².

PERIOD OF RECORD.--October 1987 to September 1988; October 2000 to September 2001.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	22	16	13	15	57	17	13	8.9	e117	24	106
2	38	22	15	13	15	50	17	12	8.3	e340	40	70
3	34	22	15	17	15	43	19	12	7.5	e390	54	52
4	31	22	14	16	15	44	18	11	7.0	e210	52	64
5	28	21	15	15	14	51	19	11	6.7	e135	39	57
6	27	20	16	17	14	52	19	10	6.5	e85	38	71
7	27	20	16	18	15	45	15	10	6.3	e55	40	120
8	26	21	28	16	23	39	12	10	6.4	e48	47	85
9	25	21	24	15	22	35	11	9.5	6.4	e37	55	57
10	23	18	19	15	19	32	10	9.2	7.0	e37	52	57
11	23	17	17	16	20	30	10	8.6	7.0	e40	39	63
12	23	16	15	14	21	31	12	8.1	6.2	e40	30	67
13	21	15	14	14	19	37	19	7.3	6.1	155	25	76
14	19	18	14	17	19	32	68	7.4	19	491	42	76
15	21	20	13	32	18	31	102	7.9	19	294	86	79
16	19	17	13	39	17	28	89	8.2	e18	156	49	73
17	19	16	13	36	15	26	66	13	e17	98	44	50
18	20	17	14	29	15	26	49	11	e51	71	94	41
19	21	18	16	24	15	27	29	18	50	58	55	35
20	21	18	15	21	14	27	22	36	46	48	50	29
21	37	18	13	20	15	23	18	57	e30	53	47	30
22	36	18	12	19	35	21	16	40	e80	45	43	32
23	41	16	12	19	161	21	14	20	e84	37	36	29
24	37	14	13	19	243	22	13	15	e116	32	30	29
25	33	14	12	18	183	25	12	13	200	29	26	41
26	34	15	13	17	113	29	12	11	264	26	27	62
27	30	17	14	16	79	28	13	9.4	144	26	57	66
28	26	16	13	15	64	23	12	10	106	25	121	55
29	24	17	13	15	---	19	13	15	132	23	124	e46
30	21	17	13	15	---	17	14	14	116	26	97	e40
31	20	---	13	16	---	16	---	10	---	28	117	---
TOTAL	850	543	463	586	1233	987	760	447.6	1582.3	3255	1680	1758
MEAN	27.4	18.1	14.9	18.9	44.0	31.8	25.3	14.4	52.7	105	54.2	58.6
MAX	45	22	28	39	243	57	102	57	264	491	124	120
MIN	19	14	12	13	14	16	10	7.3	6.1	23	24	29

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	24.8	29.2	17.7	23.6	28.8	43.4	21.1	11.4	25.4	82.9	91.6	227			
MAX	28.5	43.1	22.9	35.6	44.0	64.3	25.3	14.4	52.7	105	126	326			
(WY)	1988	1988	1989	1989	2002	1988	2002	2002	2002	2002	1988	1988			
MIN	19.1	14.9	12.5	12.8	9.03	31.8	13.4	7.23	9.56	40.3	54.2	58.6			
(WY)	2001	2001	2001	2001	2001	2002	1988	2001	1988	1988	2002	2002			

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1988 - 2002

ANNUAL TOTAL	19963.0	14144.9		
ANNUAL MEAN	54.7	38.8		
HIGHEST ANNUAL MEAN			51.4	
LOWEST ANNUAL MEAN			61.8	1988
HIGHEST DAILY MEAN	1680	Sep 14	38.8	2002
LOWEST DAILY MEAN	2.7	Jun 15	4200	Sep 7 1988
ANNUAL SEVEN-DAY MINIMUM	3.9	Jun 10	2.7	Jun 15 2001
MAXIMUM PEAK FLOW			6.5	Jun 7
MAXIMUM PEAK STAGE			562	Jul 14
10 PERCENT EXCEEDS	121		17.93	Jul 14
50 PERCENT EXCEEDS	16		79	
90 PERCENT EXCEEDS	6.8		12	8.1

WATER RESOURCES DATA FOR FLORIDA, 2002
Volume 3A: Southwest Florida Surface Water

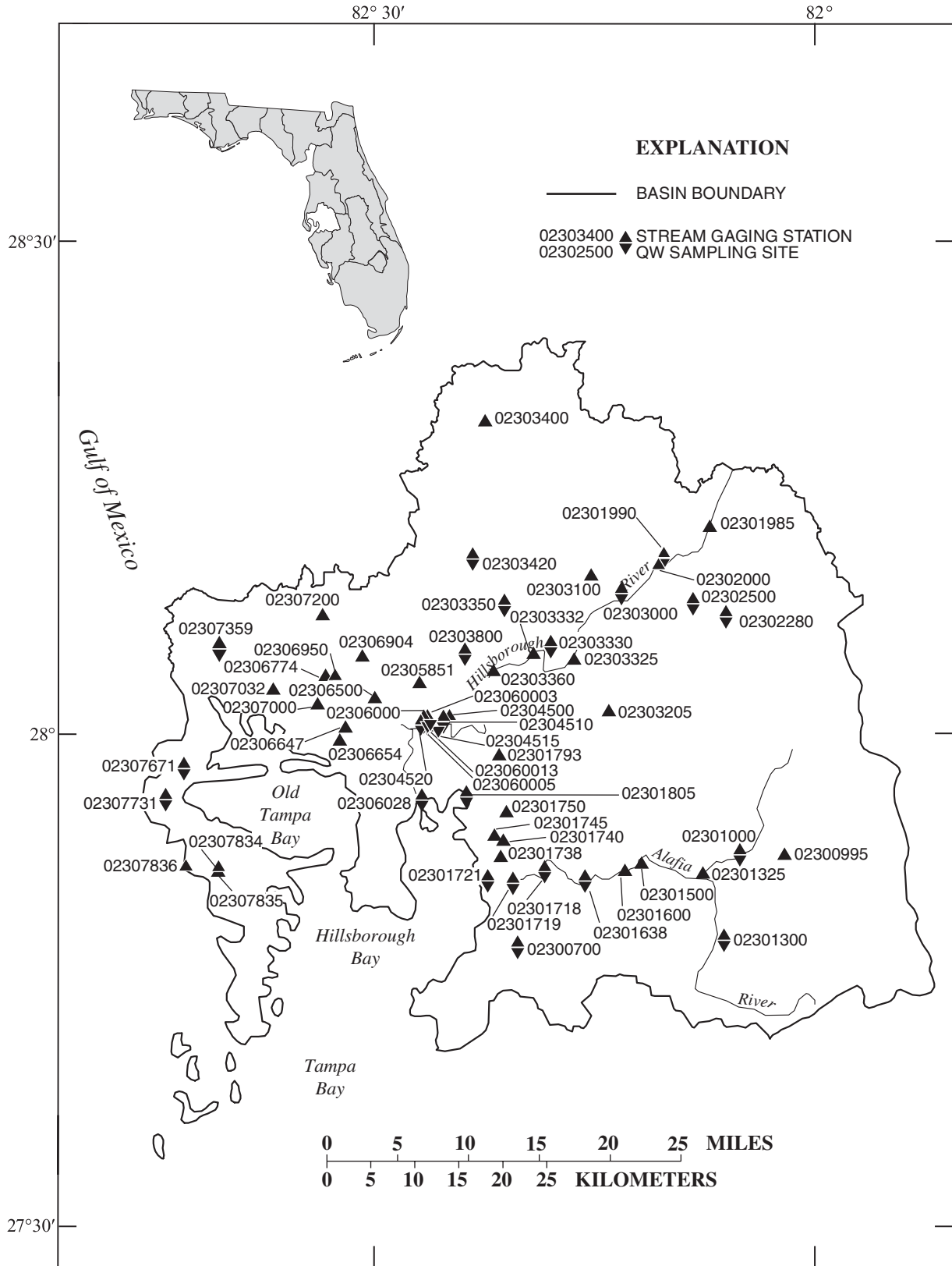


Figure 16.--Location of stream gaging stations in the Alafia and Hillsborough River Basins, Tampa Bay and Coastal area.

TAMPA BAY AND COASTAL AREAS

02300700 BULLFROG CREEK NEAR WIMAUMA, FL

LOCATION.--Lat 27°47'30", long 82°21'08" (1927 North American datum), in SE¹/₄ 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 poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	17	15	6.7	13	21	5.5	e1.6	0.93	478	23	457
2	43	16	15	7.7	11	22	5.3	e1.4	0.84	801	25	130
3	33	16	15	9.1	13	20	7.3	e1.4	0.94	536	30	74
4	28	17	11	9.7	11	24	8.1	e1.2	0.60	169	66	73
5	25	15	9.3	11	9.7	23	5.9	e1.1	0.24	72	81	64
6	24	14	9.7	10	10	19	5.4	e1.0	0.19	50	37	66
7	24	15	9.5	9.3	22	17	6.1	e0.89	0.07	44	38	59
8	24	14	26	9.6	21	16	5.2	0.61	0.25	38	50	39
9	21	14	22	11	22	15	3.9	0.45	0.02	31	49	32
10	19	14	19	11	17	17	4.4	0.20	0.12	26	62	26
11	19	15	15	11	15	17	5.4	0.05	0.01	22	56	24
12	17	16	13	11	13	15	3.9	0.04	0.02	25	35	34
13	17	15	11	13	12	14	5.7	0.03	0.00	56	25	49
14	17	15	10	14	11	13	3.8	0.25	0.00	82	44	46
15	17	13	11	25	10	13	4.9	0.16	0.01	49	180	35
16	17	12	10	19	10	12	8.8	e0.00	0.04	31	151	29
17	17	14	9.1	18	10	9.8	9.9	e0.00	0.15	22	83	24
18	17	15	8.9	16	11	9.6	7.2	0.21	2.1	17	148	21
19	16	16	7.8	14	12	9.3	5.1	14	8.9	24	114	23
20	16	13	7.4	13	12	9.3	4.5	9.6	11	31	66	59
21	26	14	7.0	12	13	9.7	4.6	8.5	14	44	44	75
22	50	14	7.4	9.8	18	9.4	4.7	5.4	38	65	31	54
23	44	14	8.5	9.4	78	7.6	3.1	3.3	36	37	24	41
24	34	12	7.7	10	99	8.5	2.9	3.0	23	30	20	59
25	32	15	6.5	11	75	9.4	2.8	2.1	32	30	19	117
26	29	13	7.4	11	42	8.8	e2.7	2.0	66	31	19	109
27	23	13	7.4	13	29	24	e2.4	1.7	137	23	47	81
28	20	14	8.3	14	26	15	e2.1	1.7	231	31	144	55
29	20	15	8.6	11	---	9.4	e2.0	1.5	247	28	163	42
30	18	16	7.2	10	---	8.6	e1.8	2.1	407	23	400	33
31	16	---	6.9	12	---	7.2	---	1.2	---	18	682	---
TOTAL	794	436	337.6	372.3	645.7	433.6	145.4	66.69	1257.43	2964	2956	2030
MEAN	25.6	14.5	10.9	12.0	23.1	14.0	4.85	2.15	41.9	95.6	95.4	67.7
MAX	71	17	26	25	99	24	9.9	14	407	801	682	457
MIN	16	12	6.5	6.7	9.7	7.2	1.8	0.00	0.00	17	19	21
CFSM	0.88	0.50	0.37	0.41	0.79	0.48	0.17	0.07	1.44	3.29	3.28	2.33
IN.	1.02	0.56	0.43	0.48	0.83	0.55	0.19	0.09	1.61	3.79	3.78	2.60

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2002, BY WATER YEAR (WY)

MEAN	31.1	19.9	25.5	33.5	41.7	50.7	25.7	20.5	39.6	52.7	67.7	104
MAX	102	92.3	251	133	233	191	108	86.8	215	187	188	342
(WY)	1996	1998	1998	1996	1998	1987	1958	1991	1982	1991	1995	2001
MIN	5.94	1.17	0.56	2.51	1.86	12.6	4.85	1.39	3.18	10.8	9.28	8.52
(WY)	1979	1957	1957	1957	1957	2000	2002	2000	1979	1979	1993	1958

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1957 - 2002

ANNUAL TOTAL	20485.55	12438.72	
ANNUAL MEAN	56.1	34.1	42.6
HIGHEST ANNUAL MEAN			90.0
LOWEST ANNUAL MEAN			21.9
HIGHEST DAILY MEAN	3730	Sep 15	801
LOWEST DAILY MEAN	0.02	May 31	0.00
ANNUAL SEVEN-DAY MINIMUM	0.07	May 30	0.03
MAXIMUM PEAK FLOW			917
MAXIMUM PEAK STAGE			27.01
ANNUAL RUNOFF (CFSM)	1.93		1.17
ANNUAL RUNOFF (INCHES)	26.19		15.90
10 PERCENT EXCEEDS	88		65
50 PERCENT EXCEEDS	14		15
90 PERCENT EXCEEDS	2.4		1.6
			5.6

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02300700 BULLFROG CREEK NEAR WIMAUMA, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV													
28...	1356	18.63	15	--	9.1	7.5	457	22.0	--	--	--	--	--
JAN													
22...	1351	18.44	10	--	8.3	7.5	415	21.1	--	--	--	--	--
MAR													
28...	1133	18.77	16	60	8.7	8.4	424	21.3	36.0	17.0	8.50	13.0	26.0
JUL													
10...	1158	19.22	27	--	6.8	6.4	397	25.6	--	--	--	--	--
SEP													
10...	1314	19.21	27	120	6.8	6.5	332	25.3	28.0	12.0	10.0	12.0	25.0
18...	0901	18.98	21	--	7.0	6.6	334	26.0	--	--	--	--	--

Date	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV											
28...	--	--	--	--	E.40	.02	.190	<.01	.210	E.21	--
JAN											
22...	--	--	--	--	1.4	.12	.330	.02	.190	.38	--
MAR											
28...	.3	6.90	110	277	.70	.04	.080	<.01	.190	.20	830
JUL											
10...	--	--	--	--	.90	.09	.230	.02	.360	.35	--
SEP											
10...	.3	8.90	68.0	232	1.0	.07	.200	.02	.420	.45	510
18...	--	--	--	--	.80	.05	.150	.01	.340	.38	--

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

ALAFIA RIVER BASIN

02300995 THIRTYMILE CREEK NEAR NICHOLS, FL

LOCATION.--Lat 27°52'47", long 82°02'56" (1927 North American datum), in SW $\frac{1}{4}$ sec.7, T.30 S., R.23 E., Polk County, Hydrologic Unit 03100204, on downstream side of bridge, 3.8 mi south of Nichols, and 4.6 mi southwest of Mulberry.

DRAINAGE AREA.--3.27 mi².

PERIOD OF RECORD.--October 2000 to current year (gage heights only).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.55 ft, Sept. 14, 2001; minimum, 8.71 ft, June 5, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.33 ft, Aug. 3; minimum, 9.50 ft, May 18, 19.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.47	10.63	10.53	10.49	10.47	10.83	10.34	10.26	9.94	---	10.76	11.11
2	11.36	10.62	10.49	10.58	10.46	10.85	10.32	10.22	10.06	---	11.23	11.04
3	11.30	10.62	10.48	10.64	10.44	10.96	10.40	10.19	10.08	---	11.63	10.93
4	11.22	10.63	10.46	10.57	10.42	11.04	10.51	10.16	10.01	---	11.82	10.84
5	11.26	10.70	10.45	10.53	10.40	10.83	10.53	10.12	9.95	11.72	11.71	11.10
6	11.16	10.62	10.45	10.64	10.39	10.82	10.46	10.09	9.90	11.73	11.40	11.26
7	11.09	10.57	10.46	10.69	10.61	10.78	10.41	10.05	9.92	11.48	11.46	11.13
8	11.18	10.55	10.49	10.59	10.67	10.71	10.39	10.02	10.52	11.34	11.69	11.02
9	11.02	10.53	10.57	10.53	10.59	10.75	10.38	9.97	10.37	11.34	11.50	10.92
10	10.93	10.52	10.54	10.51	10.61	10.68	10.37	9.92	10.29	11.34	11.34	10.95
11	10.98	10.53	10.61	10.50	10.65	10.61	10.35	9.86	10.23	11.22	11.11	11.35
12	10.85	10.60	10.62	10.49	10.59	10.67	10.40	9.82	10.18	11.47	11.00	11.32
13	11.12	10.56	10.65	10.50	10.53	10.61	11.07	9.77	10.14	11.80	11.01	11.36
14	10.95	10.57	10.58	10.55	10.52	10.56	10.99	9.72	10.14	11.84	10.98	11.23
15	11.17	10.57	10.53	10.79	10.55	10.52	11.53	9.67	10.21	11.74	11.51	11.33
16	10.98	10.54	10.51	10.71	10.51	10.50	11.69	9.61	10.27	11.48	11.33	11.14
17	10.91	10.52	10.49	10.63	10.48	10.51	11.35	9.57	10.31	11.23	11.12	11.04
18	10.90	10.54	10.57	10.59	10.45	10.57	11.14	9.53	10.79	11.21	11.28	11.01
19	10.90	10.58	10.53	10.62	10.50	10.51	10.81	10.19	11.03	10.99	11.57	11.00
20	10.86	10.55	10.49	10.68	10.51	10.48	10.80	10.35	11.07	---	11.42	10.95
21	10.90	10.61	10.45	10.60	10.47	10.44	10.75	10.25	10.83	---	11.22	10.94
22	11.00	10.62	10.44	10.56	10.95	10.42	10.57	10.19	10.87	---	11.12	10.84
23	10.92	10.57	10.44	10.54	11.82	10.38	10.49	10.13	11.01	---	11.02	10.93
24	10.95	10.57	10.45	10.56	11.92	10.37	10.47	10.07	11.67	---	11.01	10.91
25	10.89	10.53	10.45	10.52	11.64	10.35	10.41	10.02	---	---	10.98	11.30
26	10.83	10.51	10.53	10.53	11.39	10.35	10.37	9.96	---	---	10.91	11.21
27	10.78	10.50	10.65	10.61	11.05	10.38	10.41	9.98	---	---	11.11	11.06
28	10.72	10.55	10.57	10.55	10.86	10.36	10.36	10.15	---	---	11.15	10.91
29	10.69	10.61	10.54	10.55	---	10.32	10.32	10.08	---	---	11.06	10.89
30	10.64	10.59	10.51	10.52	---	10.30	10.28	10.03	---	---	11.09	10.80
31	10.66	---	10.50	10.49	---	10.30	---	9.98	---	10.82	11.19	---
MEAN	10.99	10.57	10.52	10.58	10.73	10.57	10.62	10.00	---	---	11.25	11.06
MAX	11.47	10.70	10.65	10.79	11.92	11.04	11.69	10.35	---	---	11.82	11.36
MIN	10.64	10.50	10.44	10.49	10.39	10.30	10.28	9.53	---	---	10.76	10.80

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV 28...	1208	1.94	25	--	8.1	8.0	662	19.5	--	--	--	--	--
JAN 22...	1206	2.11	34	--	8.2	7.2	695	20.1	--	--	--	--	--
MAR 28...	0821	2.43	44	20	7.5	7.7	1010	21.8	58.0	22.0	15.0	100	120
MAY 14...	1315	1.62	8.8	--	7.8	7.5	910	24.3	--	--	--	--	--
JUL 09...	1235	3.97	170	--	6.1	6.8	594	26.0	--	--	--	--	--
SEP 09...	1325	4.34	236	120	6.4	6.4	495	26.5	34.0	10.0	7.00	45.0	43.0

Date	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	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)
NOV 28...	--	--	--	--	E.50	.01	1.50	.01	3.10	E3.10	--	--	--
JAN 22...	--	--	--	--	.70	.01	1.20	<.01	3.20	3.30	--	--	--
MAR 28...	2.5	10.0	180	626	1.0	.02	.510	<.01	2.90	2.80	--	--	--
MAY 14...	--	--	--	--	.70	<.01	.890	<.01	3.20	3.80	--	--	--
JUL 09...	--	--	--	--	1.2	.04	.400	.01	4.00	4.30	--	--	--
SEP 09...	2.6	11.0	82.0	323	1.3	.02	.280	.01	4.60	4.50	256	5	<1.0

Date	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 28...	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--
MAR 28...	--	--	--	--	--	--	210	--
MAY 14...	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--
SEP 09...	2	1.1	1010	<1	<.1	4.3	94.0	4

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

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL

LOCATION.--Lat 27°47'47", long 82°07'04" (1927 North American datum), 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 except those for estimated daily discharges, which are poor. Maximum discharge, 291 ft³/s Oct. 1, gage height 14.48 ft, occurred on recession following peak of Sept. 15, 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	26	17	16	16	65	15	11	2.2	87	85	232
2	217	24	16	16	16	52	16	8.8	1.7	248	75	202
3	177	24	16	21	17	38	19	6.1	1.3	248	80	171
4	148	26	15	20	17	33	22	4.5	0.89	212	97	143
5	125	27	14	18	17	30	16	4.0	0.85	212	109	123
6	108	26	13	16	18	27	11	4.6	0.72	179	95	109
7	96	25	14	17	19	27	8.7	6.5	0.74	148	131	101
8	89	29	16	17	24	28	7.0	5.8	0.65	134	193	94
9	82	32	19	18	25	27	5.7	3.7	0.62	125	171	87
10	74	28	18	e20	23	24	4.8	2.4	1.5	116	148	84
11	64	23	17	e18	22	22	4.2	1.6	3.0	106	129	114
12	58	21	16	e18	22	24	5.1	1.1	3.4	146	112	114
13	57	19	16	e19	23	34	39	0.82	4.8	202	105	128
14	52	18	15	e19	25	36	61	0.67	7.3	222	117	118
15	50	18	14	e36	25	31	114	0.53	9.7	219	130	111
16	43	20	14	38	22	26	82	0.42	11	193	118	106
17	37	19	14	35	19	20	44	0.49	12	162	102	93
18	33	18	15	30	16	16	28	0.53	30	133	145	80
19	31	17	15	25	15	15	21	5.5	34	138	202	70
20	32	16	14	22	14	16	16	8.2	28	151	200	63
21	35	15	13	20	12	16	13	5.8	24	137	200	55
22	42	15	12	18	24	15	11	4.5	21	122	187	55
23	45	14	12	18	88	14	9.1	3.3	23	111	168	52
24	69	15	12	18	138	13	8.1	2.5	24	102	152	57
25	69	16	12	18	137	11	8.8	1.8	42	94	133	84
26	58	15	15	16	114	13	9.2	1.4	62	86	114	120
27	e48	14	19	16	93	14	9.3	1.2	66	81	126	129
28	e38	14	22	16	78	13	11	1.1	55	83	140	128
29	e34	15	21	17	---	9.3	15	1.0	57	91	141	120
30	e31	17	19	17	---	8.8	13	3.2	65	95	186	114
31	e30	---	17	17	---	13	---	3.2	---	104	240	---
TOTAL	2340	606	482	630	1079	731.1	647.0	106.26	593.37	4487	4331	3257
MEAN	75.5	20.2	15.5	20.3	38.5	23.6	21.6	3.43	19.8	145	140	109
MAX	268	32	22	38	138	65	114	11	66	248	240	232
MIN	30	14	12	16	12	8.8	4.2	0.42	0.62	81	75	52
AC-FT	4640	1200	956	1250	2140	1450	1280	211	1180	8900	8590	6460

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	110	61.8	58.8	79.2	85.3	83.2	62.6	41.4	78.0	133	184	188
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	8.80	3.74	5.36	6.99	6.07	6.53	2.59	0.31	6.07	10.1	8.40	23.0
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000	1990

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1964 - 2002

ANNUAL TOTAL	22818.73	19289.73	
ANNUAL MEAN	62.5	52.8	97.1
HIGHEST ANNUAL MEAN			199
LOWEST ANNUAL MEAN			31.0
HIGHEST DAILY MEAN	1040	Sep 15	268
LOWEST DAILY MEAN	0.00	Many Days	0.42
ANNUAL SEVEN-DAY MINIMUM	0.00	May 15	0.65
MAXIMUM PEAK FLOW			257
MAXIMUM PEAK STAGE			14.17
ANNUAL RUNOFF (AC-FT)	45260	38260	70370
10 PERCENT EXCEEDS	203	138	216
50 PERCENT EXCEEDS	15	23	55
90 PERCENT EXCEEDS	2.1	4.7	13

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV 28...	1251	10.27	14	8.3	7.3	376	21.0	E.60	<.01	.640	.01	.700	E.70
JAN 22...	1254	10.36	18	7.7	7.2	410	20.9	.90	.03	.520	<.01	.360	.33
MAR 28...	0940	10.17	14	8.0	8.2	465	21.4	.70	.04	.270	<.01	.540	.56
MAY 14...	1411	9.20	.67	12.3	8.9	328	31.9	.80	.05	.340	<.01	.780	.85
JUL 09...	1309	12.53	125	4.4	6.2	401	25.6	1.1	.04	.200	.01	.920	.98
SEP 09...	1425	11.91	87	4.8	6.9	342	27.2	.90	.03	.170	.01	.960	1.00

Remark codes used in this report:

< -- Less than
E -- Estimated value

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301325 ALAFIA RIVER AT ALDERMAN'S FORD PARK AT PINECREST, FL

LOCATION.--Lat 27°51'46", long 82°08'30" (1927 North American datum), in NE $\frac{1}{4}$ sec.19, T.30 S., R.22 E., Hillsborough County, Hydrologic Unit 03100204, downstream from the confluence of North and South Prongs of the Alafia River, on left bank on wooden platform, 900 ft upstream from State Highway 39 bridge, and 1.0 mi north of Pinecrest.

DRAINAGE AREA.--261 mi².

PERIOD OF RECORD.--May 2000 to September 2002 (gage heights only), incomplete (discontinued).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 40.27, Sept. 15, 2001; minimum, 25.43 ft, June 6, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 33.46 ft, June 26; minimum, 25.62 ft, May 16.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.64	26.85	26.40	26.38	26.40	27.42	26.48	26.03	26.02	30.79	28.46	31.03
2	29.92	26.82	26.38	26.38	26.38	27.23	26.48	25.97	25.96	30.65	28.26	30.81
3	29.36	26.80	26.37	26.58	26.38	27.07	26.54	25.94	25.86	30.92	28.54	30.15
4	28.94	26.79	26.36	26.58	26.36	26.99	26.75	25.92	25.82	30.76	29.32	29.42
5	28.60	26.80	26.34	26.51	26.34	27.01	26.64	25.84	25.80	30.40	29.50	29.02
6	28.33	26.79	26.33	26.54	26.34	26.89	26.45	25.81	25.81	30.10	28.98	29.65
7	28.14	26.72	26.35	26.51	26.40	26.82	26.30	25.82	25.84	29.63	29.09	29.80
8	28.17	26.70	26.37	26.48	26.72	26.81	26.22	25.85	26.55	29.14	30.96	29.20
9	27.95	26.73	26.46	26.45	26.71	26.78	26.14	25.82	26.58	28.91	30.03	28.81
10	27.75	26.71	26.47	26.56	26.62	26.74	26.08	25.78	26.35	29.01	29.28	28.51
11	27.60	26.63	26.47	26.55	26.61	26.67	26.04	25.75	26.27	28.96	28.72	28.71
12	27.46	26.57	26.49	26.51	26.61	26.62	26.05	25.71	26.21	29.05	28.32	30.33
13	27.39	26.53	26.46	26.53	26.57	26.76	26.67	25.68	26.19	30.01	28.01	31.05
14	27.32	26.51	26.43	26.57	26.57	26.85	26.97	25.68	26.20	30.54	27.90	30.88
15	27.27	26.53	26.40	26.84	26.58	26.80	27.80	25.66	26.27	30.37	28.26	29.93
16	27.24	26.53	26.38	26.98	26.55	26.72	27.97	25.64	26.35	29.85	28.52	29.32
17	27.12	26.51	26.37	26.86	26.49	26.63	27.42	25.65	26.43	29.55	28.53	28.86
18	27.04	26.48	26.40	26.77	26.43	26.56	26.99	25.65	27.15	29.15	28.48	28.47
19	26.98	26.47	26.44	26.68	26.38	26.51	26.77	25.91	27.75	28.64	30.28	28.17
20	26.96	26.46	26.41	26.61	26.35	26.49	26.60	26.23	27.29	28.72	32.20	27.98
21	27.02	26.46	26.35	26.56	26.33	26.53	26.55	26.07	27.08	28.68	30.31	27.78
22	27.18	26.45	26.31	26.52	26.41	26.55	26.45	25.96	26.88	28.47	29.35	27.62
23	27.21	26.42	26.28	26.50	28.23	26.55	26.39	25.87	26.96	28.33	28.88	27.49
24	27.31	26.39	26.28	26.48	29.72	26.54	26.26	25.83	28.23	28.17	28.50	27.91
25	27.39	26.40	26.30	26.46	29.80	26.52	26.20	25.76	31.12	27.97	28.21	29.23
26	27.31	26.40	26.37	26.43	28.95	26.52	26.09	25.73	33.20	27.95	28.00	30.32
27	27.17	26.40	26.42	26.41	28.11	26.56	26.05	25.72	32.59	28.03	28.48	30.03
28	27.10	26.39	26.47	26.40	27.65	26.57	26.08	25.86	32.39	28.18	29.10	29.40
29	27.01	26.38	26.46	26.43	---	26.52	26.09	25.81	31.55	27.95	29.10	28.90
30	26.92	26.41	26.44	26.45	---	26.47	26.09	25.78	30.72	27.78	29.39	28.54
31	26.88	---	26.40	26.43	---	26.45	---	25.95	---	27.94	30.44	---
MEAN	27.70	26.57	26.39	26.55	26.96	26.71	26.52	25.83	27.58	29.18	29.08	29.24
MAX	30.64	26.85	26.49	26.98	29.80	27.42	27.97	26.23	33.20	30.92	32.20	31.05
MIN	26.88	26.38	26.28	26.38	26.33	26.45	26.04	25.64	25.80	27.78	27.90	27.49

ALAFIA RIVER BASIN

02301500 ALAFIA RIVER AT LITHIA, FL

LOCATION.--Lat 27°52'19", long 82°12'41" (1927 North American datum), in NE¼ 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.

PERIOD OF RECORD.--October 1932 to current year. Monthly discharge only prior to February 1933, published in WSP 1304.

REVISED RECORDS.--WSP 782: 1933(M). WSP 1234: Drainage area. WSP 1274: 1933-35, 1939, 1945, 1947-50.

GAGE.--Water-stage recorder. Datum of gage is 7.00 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 8, 1939, nonrecording gage at site 200 ft upstream; Aug. 8, 1939, to Sept. 5, 1963, water-stage recorder at site 60 ft downstream; Sept. 6, 1963, to Oct. 14, 1965, water-stage recorder at site 50 ft downstream. Prior to Oct. 14, 1965, at datum 2.86 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge from rating curve extended above 21,000 ft³/s. Maximum gage height from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e642	117	57	60	60	179	67	30	28	612	257	624
2	e600	112	55	61	57	154	69	27	26	578	303	606
3	457	110	54	74	56	135	73	24	21	572	299	532
4	400	108	55	78	54	124	97	24	18	544	390	432
5	358	e105	53	79	52	126	96	20	17	507	412	367
6	327	100	53	78	51	113	72	17	16	471	374	404
7	304	92	54	73	56	101	57	17	17	412	367	465
8	312	90	57	68	90	99	49	18	46	e355	641	396
9	288	94	64	76	96	95	43	18	69	e260	548	343
10	261	94	67	80	84	93	38	16	54	e287	416	307
11	242	86	64	77	81	85	35	15	44	e275	338	308
12	224	79	65	71	81	78	35	13	41	e316	280	489
13	207	73	64	72	76	88	72	11	40	419	245	635
14	201	72	62	78	74	105	130	11	40	502	229	624
15	191	71	60	114	76	100	188	11	46	490	277	580
16	192	70	59	134	73	90	228	10	51	430	307	450
17	168	69	57	118	69	79	190	9.9	64	398	325	377
18	152	66	59	105	63	70	130	9.7	113	375	417	324
19	144	63	65	93	58	e66	98	15	198	321	470	280
20	138	63	62	83	53	61	77	33	166	299	738	259
21	142	64	56	77	50	64	69	30	136	312	606	232
22	182	64	52	73	52	68	62	24	119	283	413	211
23	198	63	52	69	208	69	53	20	109	268	349	193
24	197	57	52	65	429	68	47	17	201	251	299	223
25	219	57	53	65	448	67	41	15	515	226	264	381
26	209	59	56	61	367	68	35	13	806	236	247	566
27	188	59	62	60	263	72	31	13	840	249	267	538
28	167	58	66	59	208	75	32	14	794	238	347	437
29	140	55	66	59	---	72	33	17	728	214	369	372
30	129	57	65	64	---	66	33	18	626	191	412	321
31	121	---	62	62	---	64	---	23	---	197	533	---
TOTAL	7700	2327	1828	2386	3385	2794	2280	553.6	5989	11088	11739	12276
MEAN	248	77.6	59.0	77.0	121	90.1	76.0	17.9	200	358	379	409
MAX	642	117	67	134	448	179	228	33	840	612	738	635
MIN	121	55	52	59	50	61	31	9.7	16	191	229	193
MED	201	71	59	73	74	79	64	17	59	316	349	389
AC-FT	15270	4620	3630	4730	6710	5540	4520	1100	11880	21990	23280	24350
CFSM	0.74	0.23	0.18	0.23	0.36	0.27	0.23	0.05	0.60	1.07	1.13	1.22
IN.	0.86	0.26	0.20	0.26	0.38	0.31	0.25	0.06	0.67	1.23	1.30	1.36

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2002, BY WATER YEAR (WY)

MEAN	344	183	188	235	272	300	193	126	287	513	617	733
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	31.8	38.7	33.1	35.4	25.0	9.66	27.0	80.6	138	74.5
(WY)	1941	1941	2001	2001	2001	1935	1945	2001	1951	1956	1989	1990

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1933 - 2002

ANNUAL TOTAL	83989.5	64345.6	
ANNUAL MEAN	230	176	333
HIGHEST ANNUAL MEAN			845
LOWEST ANNUAL MEAN			121
HIGHEST DAILY MEAN	3710	Sep 16	40800
LOWEST DAILY MEAN	7.0	May 25	4.1
ANNUAL SEVEN-DAY MINIMUM	7.4	May 23	4.2
MAXIMUM PEAK FLOW			45900
MAXIMUM PEAK STAGE		9.06	28.50
ANNUAL RUNOFF (AC-FT)	166600	127600	241100
ANNUAL RUNOFF (CFSM)	0.69	0.53	0.99
ANNUAL RUNOFF (INCHES)	9.33	7.15	13.50
10 PERCENT EXCEEDS	659	434	714
50 PERCENT EXCEEDS	59	85	172
90 PERCENT EXCEEDS	13	30	54

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301600 LITHIA SPRINGS NEAR LITHIA, FL

LOCATION.--Lat 27°52'00", long 82°13'50" (1927 North American datum), in SW¹/₄ 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.

PERIOD OF RECORD.--1934, 1935, 1941, 1943, 1946, 1954, 1960 (one discharge measurement in each year); April 1956 to September 1958; June 1966 to current year (discharge measurements only).

GAGE.--Nonrecording gage.

REMARKS.--Total discharge of springs consists of discharge from a major spring and a minor spring into the Alafia River through separate runs and diversion by pumpage from the major spring pool. Discharge is affected by backwater from the Alafia River during medium and high stages. Results of miscellaneous temperature observations prior to October 1977 are available in files of the Geological Survey.

COOPERATION.--Diversion figures were provided by Cargill Fertilizer, Inc. Diversion figure published is an estimated daily average derived from reported monthly totals.

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 2001 TO SEPTEMBER 2002

Date	Time	Major Spring Instantaneous Discharge (cfs)	Time	Minor Spring Instantaneous Discharge (cfs)	Total Flow Measured (cfs)	Diversion by pumping (cfs)
Nov. 05	1400	55	1507	10.2	65	7.5
Jan. 10	1025	35	1120	8.9	44	6.3
Mar. 28	0900	26	1020	7.0	33	7.6
May 20	1000	11	1100	7.0	18	8.1
July 12	1035	34	1215	6.3	40	7.0

ALAFIA RIVER BASIN

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL

LOCATION.--Lat 27°51'31", long 82°16'26" (1927 North American datum), in NE $\frac{1}{4}$ sec.23, T.30 S., R.20 E., Hillsborough County, Hydrologic Unit 03100204, on right bank, on wooden platform, 1,300 ft downstream from Bell Shoals bridge, 0.7 mi upstream from Bell Creek, 3.6 mi east of Riverview, and 10 mi upstream from mouth.
DRAINAGE AREA.--376 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--April 1998 to current year (gage heights only).

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.03 ft, Sept. 14, 2001; minimum, 0.76 ft below NGVD, May 31, June 2, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.18 ft, July 2; minimum, 0.62 ft below NGVD, May 17.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.69	2.08	2.06	0.34	2.40	0.05	2.16	0.03	1.51	0.01	1.02	0.47
2	2.64	1.75	2.33	0.32	2.07	0.04	1.87	0.02	1.25	0.00	2.73	0.47
3	2.58	1.56	2.51	0.32	1.98	0.03	2.43	0.08	1.32	0.00	2.39	0.44
4	2.53	1.37	2.20	0.30	1.57	0.02	0.52	0.10	0.81	-0.01	0.73	0.31
5	2.60	1.27	1.84	0.30	1.45	0.01	1.21	0.12	1.12	-0.04	0.62	0.30
6	2.70	1.16	1.64	0.29	1.34	0.00	2.69	0.29	2.26	-0.04	1.22	0.29
7	2.95	1.02	1.72	0.26	1.42	0.01	1.28	0.11	2.12	0.02	1.46	0.24
8	1.93	1.02	1.95	0.24	1.94	0.11	0.66	0.05	1.24	0.11	1.22	0.22
9	1.70	0.89	1.73	0.27	---	---	1.20	0.05	1.55	0.19	1.18	0.21
10	1.92	0.82	1.82	0.25	---	---	1.80	0.09	1.56	0.15	1.02	0.20
11	2.32	0.79	2.21	0.31	2.03	0.06	1.68	0.09	1.58	0.13	1.36	0.17
12	2.55	0.73	2.03	0.22	2.04	0.07	2.19	0.09	1.67	0.12	1.89	0.14
13	3.11	0.86	1.87	0.16	2.24	0.06	2.29	0.07	1.48	0.10	2.41	0.18
14	3.35	0.81	1.94	0.15	2.36	0.04	2.07	0.08	1.29	0.09	1.44	0.22
15	2.37	0.62	1.96	0.15	2.28	0.04	2.42	0.22	1.34	0.10	1.41	0.20
16	2.37	0.61	1.99	0.15	1.91	0.04	1.31	0.32	1.27	0.10	1.66	0.15
17	1.85	0.52	1.69	0.13	1.98	0.03	1.15	0.26	1.16	0.05	1.29	0.10
18	1.26	0.46	1.78	0.13	2.80	0.05	1.14	0.21	0.85	0.03	1.57	0.05
19	1.59	0.43	2.00	0.11	2.00	0.08	1.45	0.18	1.67	0.02	2.03	0.03
20	2.43	0.42	2.12	0.13	1.64	0.06	1.25	0.15	2.55	0.03	1.98	0.02
21	2.18	0.44	2.24	0.15	0.66	0.02	1.05	0.19	1.84	0.00	1.79	0.02
22	2.22	0.57	1.79	0.19	1.28	0.00	1.02	0.10	1.70	-0.03	1.55	0.02
23	2.44	0.67	1.68	0.28	2.11	0.10	1.30	0.08	1.74	0.15	1.43	0.01
24	2.28	0.80	1.80	0.24	1.85	0.17	1.90	0.05	2.36	1.28	1.62	0.01
25	2.20	0.67	1.80	0.17	1.50	0.01	1.75	0.04	2.45	1.48	1.85	0.00
26	2.02	0.57	1.57	0.15	1.32	0.01	1.73	0.04	2.66	1.23	1.96	-0.01
27	1.09	0.49	1.89	0.08	2.22	0.03	1.80	0.03	2.85	0.72	1.90	0.00
28	0.81	0.44	2.09	0.07	2.61	0.06	1.98	0.02	1.32	0.57	1.69	0.00
29	1.02	0.41	2.25	0.06	2.68	0.10	2.03	0.00	---	---	1.51	-0.03
30	1.21	0.39	2.26	0.05	2.35	0.06	1.90	0.03	---	---	2.26	-0.05
31	1.74	0.36	---	---	2.23	0.04	1.81	0.03	---	---	2.48	-0.05
MONTH	3.35	0.36	2.51	0.05	2.80	0.00	2.69	0.00	2.85	-0.04	2.73	-0.05

ALAFIA RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1998 to current year, incomplete.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located at a gage height of -0.50 ft for the top sensor and a gage height of -1.60 ft for the bottom sensor.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 3,640 microsiemens, June 5, 2000; bottom sensor maximum, 3,530 microsiemens, June 5, 2000; top sensor minimum, 91 microsiemens, Sept. 20, 1998; bottom sensor minimum, 94 microsiemens, Sept. 28, 1998.

TEMPERATURE.--Top sensor maximum, 29.0°C, July 28, 1998; bottom sensor maximum, 29.0°C, July 28, 1998; top sensor minimum, 12.5°C, Jan. 6, 2001; bottom sensor minimum, 12.5°C, Jan. 6, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 774 microsiemens, June 9; bottom sensor maximum, 789 microsiemens, June 9; top sensor minimum, 215 microsiemens, Aug. 20; bottom sensor minimum, 223 microsiemens, Aug. 20.

TEMPERATURE.--Top sensor maximum, 28.5°C, July 18; bottom sensor maximum, 28.5°C, July 18; top sensor minimum, 13.9°C, Jan. 10, 11; bottom sensor minimum, 14.6°C, Jan. 5.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(AT GAGE-HEIGHT OF -0.50 FT)

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	344	330	522	505	490	480	480	470	473	459	494	475
2	358	335	524	511	487	478	482	465	464	453	493	480
3	385	356	521	509	490	477	476	464	467	456	490	481
4	401	382	524	508	484	476	476	464	470	459	488	471
5	415	395	524	502	486	477	473	442	473	463	475	462
6	426	411	519	504	496	481	465	446	471	461	469	455
7	432	416	512	498	495	482	493	455	470	444	469	454
8	430	415	508	495	492	482	497	469	447	431	478	462
9	431	414	508	494	---	---	488	468	443	420	482	474
10	443	426	504	488	---	---	501	471	431	421	485	475
11	450	435	503	486	484	470	494	475	439	421	492	470
12	454	443	509	496	475	464	497	463	450	436	492	474
13	457	445	509	500	481	467	485	462	458	448	499	476
14	464	448	508	487	489	477	491	480	463	450	511	478
15	480	446	492	481	491	474	488	466	469	458	525	503
16	491	477	490	477	496	486	472	453	476	461	536	521
17	482	467	488	475	498	488	461	449	484	471	536	523
18	481	468	483	470	498	484	482	453	493	478	536	522
19	482	471	490	471	499	490	508	475	499	486	548	531
20	486	474	492	483	498	483	515	494	502	490	563	545
21	487	466	490	479	491	476	520	501	505	493	574	556
22	472	455	493	480	485	477	517	499	505	482	594	565
23	470	457	496	480	487	478	512	498	485	422	621	589
24	466	456	494	481	493	481	511	491	422	374	651	616
25	462	431	493	484	497	486	501	481	445	391	666	647
26	451	436	491	477	494	476	494	475	462	443	678	659
27	477	443	487	479	487	475	485	469	499	459	685	664
28	487	468	494	480	483	469	476	466	496	483	690	674
29	498	481	496	487	481	468	478	466	---	---	692	671
30	509	491	495	483	475	463	473	452	---	---	697	680
31	512	501	---	---	477	465	472	456	---	---	717	687
MONTH	512	330	524	470	499	463	520	442	505	374	717	454

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301718 ALAFIA RIVER AT RIVERVIEW, FL

LOCATION.--Lat 27°52'03", long 82°19'12" (1927 North American datum), in SE $\frac{1}{4}$ sec.17, T.30 S., R.20 E., Hillsborough County, Hydrologic Unit 03100204, on right bank on wooden private dock about 0.4 mi upstream from Highway 301 bridge.
DRAINAGE AREA.--414 mi².

GAGE-HEIGHT RECORDS

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.31 ft, Sept. 17, 2000; minimum, 2.43 ft below NGVD, Jan. 10, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.39 ft, Oct. 14; minimum, 2.37 ft below NGVD, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.60	-0.52	2.21	-0.77	2.53	-1.10	2.27	-1.61	1.68	-1.16	0.81	-1.46
2	2.00	-0.33	2.46	-0.77	2.25	-1.38	1.85	-1.34	1.35	-0.88	2.84	-0.55
3	2.17	-0.35	2.62	-0.67	2.08	-1.50	2.46	-1.04	1.44	-0.86	2.48	-0.14
4	2.21	-0.37	2.32	-1.15	1.73	-1.75	0.46	-1.78	0.89	-0.78	0.60	-1.84
5	2.40	-0.12	1.90	-1.22	1.59	-1.55	1.37	-0.72	1.27	-1.52	0.47	-2.37
6	2.59	-0.05	1.72	-0.86	1.45	-1.39	2.85	0.23	2.45	-1.26	1.26	-1.91
7	2.86	-0.33	1.83	-0.72	1.56	-0.92	1.23	-0.63	2.25	-0.09	1.48	-1.32
8	1.67	-0.78	2.07	-0.53	2.09	-0.08	0.74	-1.98	1.38	-1.63	1.26	-1.15
9	1.42	-1.45	1.81	-0.69	1.76	-0.27	1.34	-1.56	1.72	-1.53	1.16	-1.17
10	1.79	-0.89	1.91	-0.48	2.04	-0.34	1.95	-1.49	1.76	-1.35	1.09	-1.39
11	2.34	-0.37	2.32	0.03	2.16	-0.69	1.87	-1.29	1.79	-1.42	1.52	-1.75
12	2.60	-0.16	2.09	-0.33	2.22	-0.97	2.41	-1.45	1.81	-1.23	1.92	-1.02
13	3.18	0.49	1.99	-0.86	2.46	-1.19	2.49	-1.68	1.65	-1.21	2.43	-0.39
14	3.39	0.40	2.00	-0.97	2.53	-0.99	2.35	-1.03	1.36	-1.48	1.52	-0.74
15	2.41	-0.14	2.09	-0.99	2.45	-1.10	2.56	-1.10	1.39	-0.91	1.45	-0.76
16	2.41	-0.30	2.11	-1.17	2.09	-1.36	1.39	-1.44	1.38	-0.69	1.75	-0.71
17	1.86	-1.36	1.78	-1.73	2.16	-0.86	1.24	-1.17	1.23	-0.98	1.36	-0.90
18	1.18	-1.40	1.89	-1.46	2.95	-0.83	1.25	-0.91	0.92	-1.20	1.64	-1.09
19	1.65	-1.12	2.14	-0.93	2.18	-0.48	1.53	-0.75	1.78	-1.03	2.04	-1.09
20	2.46	-0.69	2.28	-0.38	1.80	-1.04	1.36	-0.65	2.62	-0.25	2.08	-0.77
21	2.24	-0.62	2.40	-0.29	0.72	-1.14	1.18	-0.08	2.00	-0.37	1.88	-0.54
22	2.25	-0.39	1.92	-0.03	1.41	-0.54	1.18	-0.69	1.77	-0.76	1.52	-0.82
23	2.48	0.05	1.79	0.19	2.32	0.04	1.48	-1.04	1.34	-1.17	1.55	-1.91
24	2.34	0.36	1.91	0.20	2.00	0.11	2.12	-1.16	1.81	-1.51	1.78	-1.55
25	2.21	-0.14	1.84	0.01	1.62	-0.48	1.90	-1.01	2.19	-1.46	2.03	-1.11
26	1.95	-0.87	1.73	-0.09	1.39	-0.90	1.89	-1.35	2.36	-1.12	2.05	-1.13
27	0.86	-0.90	2.07	-0.57	2.41	-1.24	2.09	-1.70	2.80	-0.86	1.98	-1.11
28	0.65	-0.98	2.33	-0.80	2.85	-0.79	2.19	-1.60	1.10	-1.53	1.75	-1.17
29	0.89	-0.93	2.41	-0.59	2.89	-0.25	2.25	-1.50	---	---	1.59	-1.14
30	1.31	-1.12	2.43	-0.82	2.56	-1.18	2.12	-1.51	---	---	2.22	-0.80
31	1.85	-0.73	---	---	2.36	-1.43	2.02	-1.23	---	---	2.61	-0.52
MONTH	3.39	-1.45	2.62	-1.73	2.95	-1.75	2.85	-1.98	2.80	-1.63	2.84	-2.37

ALAFIA RIVER BASIN

02301718 ALAFIA RIVER AT RIVERVIEW, FL--Continued

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

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located at a gage height of approximately -1.50 ft for the top sensor and a gage height of approximately -4.85 ft for the bottom sensor.

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

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 41,700 microsiemens, May 11, 2001; bottom sensor maximum, 41,800 microsiemens, Nov. 4, 2000; top sensor minimum, 87 microsiemens, Sept. 15, 2001; bottom sensor minimum, 86 microsiemens, Sept. 15, 2001.

TEMPERATURE.--Top sensor maximum, 32.6°C, June 13, 2001; bottom sensor maximum, 32.7°C, June 15, 2001; top sensor minimum, 11.5°C, Jan. 5, 2001; bottom sensor minimum, 13.3°C, Jan. 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 39,700 microsiemens, Mar. 9; bottom sensor maximum, 38,800 microsiemens, June 5; top sensor minimum, 153 microsiemens, Aug. 30; bottom sensor minimum, 247 microsiemens, Aug. 30.

TEMPERATURE.--Top sensor maximum, 31.9°C, Aug. 4; bottom sensor maximum, 30.9°C, June 15; top sensor minimum, 13.8°C, Jan. 8; bottom sensor minimum, 14.1°C, Jan. 9.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(AT GAGE-HEIGHT OF APPROXIMATELY -1.5 FT)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	432	413	23600	3870	29100	8250	27800	7440	23900	5590	3300	872
2	448	419	28900	6140	26500	7560	26600	6760	18500	4630	24600	1640
3	471	427	29100	7070	24900	6280	24800	5840	12000	3820	23900	3580
4	1610	449	28400	6220	26200	5450	11400	2100	7600	2250	5110	2600
5	9930	546	24500	5410	26600	6640	21900	3140	25600	1440	4770	1530
6	10100	672	22300	5340	27900	7500	33300	4590	33100	3670	33100	1590
7	4720	759	28700	6110	29500	7550	14800	5040	33300	7340	37500	3950
8	1150	626	30900	7750	31500	10800	7470	2110	22300	7920	39200	7240
9	1940	597	29800	7510	29600	8260	17800	977	24200	7710	39700	9720
10	8080	665	26400	6970	26100	7740	23000	3520	25500	7190	25500	8810
11	24900	2250	23900	6930	26000	7450	25000	4830	23000	5300	23300	6980
12	27800	4850	19400	6110	28400	8070	25600	4920	18000	3930	31300	7640
13	30400	7900	21200	4680	30000	8230	25300	5900	14600	3060	29100	5880
14	30000	6580	17900	3720	28800	8420	23300	4440	20800	2730	15300	3670
15	18200	3690	16200	3420	27600	7720	28700	4010	19600	3490	13200	2580
16	15400	2000	16200	3110	27600	7090	21400	3920	21900	4310	12200	2600
17	9330	1040	19000	2980	28700	7350	14800	2880	14400	4180	9590	2000
18	7730	827	25100	3670	28100	8280	12700	2360	13400	3720	13000	2000
19	17500	1980	28200	5430	24000	7080	13800	2120	29100	3330	23400	2900
20	25400	3710	32500	8000	24900	6260	11500	1980	35500	5460	20600	4560
21	24100	4420	30800	7650	18600	5310	17600	2120	22900	6910	13000	4370
22	22900	4350	30500	10100	28000	7120	24200	2320	30200	5720	13700	4250
23	29200	5640	31900	16100	32900	7860	26200	4100	29100	9190	10600	1520
24	31200	5110	27000	17400	33100	9580	30100	5840	11300	2030	13400	4560
25	23900	5130	27200	10700	26900	7070	31000	6500	3070	820	14600	6710
26	11800	3280	28000	11400	30000	9080	23200	5860	9150	913	16000	8120
27	8120	2140	29800	10600	29800	8200	20900	5760	7870	881	12900	6980
28	4720	1480	32800	10800	31500	9280	26600	4890	1630	876	10200	4320
29	7770	1010	32700	11000	33600	9880	25700	5590	---	---	7960	3360
30	15100	1220	30200	9300	27600	8330	25300	6200	---	---	7810	3040
31	22300	2830	---	---	25300	8760	23700	6100	---	---	9790	3130
MONTH	31200	413	32800	2980	33600	5310	33300	977	35500	820	39700	872

ALAFIA RIVER BASIN

02301719 ALAFIA RIVER NEAR GIBSONTON, FL

LOCATION.--Lat 27°51'24", long 82°21'28" (1927 North American datum), in SE $\frac{1}{4}$ sec.24, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100204, on left bank, on wooden private dock, 400 ft downstream from Alafia River Marina, 0.8 mi west of Interstate Highway 75, 2.5 mi east of Gibsonton, and 2.8 mi upstream from mouth.

DRAINAGE AREA.--419 mi².

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Interruptions in record were due to malfunction of velocity sensor. Discharge is computed from stage and velocity record. Discharge is affected by tide. Positive discharge values indicate downstream flow and negative discharge values indicate upstream flow. Discharge record poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,970 ft³/s, Sept. 14, 2001; maximum gage height, 5.42 ft, Sept. 17, 2000; minimum discharge, -6,410 ft³/s, Sept. 17, 2000; minimum gage height recorded, 2.15 ft below NGVD, Mar. 5, 2002, but may have been less when gage was dry during extreme low tides;

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,890 ft³/s, June 29; maximum gage height, 3.56 ft, Sept. 5; minimum discharge, -4,290 ft³/s, Jan. 6; minimum gage height recorded, 2.15 ft below NGVD, Mar. 5, but may have been less when gage was dry during extreme low tides.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3040	-1720	1980	-2580	2160	-2550	2200	-2280	2230	-2970	2110	-2560
2	3080	-2640	2300	-2600	2090	-2570	3160	-3490	1860	-2490	2560	-3850
3	3090	-3160	2440	-2890	1920	-2650	2190	-2530	1890	-2770	3370	-2940
4	3290	-3370	2710	-2200	1940	-2270	1610	-1930	2220	-1980	---	---
5	2950	-2840	2520	-2230	1850	-2400	1790	-2500	1950	-2040	---	---
6	2810	-2820	2350	-1890	1750	-2290	3640	-4290	1830	-2190	1610	-1790
7	2960	-3280	1900	-2220	1850	-2420	2760	-3030	1640	-2750	1640	-1770
8	2530	-2720	1920	-2420	1700	-2860	1780	-1790	2570	-1530	1520	-1800
9	2490	-2150	2180	-2910	1960	-2570	1890	-1520	2130	-2190	1690	-2360
10	---	---	2190	-2800	1660	-2540	2110	-2430	2330	-2580	1880	-2440
11	---	---	2210	-2920	2050	-2610	2130	-2400	2230	-2320	1700	-2270
12	2550	-3050	2120	-3020	2180	-2330	2060	-2540	1960	-2490	2910	-3120
13	2770	-3610	2280	-3190	2190	-3350	2450	-2300	2030	-2460	2330	-2640
14	3490	-3100	1960	-3360	2490	-3260	2130	-2500	1970	-2340	2310	-2860
15	2480	-3100	2260	-2820	2400	-2650	2780	-1840	1700	-3360	2480	-2730
16	3100	-3510	2210	-2690	2150	-2730	2400	-2200	1990	-2580	2610	-2900
17	---	---	2050	-1920	1880	-3050	2020	-2820	2230	-2980	---	---
18	---	---	2060	-1910	2620	-2590	2290	-2360	1600	-2240	---	---
19	---	---	2030	-2080	2120	-2520	1890	-2420	1810	-1940	---	---
20	---	---	2050	-2250	2110	-2020	1870	-2090	2530	-2240	2710	-2790
21	2560	-3110	1820	-1770	1570	-1600	1500	-1440	2210	-2990	2550	-1490
22	2450	-2650	1500	-1700	1390	-1740	1720	-2180	2110	-1920	2050	-2100
23	2180	-1740	1270	-1810	1510	-2690	1770	-1690	2140	-2550	1980	-1750
24	2000	-1560	1380	-1920	1790	-3140	1990	-1890	2320	-2060	1800	-1810
25	3260	-1790	2060	-1740	1970	-2050	2290	-2310	2520	-2520	2110	-2400
26	2600	-1760	1750	-2690	1930	-2280	2200	-2710	3030	-3280	2250	-2780
27	1800	-1210	1770	-2450	1860	-2040	2330	-2270	3530	-2430	2140	-3050
28	1930	-2210	1840	-2800	1980	-2330	2220	-2650	2600	-2630	2090	-3040
29	2000	-2390	1870	-3430	2340	-3490	2100	-3010	---	---	2470	-2770
30	2090	-2830	1950	-3290	2160	-2790	2190	-3450	---	---	3190	-3250
31	2230	-3220	---	---	2250	-2520	2040	-2790	---	---	2840	-3180
MONTH	---	---	2710	-3430	2620	-3490	3640	-4290	3530	-3360	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301719 ALAFIA RIVER NEAR GIBSONTON, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2490	-2960	---	---	1910	-2470	4490	-1960	2460	-1310	3320	-1180
2	2060	-1890	---	---	1810	-1730	3520	-469	3640	-2040	3510	-1220
3	---	---	---	---	1490	-2090	3510	-722	3830	-1400	3460	-1870
4	---	---	---	---	1550	-2540	3480	-1620	3650	-1690	3480	-2820
5	---	---	---	---	2130	-2670	3580	-1860	3700	-1720	3960	-2920
6	---	---	---	---	2320	-2510	3660	-2370	3740	-1740	3820	-2860
7	---	---	---	---	2620	-2360	3420	-2300	4200	-2600	4120	-2900
8	---	---	---	---	2820	-2960	3050	-2300	3960	-2100	3650	-2990
9	---	---	---	---	2700	-2700	3630	-2730	3960	-2030	3760	-2920
10	---	---	2110	-2880	2950	-2420	3540	-3050	4170	-2180	2980	-3200
11	---	---	2450	-3110	2520	-2150	4760	-3810	2880	-2450	3230	-3110
12	---	---	2030	-3040	2780	-2630	3790	-2920	2960	-3110	2900	-2740
13	---	---	2320	-2570	2980	-2700	4480	-2590	2830	-3580	4530	-645
14	---	---	2070	-2440	3020	-2510	3810	-1730	3030	-2670	2970	-1390
15	---	---	2250	-2430	2960	-2420	2920	-2100	2840	-2630	3470	-933
16	---	---	2880	-2480	2050	-2180	2790	-1810	2590	-2160	3510	-1550
17	---	---	2440	-2170	2970	-2650	3170	-2250	3200	-2300	3070	-1790
18	---	---	2010	-1910	2930	-3100	2940	-2670	3210	-1630	3280	-2990
19	---	---	2390	-2460	3020	-2580	3260	-2070	4540	-2090	3140	-2990
20	---	---	2080	-2030	2810	-2890	4090	-1830	4070	-3080	3000	-2930
21	---	---	1980	-1960	2410	-2920	3980	-1890	3660	-2820	3470	-3410
22	---	---	1980	-1890	2540	-2530	3730	-2560	3810	-2840	2770	-3180
23	---	---	1950	-2380	2920	-2650	3790	-2340	3240	-3420	2660	-2940
24	---	---	2630	-2810	3050	-2790	3460	-2610	3310	-3030	2480	-2930
25	---	---	2430	-3710	2980	-2540	3220	-2870	3770	-2880	2720	-2540
26	---	---	2450	-3140	4540	-2250	3420	-3370	3240	-2540	2820	-3510
27	---	---	2520	-2610	4790	-1570	4030	-2530	3130	-2630	3190	-1350
28	---	---	2550	-2380	4410	-1570	2990	-2860	3190	-3230	3230	-1440
29	---	---	2310	-2660	4890	-1270	4800	-2770	2840	-2190	2810	-1480
30	---	---	3330	-1870	4150	-1290	3050	-2530	4180	-687	2790	-1380
31	---	---	2470	-2590	---	---	2550	-2500	4240	-2120	---	---
MONTH	---	---	---	---	4890	-3100	4800	-3810	4540	-3580	4530	-3510

ALAFIA RIVER BASIN

02301719 ALAFIA RIVER NEAR GIBSONTOWN, FL--Continued

WATER-QUALITY RECORDS

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

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

REMARKS.--Interruptions in record were due to extreme low tides.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 49,400 microsiemens, June 19, 2001; minimum, 182 microsiemens, Sept. 15, 2001.

TEMPERATURE.--Maximum, 33.8°C, June 17, 2001; minimum, 10.3°C, Jan. 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 48,500 microsiemens, June 12; minimum, 634 microsiemens, July 3.

TEMPERATURE.--Maximum, 32.8°C, July 30; minimum, 12.0°C, Jan. 8.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR BOTTOM)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25200	2200	36000	17600	40600	21000	41700	19300	38300	17000	30700	11700
2	29700	2900	38300	18700	40000	19100	41700	23700	35900	19000	37400	25000
3	29200	4150	39700	21700	40300	18500	39300	16100	33400	16900	34700	26100
4	30600	8190	39300	18500	41200	19400	31800	13100	31000	11400	---	---
5	31100	10300	40800	17000	40700	20400	39600	21800	41700	7880	---	---
6	32000	8990	40000	19300	41500	22000	42200	17900	43500	17500	34400	19500
7	28300	7610	40900	23100	40800	24900	30300	17700	43300	28200	35100	17800
8	29500	6910	41200	21900	41000	22800	39700	10800	41500	13900	35600	20900
9	34000	6790	39100	15700	37000	23600	41400	12200	40700	18800	35400	19800
10	36600	11900	37000	18000	37000	22400	41700	14700	42100	18000	29500	14000
11	37000	19500	36700	20200	39400	19300	42400	17700	40300	15200	32400	12500
12	37200	19100	35900	17600	40300	20600	41400	16600	39800	15400	33300	19000
13	36400	21400	37700	17200	40500	21400	41600	15000	37000	12200	31200	16400
14	35700	14400	36000	15800	41300	23300	42100	20000	40500	13600	27300	15000
15	30800	12800	36700	11900	40200	21200	41700	15400	39200	16100	26700	13500
16	33500	15700	35400	11100	40100	19300	41500	16600	38300	12200	26900	12900
17	34200	9530	38000	12200	39800	20500	38200	13900	34300	13700	26600	13100
18	32900	8100	39400	14400	40300	17000	38400	11100	38600	14500	28500	13900
19	36800	13000	40500	18900	36200	20200	37200	18800	41900	17300	42400	13700
20	37200	18400	41100	18000	35600	16100	32700	9640	43200	20900	41100	18600
21	37100	20100	38100	22100	36200	15800	34200	13200	37600	24000	36000	15400
22	37500	18700	38300	21200	39200	27800	40200	11600	42000	16200	41200	10000
23	38700	14400	38500	22600	40700	31300	40200	17500	40400	18700	42200	14500
24	36500	10900	37400	23500	40500	18600	39800	16900	37300	12400	43300	17000
25	34200	7570	37200	24500	37800	21700	38400	18400	39300	7200	42700	24000
26	30000	9800	37300	24400	37900	15700	38500	16900	40100	18900	42700	24100
27	29400	8400	38300	22100	42000	18500	41200	16300	36300	5630	40900	20300
28	33200	6990	39400	23900	42200	24300	41600	18500	28200	3510	39000	18400
29	33500	8500	41000	24800	42800	21300	41100	19000	---	---	38900	16800
30	34700	9420	39900	23100	39000	19400	40500	20200	---	---	38800	17300
31	36300	16900	---	---	40500	19500	40000	21100	---	---	37900	17200
MONTH	38700	2200	41200	11100	42800	15700	42400	9640	43500	3510	---	---

ALAFIA RIVER BASIN

02301719 ALAFIA RIVER NEAR GIBSONTOWN, FL--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR BOTTOM)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	35000	16300	42000	15600	43500	31800	33900	1620	35400	4390	32600	2710
2	38100	14300	40400	17400	42300	30500	15500	689	37100	6420	37900	5030
3	35600	15500	44000	16500	41900	28100	21000	634	39100	11300	37900	6040
4	31100	18000	41100	19100	42300	29500	18100	807	40000	11800	38300	5690
5	27300	10500	40100	21500	44600	32300	34300	1930	38600	6940	35800	7180
6	34300	8940	44400	21800	42600	31100	38700	5070	36100	5570	39100	13000
7	35500	12500	42700	27900	42000	29400	41600	6440	34500	4830	35100	10200
8	39000	19600	42500	30600	43900	30500	43200	8410	40000	2560	30200	10000
9	40100	27400	42200	30000	42800	28000	43900	12900	41600	2960	31600	11500
10	38100	25600	42100	30400	45500	27000	44200	13600	40000	5670	28400	10000
11	37700	26800	43200	30500	46000	29300	41100	8630	37200	6720	29100	9520
12	40400	27200	44400	31000	48500	27600	40700	7600	34900	8720	34100	13700
13	38900	26000	45400	28100	46200	26700	42200	5690	35100	13100	34300	8380
14	38000	19300	45100	26800	45900	26500	18100	1370	35600	12100	35700	6600
15	36600	14200	43500	26400	44600	24600	15000	1000	38300	8660	32600	4980
16	41000	14200	47100	25400	39700	23700	29700	959	38700	12000	26600	3740
17	42700	14800	47300	29400	41000	23700	33900	1870	42100	12500	32100	5620
18	42900	15700	46000	31200	43600	23200	35500	2750	40500	8720	33800	8100
19	44200	16900	42700	27800	43900	21100	38400	4750	38200	6260	35600	11900
20	38800	19500	43400	25200	41000	17500	40000	7050	36300	2680	34900	16300
21	38100	14600	43600	23400	45100	20500	40600	6330	37900	3860	34500	18500
22	37300	16200	44000	23800	47200	24100	42400	9350	38200	7060	31900	18800
23	37800	18100	45300	27900	46000	22800	41100	10100	35600	7830	32000	22200
24	42500	18200	46400	32100	45700	20400	41800	10200	34800	9280	32800	20700
25	42900	22000	46500	32900	45200	13300	42300	13200	32900	8890	34000	19400
26	40300	21900	45900	30100	41700	5760	37900	11600	29300	7730	38100	20700
27	40400	22000	46600	29300	42200	4610	35200	10400	33300	10300	32300	7620
28	40000	17800	47400	29700	43500	3620	32900	9350	31400	4100	28200	5080
29	40200	16100	47600	29700	37900	2420	38500	8600	32300	4520	31700	6700
30	40500	16100	46500	29900	22200	1490	34700	9530	25900	891	37000	13700
31	---	---	45900	29900	---	---	32400	5680	27200	1010	---	---
MONTH	44200	8940	47600	15600	48500	1490	44200	634	42100	891	39100	2710

ALAFIA RIVER BASIN

02301721 ALAFIA RIVER AT GIBSONTON, FL

LOCATION.--Lat 27°51'34", long 82°23'04" (1927 North American datum), in NW¹/₄ sec.23, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100204, on Williams Park boat ramp dock on right bank, 200 ft downstream from bridge on U.S. Highway 41, 0.6 mi north of Gibsonton, and 1.1 mi upstream from mouth.
DRAINAGE AREA.--418 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--January 1987 to September 1989 (tidal stage data); October 1998 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.99 ft, Sept. 17, 2000; minimum, 7.17 ft, Jan. 10, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.14 ft, Sept. 5; minimum, 7.83 ft, Jan. 8.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	11.35	9.28	11.99	9.20	12.25	8.85	11.91	8.28	11.45	8.75	10.68	8.75
2	11.73	9.49	12.22	9.22	12.01	8.59	11.57	8.60	11.06	8.99	12.62	9.71
3	11.88	9.51	12.36	9.33	11.80	8.55	12.06	8.79	11.07	9.02	12.28	9.64
4	11.92	9.52	12.08	8.83	11.48	8.18	10.13	8.08	10.54	9.06	10.43	---
5	12.16	9.74	11.64	8.72	11.35	8.56	11.10	9.15	11.06	8.18	10.33	---
6	12.30	9.72	11.48	9.07	11.18	8.61	12.50	10.06	12.09	8.67	11.04	8.54
7	12.54	9.52	11.57	9.18	11.24	8.98	10.75	9.28	11.86	9.73	11.20	8.68
8	11.42	9.10	11.84	9.40	11.77	9.75	10.51	7.83	11.09	8.53	11.09	8.82
9	11.22	8.53	11.55	9.20	11.48	9.58	11.06	8.53	11.46	8.54	10.93	8.82
10	11.46	9.04	11.64	9.47	11.76	9.50	11.65	8.54	11.47	8.72	10.86	8.66
11	12.07	9.56	12.03	9.91	11.87	9.21	11.65	8.63	11.48	8.57	11.36	8.54
12	12.32	9.73	11.82	9.63	11.94	8.93	12.14	8.55	11.47	8.74	11.81	8.96
13	12.89	10.34	11.72	9.10	12.25	8.76	12.18	8.53	11.36	8.80	12.13	9.57
14	13.00	10.28	11.69	8.98	12.27	8.94	12.08	8.87	11.14	8.61	11.33	9.24
15	12.08	9.74	11.82	8.92	12.18	8.84	12.22	8.80	11.11	9.05	11.24	9.24
16	12.07	9.59	11.87	8.76	11.81	8.59	11.10	8.55	11.18	9.20	11.46	9.27
17	11.63	8.55	11.52	8.18	11.93	9.02	10.97	8.76	10.99	8.97	11.21	9.07
18	10.94	8.54	11.61	8.56	12.65	9.09	11.02	8.92	10.79	8.85	11.40	8.87
19	11.49	8.83	11.86	8.99	11.88	9.36	11.21	9.13	11.54	8.92	11.72	8.88
20	12.19	9.26	12.01	9.50	11.52	8.79	11.04	9.22	12.29	9.62	11.80	9.17
21	11.98	9.34	12.13	9.57	10.44	8.77	10.89	9.76	11.74	9.60	11.68	9.40
22	12.02	9.52	11.66	9.81	11.09	9.37	10.93	9.17	11.49	9.15	11.18	9.07
23	12.23	9.95	11.51	10.06	12.03	9.93	11.21	8.84	11.05	8.82	11.31	8.53
24	12.12	10.18	11.66	10.14	11.64	9.91	11.84	8.80	11.61	8.54	11.60	8.54
25	11.96	9.79	11.46	9.89	11.36	9.37	11.53	8.87	12.10	8.28	11.77	8.87
26	11.62	9.04	11.47	9.75	11.14	8.97	11.62	8.59	12.19	8.85	11.76	8.83
27	10.62	9.02	11.82	9.36	12.12	8.65	11.84	8.52	12.55	9.09	11.73	8.85
28	10.48	8.97	12.12	9.15	12.57	9.08	11.85	8.53	10.95	8.72	11.50	8.81
29	10.69	8.98	12.15	9.35	12.60	9.58	11.95	8.53	---	---	11.36	8.82
30	11.19	8.81	12.18	9.11	12.29	8.74	11.85	8.54	---	---	11.86	9.17
31	11.65	9.18	---	---	11.97	8.57	11.76	8.74	---	---	12.30	9.41
MONTH	13.00	8.53	12.36	8.18	12.65	8.18	12.50	7.83	12.55	8.18	12.62	8.53

ALAFIA RIVER BASIN

02301721 ALAFIA RIVER AT GIBSONTON, FL--Continued

PERIOD OF RECORD.--May 1999 to May 2000 (top and bottom sensors); June 2000 to current year (top, middle, and bottom sensors).
 INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located 1.10 ft below NGVD,
 3.70 ft below NGVD, and 6.50 ft below NGVD.

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

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 52,200 microsiemens, June 3, 2000; middle sensor maximum, 50,800 microsiemens, June 16, 2001; bottom sensor maximum, 51,900 microsiemens, June 3, 2000; top sensor minimum, 140 microsiemens, Sept. 15, 2001; middle sensor minimum, 150 microsiemens, Sept. 15, 2001; bottom sensor minimum, 140 microsiemens, Sept. 15, 2001.

TEMPERATURE.--Top sensor maximum, 33.8°C, June 14, 2001; middle sensor maximum, 33.6°C, June 14, 2001; bottom sensor maximum, 33.4°C, June 14, 2001; top sensor minimum, 9.0°C, Jan. 1, 2001; middle sensor minimum, 11.1°C, Jan. 4, 2001; bottom sensor minimum, 11.3°C, Jan. 4, 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 49,600 microsiemens, June 12; middle sensor maximum, 49,800 microsiemens, June 12; bottom sensor maximum, 51,800 microsiemens, May 29; top sensor minimum, 2,800 microsiemens, July 4; middle sensor minimum, 3,730 microsiemens, July 16; bottom sensor minimum, 14,100 microsiemens, Aug. 20.

TEMPERATURE.--Top sensor maximum, 33.6°C, July 16; middle sensor maximum, 32.4°C, July 29; bottom sensor maximum, 32.2°C, July 29; top sensor minimum, 10.3°C, Jan. 4; middle sensor minimum, 12.3°C, Jan. 4; bottom sensor minimum, 12.9°C, Jan. 5.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
 (1.10 FT BELOW NGVD)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	35400	5620	41700	20300	42900	25600	44200	28500	45000	24200	43900	19500
2	35200	4950	42200	21700	43000	24600	44400	31600	43600	29600	44600	26200
3	34600	7670	42100	23800	43500	15000	44300	25600	43800	28800	42800	21800
4	35100	9690	42400	24000	43300	27500	43700	21900	42000	21900	41700	11600
5	34100	10300	42000	25500	44100	16200	44900	21300	45600	18200	44600	7990
6	33700	12700	41500	23800	43300	28400	45200	31400	46500	25000	45100	13200
7	33600	9930	41500	21100	43900	29700	41300	25600	45100	31300	45100	20000
8	36100	12000	41200	21500	43800	30100	44700	17700	45400	18200	45000	22200
9	36100	12600	41000	21200	43600	26300	44300	17200	47000	26500	44900	22600
10	36600	18000	41000	25500	42900	26800	44300	15900	46400	22200	42700	19900
11	37500	20200	40700	27600	43300	22400	44100	19600	45800	11800	43800	17600
12	37700	19000	41200	21900	44400	23700	44000	11900	46000	20600	44100	23800
13	38000	22400	41300	22200	44300	24700	44600	24200	46800	19800	42500	33000
14	36700	22800	41000	23000	43700	26600	44700	23300	47200	17800	41800	21500
15	36600	16800	40100	20500	43700	25100	43100	21200	46900	22800	41800	21800
16	37000	18500	42400	16600	44400	25800	43900	19800	43300	24600	41700	23500
17	37000	18500	42500	16600	44400	26600	44100	19300	42300	20200	42900	22000
18	37000	16900	42800	23000	42900	24900	44300	21200	43700	22100	42800	17500
19	37000	17200	42900	24800	42200	22500	44700	20000	44900	25500	44100	16900
20	37500	20700	42700	23800	42000	21800	42500	21100	45900	27600	43400	20500
21	38100	20300	42000	24000	43400	20800	44100	22200	44000	26600	43000	28200
22	38200	19700	42000	23900	44300	23000	44900	16600	44600	23400	41700	17800
23	37200	16400	42600	24200	44200	29700	45400	20800	45100	20600	42200	9850
24	38100	16700	42200	26500	43500	30300	44800	18200	44800	19700	40700	10800
25	37600	13000	43400	26500	44200	23600	44000	21500	45100	13900	41300	24200
26	39000	13500	43500	26600	44800	20300	44700	21500	44500	13700	41500	24900
27	38500	15800	43800	25000	44100	25100	45200	25700	41600	12000	41000	25200
28	39100	11500	44400	27700	44000	24200	44400	28500	43900	8370	39600	24000
29	39200	15700	44200	28500	43800	25600	44000	15800	---	---	39600	23600
30	40500	15100	43100	27800	43900	24600	44900	18300	---	---	40100	27500
31	41000	17900	---	---	44400	27200	44700	29400	---	---	39800	25800
MONTH	41000	4950	44400	16600	44800	15000	45400	11900	47200	8370	45100	7990

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02301738 ARCHIE CREEK AT 78TH STREET NEAR TAMPA, FL

LOCATION.--Lat 27°52'47", long 82°22'15" (1927 North American datum), in SE $\frac{1}{4}$ sec.11, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on right bank of creek, 400 ft downstream from 78th street, and 7.2 mi southeast of Tampa.

DRAINAGE AREA.--2.90 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 12.71 ft below National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	0.38	0.09	0.11	0.13	0.27	0.09	0.04	e0.10	4.4	0.19	6.3
2	3.0	0.31	0.08	0.43	0.11	0.33	0.09	0.03	e0.05	4.4	0.97	4.7
3	2.9	0.25	0.08	0.47	0.08	0.35	0.23	0.02	e0.00	2.6	0.82	4.1
4	2.8	0.23	0.07	0.24	0.07	0.59	0.67	0.02	e0.00	1.7	0.61	3.3
5	2.7	0.21	0.08	0.18	0.07	0.34	0.44	0.02	e0.00	1.3	0.69	2.8
6	2.6	0.19	0.07	0.25	0.06	1.1	0.25	0.02	e0.00	1.0	0.54	2.8
7	2.5	0.17	0.09	0.53	0.89	1.2	0.16	0.01	e0.00	0.89	2.2	2.6
8	2.4	0.17	3.1	0.26	0.85	1.1	0.19	e0.00	e0.00	1.5	3.2	2.3
9	2.1	0.17	2.4	0.17	0.35	0.98	0.15	e0.00	e0.00	0.92	2.0	3.0
10	2.0	0.15	2.2	0.14	0.22	0.94	0.13	e0.00	e0.00	1.6	2.5	5.0
11	1.9	0.14	1.3	0.10	0.29	0.86	0.10	e0.00	e0.00	0.69	1.6	4.6
12	1.8	0.13	0.82	0.11	0.19	0.91	0.09	e0.00	e0.00	0.39	1.3	5.8
13	1.7	0.15	0.61	0.17	0.14	1.0	0.08	e0.00	e0.00	2.0	2.5	6.6
14	1.6	0.20	0.43	1.2	0.15	0.90	0.07	e0.00	e0.00	1.5	13	4.3
15	1.8	0.21	0.35	2.8	0.12	0.74	0.07	e0.00	e0.00	0.59	27	3.8
16	2.4	0.19	0.31	0.98	0.11	0.60	0.06	e0.00	e0.00	0.29	11	2.9
17	1.8	0.17	0.28	0.51	0.09	0.55	0.11	e0.00	e0.00	0.32	7.7	2.3
18	1.1	0.16	0.48	0.34	0.07	0.50	0.28	e0.00	e0.00	0.19	6.4	2.3
19	0.93	0.17	0.35	0.28	0.07	0.43	0.18	e0.00	e0.00	0.13	4.7	1.9
20	0.87	0.18	0.25	0.26	0.07	0.37	0.16	e0.00	e0.96	0.11	4.5	2.4
21	1.5	0.17	0.19	0.25	0.07	0.41	0.13	e0.00	e0.57	0.08	4.7	2.0
22	2.7	0.16	0.17	0.30	0.28	0.43	0.12	e0.00	1.0	0.05	3.2	1.9
23	2.0	0.17	0.16	0.32	2.5	0.35	0.11	e0.00	0.40	0.05	2.7	1.5
24	1.6	0.16	0.18	0.44	2.5	0.24	0.15	e0.00	0.26	0.03	2.4	1.6
25	1.6	0.14	0.18	0.41	1.3	0.18	0.09	e0.00	0.32	0.03	2.1	2.8
26	2.5	0.14	0.25	0.30	0.79	0.18	0.08	e0.00	0.34	0.03	1.9	2.6
27	0.57	0.13	0.19	0.23	0.53	0.18	0.05	e0.00	0.20	0.02	2.7	2.4
28	0.33	0.11	0.15	0.20	0.33	0.15	0.05	e0.00	0.08	0.02	2.6	1.9
29	0.66	0.11	0.15	0.22	---	0.12	0.05	e0.00	0.86	0.02	2.9	1.5
30	0.69	0.10	0.12	0.19	---	0.10	0.04	e0.20	4.6	0.05	7.8	1.2
31	0.41	---	0.12	0.16	---	0.09	---	e0.10	---	0.33	7.2	---
TOTAL	56.96	5.32	15.30	12.55	12.43	16.49	4.47	0.46	9.74	27.23	133.62	93.2
MEAN	1.84	0.18	0.49	0.40	0.44	0.53	0.15	0.015	0.32	0.88	4.31	3.11
MAX	3.5	0.38	3.1	2.8	2.5	1.2	0.67	0.20	4.6	4.4	27	6.6
MIN	0.33	0.10	0.07	0.10	0.06	0.09	0.04	0.00	0.00	0.02	0.19	1.2
MED	1.8	0.17	0.19	0.26	0.15	0.43	0.11	0.00	0.33	0.26	2.6	2.7
AC-FT	113	11	30	25	25	33	8.9	0.9	19	54	265	185
CFSM	0.63	0.06	0.17	0.14	0.15	0.18	0.05	0.01	0.11	0.30	1.49	1.07
IN.	0.73	0.07	0.20	0.16	0.16	0.21	0.06	0.01	0.12	0.35	1.71	1.20

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

MEAN	1.62	0.19	0.28	0.17	0.18	0.44	0.37	0.011	0.20	3.69	3.19	7.37
MAX	1.84	0.25	0.49	0.40	0.44	0.77	0.97	0.017	0.32	10.0	4.87	14.4
(WY)	2002	2000	2002	2002	2002	2001	2001	2001	2002	2001	2001	2001
MIN	1.36	0.15	0.085	0.041	0.034	0.026	0.003	0.001	0.019	0.16	0.38	3.11
(WY)	2001	2001	2000	2000	2000	2000	2000	2000	2000	2000	2000	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2000 - 2002

ANNUAL TOTAL	1035.05	387.77	
ANNUAL MEAN	2.84	1.06	1.48
HIGHEST ANNUAL MEAN			2.77
LOWEST ANNUAL MEAN			0.60
HIGHEST DAILY MEAN	112	Sep 15	112
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	May 5	0.00
MAXIMUM PEAK FLOW			48
MAXIMUM PEAK STAGE			20.48
ANNUAL RUNOFF (AC-FT)	2050	769	1070
ANNUAL RUNOFF (CFSM)	0.98	0.37	0.51
ANNUAL RUNOFF (INCHES)	13.28	4.97	6.93
10 PERCENT EXCEEDS	7.6	2.8	3.3
50 PERCENT EXCEEDS	0.17	0.26	0.12
90 PERCENT EXCEEDS	0.00	0.00	0.00

TAMPA BAY AND COASTAL AREAS

02301740 NORTH ARCHIE CREEK AT PROGRESS BOULEVARD NEAR TAMPA, FL

LOCATION.--Lat 27°53'47", long 82°22'00" (1927 North American datum), in SW¼ sec.6, T.30 S., R.20 E., Hillsborough County, Hydrologic Unit 03100206, on left wingwall on upstream side of box culverts on Progress Boulevard, 0.2 mi northwest of Interstate 75, and 7.5 mi southeast of Tampa.

DRAINAGE AREA.--6.09 mi².

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

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 10.72 ft above National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	0.80	0.03	0.03	0.17	0.74	0.01	0.79	0.07	3.4	2.5	6.3
2	2.3	0.71	0.02	0.10	0.17	0.53	0.00	0.49	0.03	3.7	2.7	5.1
3	1.9	0.17	0.04	0.23	0.12	0.34	0.04	0.10	0.00	2.2	2.5	4.3
4	1.5	0.10	0.04	0.28	0.10	0.43	0.17	0.04	0.00	1.6	2.2	3.4
5	1.4	0.10	0.04	0.22	0.10	0.41	0.14	0.04	0.00	1.2	1.8	2.8
6	1.4	0.10	0.04	0.19	0.07	0.30	0.07	0.05	0.00	0.77	1.6	2.6
7	1.5	0.10	0.04	0.28	0.59	0.21	0.03	0.03	0.00	0.36	5.0	2.3
8	1.9	0.10	0.44	0.27	1.2	0.17	0.01	0.01	0.00	0.29	6.3	1.9
9	2.0	0.10	0.60	0.17	0.81	0.17	0.00	0.00	0.00	0.44	4.6	1.5
10	1.5	0.10	0.50	0.17	0.51	0.15	0.00	0.01	0.00	0.30	4.3	1.2
11	1.2	0.10	0.24	0.16	0.50	0.16	0.00	0.01	0.00	0.14	3.1	1.5
12	1.2	0.10	0.14	0.17	0.35	0.26	0.00	0.00	0.00	0.46	2.5	3.4
13	1.2	0.10	0.10	0.19	0.28	0.28	0.00	0.00	0.00	3.9	2.5	4.5
14	1.2	0.10	0.07	0.80	0.23	0.30	0.01	0.00	0.00	4.5	28	4.0
15	1.2	0.10	0.05	1.6	0.17	0.34	0.04	0.00	0.00	2.9	50	3.4
16	1.2	0.10	0.04	1.2	0.17	0.28	0.03	0.00	0.00	1.9	24	2.9
17	1.2	0.09	0.03	0.85	0.13	0.23	0.06	0.00	0.00	1.4	18	2.5
18	1.2	0.10	0.11	0.53	0.10	0.18	3.5	0.00	0.00	0.91	16	2.1
19	1.1	0.10	0.15	0.34	0.10	0.16	2.6	0.00	0.00	0.51	12	1.9
20	1.2	0.10	0.18	0.27	0.10	0.14	1.5	0.00	0.23	0.24	9.8	2.0
21	2.2	0.10	0.17	0.22	0.10	0.11	1.2	0.00	0.02	0.17	7.7	2.0
22	2.9	0.10	0.12	0.18	0.27	0.15	0.69	0.00	0.72	0.13	6.0	1.8
23	2.5	0.10	0.10	0.18	1.9	0.10	0.31	0.00	0.34	0.12	4.7	1.7
24	2.5	0.10	0.13	0.17	2.4	0.10	0.14	0.00	0.23	0.17	3.9	2.1
25	2.4	0.07	0.15	0.17	1.8	0.09	0.07	0.00	0.17	0.07	3.3	3.5
26	1.6	0.04	0.17	0.17	1.4	0.07	0.06	0.00	0.58	0.97	3.2	3.5
27	1.2	0.04	0.17	0.17	1.2	0.06	0.07	0.00	2.4	1.5	3.5	3.7
28	0.93	0.03	0.11	0.21	1.0	0.05	0.03	0.00	1.7	1.0	3.7	3.3
29	0.99	0.02	0.07	0.17	---	0.04	0.02	0.00	1.9	0.96	4.2	2.9
30	0.99	0.02	0.04	0.20	---	0.03	0.57	0.22	3.0	1.2	7.3	2.5
31	0.78	---	0.04	0.17	---	0.02	---	0.14	---	4.6	8.1	---
TOTAL	49.09	3.99	4.17	10.06	16.04	6.60	11.37	1.93	11.39	42.01	255.0	86.6
MEAN	1.58	0.13	0.13	0.32	0.57	0.21	0.38	0.062	0.38	1.36	8.23	2.89
MAX	2.9	0.80	0.60	1.6	2.4	0.74	3.5	0.79	3.0	4.6	50	6.3
MIN	0.78	0.02	0.02	0.03	0.07	0.02	0.00	0.00	0.00	0.07	1.6	1.2
MED	1.4	0.10	0.10	0.19	0.25	0.17	0.05	0.00	0.00	0.96	4.3	2.7
AC-FT	97	7.9	8.3	20	32	13	23	3.8	23	83	506	172
CFSM	0.26	0.02	0.02	0.05	0.09	0.03	0.06	0.01	0.06	0.22	1.35	0.47
IN.	0.30	0.02	0.03	0.06	0.10	0.04	0.07	0.01	0.07	0.26	1.56	0.53
*PREC	0.98	0.09	1.30	1.40	2.34	0.46	0.88	2.80	5.12	4.02	12.62	3.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	2.50	0.43	0.20	0.19	0.25	0.49	0.64	0.021	0.57	7.05	7.62	13.4
MAX	4.66	0.96	0.33	0.32	0.57	1.27	1.53	0.062	0.82	18.2	12.8	26.3
(WY)	2000	2000	2000	2002	2002	2001	2001	2002	2001	2001	2001	2001
MIN	1.26	0.13	0.13	0.12	0.048	0.001	0.000	0.000	0.38	1.36	1.87	2.89
(WY)	2001	2002	2002	2001	2001	2000	2000	2000	2002	2002	2000	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2000 - 2002

ANNUAL TOTAL	1920.71	498.25	
ANNUAL MEAN	5.26	1.37	2.79
HIGHEST ANNUAL MEAN			5.24
LOWEST ANNUAL MEAN			1.37
HIGHEST DAILY MEAN	245	Sep 15	245
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 21	0.00
MAXIMUM PEAK FLOW			137
MAXIMUM PEAK STAGE			18.01
ANNUAL RUNOFF (AC-FT)	3810	988	2020
ANNUAL RUNOFF (CFSM)	0.86	0.22	0.46
ANNUAL RUNOFF (INCHES)	11.73	3.04	6.23
10 PERCENT EXCEEDS	13	3.4	5.3
50 PERCENT EXCEEDS	0.16	0.21	0.17
90 PERCENT EXCEEDS	0.00	0.00	0.00

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02301745 DELANEY CREEK POPOFF CANAL NEAR TAMPA, FL

LOCATION.--Lat 27°54'07", long 82°22'38" (1927 North American datum), in NE¼ sec.2, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on left bank at dead end of 51st Street, 350 ft upstream from Madison Avenue, and 5.9 mi southeast of Tampa.

DRAINAGE AREA.--2.00 mi².

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

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 2.07 ft below National Geodetic Vertical Datum of 1929 (Levels by Hillsborough County).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.87	0.21	0.05	0.15	0.11	0.32	0.19	0.13	1.1	3.2	0.05	5.9
2	0.79	0.22	0.04	0.38	0.11	0.28	0.17	0.12	0.55	5.2	0.41	4.2
3	0.74	0.17	0.04	0.47	0.10	0.26	0.24	0.12	0.28	2.0	0.13	3.6
4	1.5	0.13	0.04	0.19	0.09	0.34	0.44	0.11	0.20	1.0	0.12	2.8
5	2.4	0.12	0.03	0.14	0.09	2.6	0.26	0.11	0.18	0.64	0.10	2.3
6	1.1	0.09	0.03	0.15	0.09	6.8	0.19	0.10	0.17	0.46	0.03	2.2
7	0.61	0.13	0.05	0.16	0.62	2.5	0.17	0.10	0.14	0.30	2.7	2.0
8	0.51	0.14	0.61	0.15	0.59	1.6	0.14	0.10	0.14	0.21	4.8	1.7
9	0.77	0.11	0.35	0.14	0.33	2.1	0.13	0.09	0.14	0.24	0.62	1.8
10	0.64	0.11	0.25	0.14	0.27	2.0	0.13	0.08	0.11	0.19	0.31	1.7
11	0.38	0.11	0.14	0.13	0.28	1.3	0.12	0.08	0.11	0.13	0.12	2.9
12	0.29	0.10	0.11	0.13	0.26	1.2	0.12	e0.00	0.08	1.3	0.01	4.2
13	0.26	0.10	0.09	0.15	0.22	1.9	0.14	e0.00	0.07	4.6	0.00	4.8
14	0.22	0.12	0.09	0.41	0.21	3.5	0.14	e0.00	0.07	3.9	41	3.8
15	0.19	0.12	0.09	0.69	0.19	4.4	0.14	e0.00	0.07	1.4	45	3.4
16	0.18	0.11	0.14	0.31	0.17	4.6	0.13	e0.00	0.07	0.82	15	2.5
17	0.18	0.10	0.14	0.27	0.16	2.0	0.12	e0.00	0.10	0.55	16	2.6
18	0.17	0.10	0.25	0.25	0.14	1.4	0.41	e0.00	0.31	0.45	24	2.2
19	0.16	0.10	0.24	0.23	0.13	0.87	0.25	e0.00	0.38	0.36	8.5	2.1
20	0.16	0.10	0.16	0.21	0.13	4.3	0.18	0.14	1.5	0.30	6.9	2.1
21	0.25	0.11	0.14	0.20	0.12	4.8	0.16	0.12	5.0	0.25	6.5	1.6
22	0.59	0.10	0.13	0.20	0.16	5.2	0.15	0.09	2.6	0.19	6.0	1.5
23	0.25	0.10	0.13	0.20	1.4	1.7	0.15	0.08	1.4	0.15	5.9	1.4
24	0.20	0.09	0.14	0.19	1.9	2.9	0.12	0.08	0.43	0.17	5.8	1.4
25	0.29	0.07	0.14	0.17	0.75	1.6	0.11	0.07	0.24	0.18	5.6	1.7
26	0.24	0.05	0.18	0.16	0.55	0.60	0.12	0.07	0.16	0.18	5.4	1.6
27	0.19	0.05	0.16	0.15	0.40	0.34	0.12	0.07	1.9	0.51	5.9	1.7
28	0.16	0.05	0.15	0.14	0.39	0.44	0.11	0.06	3.0	0.43	5.8	1.4
29	0.15	0.05	0.15	0.13	---	0.33	0.13	0.07	3.1	0.25	4.9	1.2
30	0.16	0.05	0.17	0.12	---	0.27	0.14	1.3	4.5	0.21	7.7	1.1
31	0.19	---	0.16	0.12	---	0.21	---	5.7	---	0.11	12	---
TOTAL	14.79	3.21	4.59	6.63	9.96	62.66	5.12	8.99	28.10	29.88	237.30	73.4
MEAN	0.48	0.11	0.15	0.21	0.36	2.02	0.17	0.29	0.94	0.96	7.65	2.45
MAX	2.4	0.22	0.61	0.69	1.9	6.8	0.44	5.7	5.0	5.2	45	5.9
MIN	0.15	0.05	0.03	0.12	0.09	0.21	0.11	0.00	0.07	0.11	0.00	1.1
MED	0.25	0.10	0.14	0.16	0.20	1.6	0.14	0.08	0.22	0.36	5.6	2.1
AC-FT	29	6.4	9.1	13	20	124	10	18	56	59	471	146
CFSM	0.24	0.05	0.07	0.11	0.18	1.01	0.09	0.14	0.47	0.48	3.83	1.22
IN.	0.28	0.06	0.09	0.12	0.19	1.17	0.10	0.17	0.52	0.56	4.41	1.37
*PREC	0.69	0.10	2.09	1.66	2.83	0.39	1.29	3.42	5.22	3.74	11.02	4.06

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2001	2001	2002	2002	2001	2002	2001	2001	2002	2001
MEAN	0.97	0.25	0.27	0.35	0.29	1.26	0.17	0.10	0.84	6.47	4.67	8.62
MAX	1.74	0.41	0.39	0.66	0.36	2.02	0.32	0.29	1.05	16.9	7.65	14.3
(WY)	2000	2001	2001	2001	2002	2002	2001	2002	2001	2001	2002	2001
MIN	0.48	0.11	0.15	0.17	0.16	0.23	0.013	0.000	0.54	0.96	1.08	2.45
(WY)	2002	2002	2002	2000	2000	2000	2000	2000	2000	2002	2000	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2000 - 2002

ANNUAL TOTAL	1258.20	484.63		
ANNUAL MEAN	3.45	1.33	2.03	
HIGHEST ANNUAL MEAN			3.51	2001
LOWEST ANNUAL MEAN			1.25	2000
HIGHEST DAILY MEAN	172	Sep 15	45	Aug 15
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	May 10	0.00	May 12
MAXIMUM PEAK FLOW			322	Aug 14
MAXIMUM PEAK STAGE			11.83	Aug 14
ANNUAL RUNOFF (AC-FT)	2500	961	1470	
ANNUAL RUNOFF (CFSM)	1.72	0.66	1.01	
ANNUAL RUNOFF (INCHES)	23.40	9.01	13.78	
10 PERCENT EXCEEDS	6.1	3.7	4.0	
50 PERCENT EXCEEDS	0.34	0.20	0.28	
90 PERCENT EXCEEDS	0.02	0.08	0.00	

*PRECIPITATION, TOTAL, INCHES

TAMPA BAY AND COASTAL AREAS

02301750 DELANEY CREEK NEAR TAMPA, FL

LOCATION.--Lat 27°55'32", long 82°21'52" (1927 North American datum), 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 is 10.72 ft above National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records fair.

REVISIONS.--The maximum daily discharge for September 2001 and water year 2001 has been revised to 341 ft³/s, Sept. 15, 2001; revised daily discharges, in cubic feet per second, for periods in September 2001 are given below. These figures supercede those published in the report for 2001.

Sept. 14...222	Sept. 18...66	Sept. 22...40	Sept. 25...38	Sept. 28...20
15...341	19...54	23...44	26...31	29...16
16...167	20...47	24...32	27...24	30...13
17... 90	21...42			

September 2001	TOTAL	MEAN	MAX	MIN	CFSM	IN
September 1985-2001	1563.36	52.1	341	0.96	3.24	3.61
		25.5				
Wtr Yr 2001	ANNUAL TOTAL	ANNUAL MEAN	HIGHEST DAILY MEAN	MAXIMUM PEAK FLOW	ANNUAL RUNOFF (INCHES)	
Wtr Yrs 1985-2001	3774.78	10.3	341 Sept. 15	419 Sept. 15	8.72	7.45
		8.83				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	1.6	0.80	1.1	1.2	1.4	0.62	0.43	3.5	29	26	18
2	8.0	1.6	0.78	1.4	1.0	1.5	0.63	0.39	2.0	28	25	19
3	6.0	1.4	0.79	1.5	0.96	1.5	0.93	0.35	1.2	24	25	16
4	5.4	1.4	0.75	1.4	0.92	1.7	1.6	0.29	0.85	19	24	11
5	5.2	1.4	0.72	1.0	0.84	1.7	1.3	0.24	0.64	14	23	8.4
6	4.7	1.4	0.70	1.2	0.80	1.4	0.92	0.17	0.47	11	24	7.3
7	4.1	1.3	0.76	1.2	2.0	0.95	0.81	0.11	0.37	8.5	35	7.1
8	3.5	1.3	2.3	1.3	3.0	0.97	0.75	0.05	0.33	15	33	7.3
9	3.0	1.3	2.1	0.71	1.9	0.99	0.59	0.03	0.30	13	28	6.7
10	2.7	1.2	1.8	0.63	1.4	0.84	0.47	0.01	0.27	11	25	6.0
11	2.4	1.1	1.7	0.66	1.3	0.77	0.37	0.01	0.24	9.4	20	25
12	2.2	1.0	1.6	0.60	1.2	0.86	0.41	0.00	0.19	13	15	34
13	2.1	1.1	1.6	0.70	1.1	0.84	0.69	0.00	0.16	17	13	34
14	2.0	1.2	1.5	1.1	1.0	0.90	1.1	0.01	0.17	22	45	25
15	1.9	1.2	1.4	2.5	0.99	0.86	0.89	0.06	0.47	19	83	17
16	2.0	1.2	1.3	1.6	0.89	0.72	0.78	0.04	0.33	14	56	12
17	2.2	1.1	1.3	1.1	0.80	0.59	2.9	0.03	0.53	11	42	8.6
18	2.1	1.1	2.1	1.6	0.76	0.53	22	0.70	1.0	8.3	40	7.6
19	1.9	1.00	2.3	1.6	0.71	0.59	9.5	1.9	2.4	6.7	35	7.5
20	2.0	0.95	2.3	1.3	0.73	0.53	4.4	1.3	8.9	5.7	35	13
21	1.9	0.95	2.0	1.2	0.72	0.67	2.3	0.91	15	5.0	32	11
22	4.6	0.96	1.6	1.2	0.94	0.64	1.5	0.58	22	4.5	23	8.7
23	3.3	1.0	1.4	1.9	4.9	1.2	1.1	0.38	15	4.5	16	7.4
24	2.9	1.1	1.3	4.5	8.1	1.7	1.0	0.56	9.6	5.2	12	11
25	3.5	1.0	1.3	1.3	4.5	1.6	0.96	0.53	8.8	5.8	9.7	17
26	3.0	0.95	1.3	0.87	3.0	1.2	0.82	0.36	7.8	26	14	13
27	2.6	0.92	1.3	0.65	2.2	0.94	0.67	0.24	6.3	45	17	13
28	2.2	0.89	1.1	0.75	1.3	0.76	0.53	0.14	9.1	31	16	10
29	2.0	0.85	0.97	1.1	---	0.84	0.47	0.07	28	23	12	7.3
30	1.9	0.83	0.97	1.0	---	0.81	0.47	1.6	34	19	18	5.6
31	1.6	---	0.98	1.5	---	0.71	---	3.7	---	24	25	---
TOTAL	102.9	34.30	42.82	40.17	49.16	31.21	61.48	15.19	179.92	491.6	846.7	394.5
MEAN	3.32	1.14	1.38	1.30	1.76	1.01	2.05	0.49	6.00	15.9	27.3	13.2
MAX	10	1.6	2.3	4.5	8.1	1.7	22	3.7	34	45	83	34
MIN	1.6	0.83	0.70	0.60	0.71	0.53	0.37	0.00	0.16	4.5	9.7	5.6
CFSM	0.21	0.07	0.09	0.08	0.11	0.06	0.13	0.03	0.37	0.98	1.70	0.82
IN.	0.24	0.08	0.10	0.09	0.11	0.07	0.14	0.04	0.42	1.14	1.96	0.91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

MEAN	7.24	3.26	3.75	5.19	5.64	7.15	3.38	2.43	8.11	15.5	17.7	24.8
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	0.35	0.39	0.18	0.10	0.22	0.054	0.000	0.11	1.49	1.11	1.72
(WY)	1992	2001	1991	1997	1997	2000	2000	2000	1988	1993	1996	1987

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1985 - 2002

ANNUAL TOTAL	3854.00	2289.95	
ANNUAL MEAN	10.6	6.27	8.69
HIGHEST ANNUAL MEAN			21.1
LOWEST ANNUAL MEAN			4.09
HIGHEST DAILY MEAN	341	Sep 15	83
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	May 25	0.02
MAXIMUM PEAK FLOW			199
MAXIMUM PEAK STAGE			5.74
ANNUAL RUNOFF (CFSM)	0.66	0.39	9.99
ANNUAL RUNOFF (INCHES)	8.90	5.29	0.54
10 PERCENT EXCEEDS	33	22	7.33
50 PERCENT EXCEEDS	1.6	1.5	2.5
90 PERCENT EXCEEDS	0.04	0.47	0.19

PEACE, HILLSBOROUGH RIVERS AND WESTEREN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02301793 EAST LAKE OUTFALL AT EAST CHELSEA STREET NEAR TAMPA, FL

LOCATION.--Lat 27°59'05", long 82°22'19" (1927 North American datum), in SE¼ sec.2, T.29 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on upstream side of culvert headwall on East Chelsea Street, 400 ft east of Orient Road, 0.5 mi south of Interstate 4, and 5.7 mi east southeast of Tampa.

DRAINAGE AREA.--1.46 mi².

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	0.52	0.00	0.00	0.00	0.51	0.10	0.50	0.00	7.3	0.73	2.4
2	2.0	0.49	0.00	0.03	0.03	0.49	0.08	0.41	0.00	6.4	0.56	3.5
3	1.1	0.53	0.00	0.01	0.05	0.60	0.38	0.28	0.00	6.3	1.4	2.8
4	0.71	0.42	0.00	0.00	0.05	1.2	0.78	0.16	0.00	7.4	1.3	2.6
5	0.64	0.37	0.00	0.00	e0.06	0.67	0.71	0.07	0.00	6.3	0.91	3.2
6	0.28	0.16	0.00	0.02	e0.04	0.49	0.52	0.01	0.00	5.1	0.60	4.5
7	0.18	0.06	0.00	0.01	e1.2	0.46	0.32	0.00	0.00	3.7	1.7	4.7
8	0.11	0.01	0.07	0.00	e2.3	0.47	0.16	0.00	0.00	3.7	3.8	4.4
9	0.04	0.00	0.03	0.00	e1.9	0.48	0.06	0.00	0.00	2.9	3.0	4.1
10	0.00	0.01	0.01	0.00	e1.6	0.47	0.01	0.00	0.00	2.2	2.7	3.8
11	0.00	0.01	0.00	0.00	1.3	0.36	0.05	0.00	0.00	1.5	1.9	6.4
12	0.00	0.01	0.00	0.01	1.1	0.39	0.65	0.00	0.00	3.6	1.3	8.9
13	0.00	0.02	0.00	0.04	0.81	1.1	0.83	0.00	0.00	5.4	0.88	8.8
14	0.02	0.02	0.00	0.12	0.66	0.78	0.79	0.00	0.00	5.9	2.8	7.7
15	0.00	0.03	0.00	0.81	0.52	0.55	0.75	0.00	0.00	4.4	9.7	7.0
16	0.00	0.02	0.00	1.5	0.49	0.40	0.67	0.00	0.00	3.2	7.7	6.4
17	0.00	0.01	0.00	1.3	0.40	0.40	0.56	0.00	0.00	2.2	6.6	5.8
18	0.00	0.01	0.07	1.2	0.19	0.33	0.50	0.00	0.00	1.5	6.4	4.9
19	0.00	0.01	0.00	1.1	0.13	0.31	0.40	0.00	0.00	1.1	5.1	3.8
20	0.00	0.02	0.00	1.1	0.12	0.29	0.29	0.00	0.00	2.0	4.0	2.7
21	0.00	0.02	0.00	0.76	0.12	0.35	0.20	0.00	0.13	2.9	4.4	1.9
22	0.00	0.00	0.00	0.56	0.32	0.39	0.12	0.00	2.0	1.9	4.0	1.9
23	0.00	0.00	0.00	0.53	3.4	0.33	0.06	0.00	1.7	1.3	3.6	2.3
24	0.00	0.00	0.00	0.54	4.5	0.29	0.01	0.00	1.7	0.90	3.0	3.8
25	4.4	0.00	0.00	0.45	3.3	0.27	0.00	0.00	4.7	0.73	2.4	6.1
26	4.8	0.00	0.00	0.32	2.6	0.26	0.48	0.00	5.6	1.2	2.1	5.7
27	3.1	0.00	0.00	0.19	1.8	0.25	1.1	0.00	7.0	1.2	2.5	5.7
28	1.7	0.00	0.00	0.11	0.71	0.22	0.84	0.00	9.1	0.81	2.6	4.7
29	1.1	0.00	0.00	0.06	---	0.19	0.67	0.00	9.8	0.66	2.4	3.6
30	0.77	0.00	0.00	0.02	---	0.15	0.57	0.00	8.9	1.3	2.5	2.6
31	0.62	---	0.00	0.00	---	0.13	---	0.00	---	1.0	2.3	---
TOTAL	24.97	2.75	0.18	10.79	29.70	13.58	12.66	1.43	50.63	96.00	94.88	136.7
MEAN	0.81	0.092	0.006	0.35	1.06	0.44	0.42	0.046	1.69	3.10	3.06	4.56
MAX	4.8	0.53	0.07	1.5	4.5	1.2	1.1	0.50	9.8	7.4	9.7	8.9
MIN	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.66	0.56	1.9

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	1.40	0.28	0.15	0.13	0.36	0.22	0.16	0.015	0.96	3.32	3.06	5.32
MAX	3.21	0.74	0.46	0.35	1.06	0.44	0.42	0.046	1.69	5.24	4.89	8.48
(WY)	2000	2000	2000	2002	2002	2002	2002	2002	2002	2001	2001	2001
MIN	0.20	0.008	0.000	0.000	0.000	0.023	0.005	0.000	0.041	1.63	1.24	2.93
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 2000 - 2002

ANNUAL TOTAL	638.33	474.27	
ANNUAL MEAN	1.75	1.30	
HIGHEST ANNUAL MEAN			1.28
LOWEST ANNUAL MEAN			1.69
HIGHEST DAILY MEAN	51	Sep 15	9.8
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00
MAXIMUM PEAK FLOW			18
MAXIMUM PEAK STAGE			22.93
10 PERCENT EXCEEDS	5.8		4.4
50 PERCENT EXCEEDS	0.00		0.36
90 PERCENT EXCEEDS	0.00		0.00

TAMPA BAY AND COASTAL AREAS

02301805 PALM RIVER AT MOUTH AT TAMPA, FL

LOCATION.--Lat 27°56'31", long 82°24'36" (1927 North American datum), in SW¹/₄ sec.21, T.29 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on left bank, on City of Tampa fishing dock, at southeastern city limits of Tampa, and 4,000 ft downstream from 50th Street (U.S. Highway 41).
DRAINAGE AREA.--36.8 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--June 2001 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, 4.71 ft, July 23, 2001; minimum, 2.50 ft below NGVD, Mar. 5, 2002.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 3.40 ft, Sept. 5; minimum, 2.50 ft below NGVD, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.44	-0.71	2.09	-0.81	2.39	-1.12	2.09	-1.67	1.58	-1.24	0.80	-1.43
2	1.85	-0.49	2.31	-0.75	2.17	-1.42	1.58	-1.46	1.24	-0.98	2.77	-0.27
3	2.04	-0.47	2.49	-0.65	1.93	-1.52	2.27	-1.26	1.26	-0.93	2.43	-0.41
4	2.06	-0.47	2.20	-1.20	1.63	-1.76	0.25	-1.87	0.64	-0.91	0.55	-2.16
5	2.30	-0.19	1.77	-1.32	1.45	-1.54	1.25	-0.79	1.23	-1.71	0.44	-2.50
6	2.46	-0.22	1.57	-0.90	1.32	-1.36	2.65	0.10	2.23	-1.36	1.19	-1.91
7	2.70	-0.44	1.69	-0.78	1.37	-0.92	1.03	-0.69	2.08	-0.22	1.36	-1.31
8	1.58	-0.87	1.96	-0.56	1.91	-0.17	0.64	-1.99	1.21	-1.76	1.19	-1.19
9	1.33	-1.49	1.68	-0.77	1.60	-0.35	1.17	-1.59	1.57	-1.56	1.03	-1.18
10	1.64	-0.96	1.74	-0.51	1.93	0.02	1.76	-1.54	1.63	-1.41	1.01	-1.45
11	2.21	-0.41	2.16	-0.05	2.05	-0.76	1.77	-1.35	1.63	-1.57	1.44	-1.77
12	2.49	-0.18	1.94	-0.34	2.13	-1.01	2.28	-1.49	1.62	-1.31	1.76	-1.02
13	3.09	0.43	1.87	-0.86	2.39	-1.24	2.30	-1.76	1.52	-1.30	2.28	-0.42
14	3.14	0.33	1.79	-0.99	2.47	-0.95	2.19	-1.10	1.33	-1.51	1.46	-0.73
15	2.22	-0.25	1.93	-1.07	2.30	-1.14	2.41	-1.17	1.27	-0.90	1.39	-0.75
16	2.17	-0.36	1.95	-1.22	1.96	-1.39	1.21	-1.54	1.30	-0.75	1.55	-0.72
17	1.74	-1.51	1.63	-1.77	2.03	-0.89	1.13	-1.29	1.09	-1.03	1.32	-0.89
18	1.03	-1.51	1.75	-1.46	2.84	-0.88	1.13	-1.06	0.94	-1.11	1.50	-1.13
19	1.53	-1.16	1.98	-0.96	2.04	-0.58	1.34	-0.82	1.71	-1.07	1.88	-1.11
20	2.33	-0.73	2.15	-0.47	1.65	-1.17	1.13	-0.75	2.47	-0.29	1.96	-0.78
21	2.08	-0.60	2.24	-0.38	0.60	-1.20	1.05	-0.17	1.91	-0.34	1.81	-0.57
22	2.18	-0.43	1.81	-0.14	1.25	-0.52	1.05	-0.80	1.65	-0.80	1.33	-0.95
23	2.33	0.00	1.63	0.08	2.22	-0.02	1.31	-1.14	1.33	-1.17	1.36	-1.98
24	2.27	0.25	1.83	0.15	1.89	-0.08	1.97	-1.21	1.78	-1.66	1.76	-1.53
25	2.06	-0.15	1.59	-0.06	1.49	-0.57	1.67	-1.09	2.18	-1.60	1.99	-1.06
26	1.78	-0.89	1.65	-0.15	1.31	-1.05	1.74	-1.41	2.26	-1.17	1.98	-1.11
27	0.76	-0.95	1.97	-0.58	2.30	-1.33	1.99	-1.76	2.63	-1.09	1.92	-1.09
28	0.56	-0.99	2.25	-0.79	2.72	-0.85	1.99	-1.66	1.07	-1.67	1.66	-1.17
29	0.80	-1.00	2.30	-0.59	2.77	-0.38	2.13	-1.53	---	---	1.51	-1.11
30	1.30	-1.20	2.33	-0.84	2.42	-1.27	2.01	-1.52	---	---	2.06	-0.79
31	1.77	-0.79	---	---	2.10	-1.50	1.88	-1.20	---	---	2.47	-0.51
MONTH	3.14	-1.51	2.49	-1.77	2.84	-1.76	2.65	-1.99	2.63	-1.76	2.77	-2.50

TAMPA BAY AND COASTAL AREAS

02301805 PALM RIVER AT MOUTH AT TAMPA, FL--Continued

WATER-QUALITY RECORDS

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

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

REMARKS.--Specific conductance records poor, temperature records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 51,200 microsiemens, May 7, 2002; bottom sensor maximum, 50,500 microsiemens, July 31, 2001; top sensor minimum, 2,060 microsiemens, Sept. 15, 2001; bottom sensor minimum, 2,010 microsiemens, Sept. 15, 2001.

TEMPERATURE.--Top sensor maximum, 34.9°C, Aug. 12, 2001; bottom sensor maximum, 35.2°C, July 29, 2001; top sensor minimum, 12.8°C, Jan. 4, 9, 2002; bottom sensor minimum, 11.6°C, Jan. 8, 2002.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 51,200 microsiemens, May 7; bottom sensor maximum, 49,800 microsiemens, May 13, 14; top sensor minimum, 12,100 microsiemens, Aug. 14; bottom sensor minimum, 18,100 microsiemens, Sept. 11.

TEMPERATURE.--Top sensor maximum, 34.4°C, Aug. 17; bottom sensor maximum, 34.6°C, Aug. 17; top sensor minimum, 12.8°C, Jan. 4, 9; bottom sensor minimum, 11.6°C, Jan. 8.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	33100	29400	---	---	42000	40100	44400	42700	44000	42700	42900	39400
2	35600	29600	---	---	42300	39200	44900	41300	44100	39600	43400	42500
3	36100	29400	---	---	42600	42000	44500	40800	43300	41200	43500	41700
4	37100	33100	---	---	43600	42500	43300	40200	43000	40700	41700	37500
5	36700	31700	---	---	44100	43200	44700	42700	41600	40700	39800	39300
6	37400	33900	---	---	44000	43700	45400	43400	42700	39900	42900	42300
7	36700	27900	---	---	44000	39200	45300	42400	42700	34400	42600	40500
8	33900	32500	---	---	43700	35300	43400	41600	38900	32000	44100	41700
9	34100	32300	---	---	44000	34700	44200	40400	41300	37700	44500	42900
10	33700	32200	---	---	44100	38300	45300	40600	42100	38300	44500	42800
11	32500	31400	---	---	44000	33700	45300	39700	42000	27000	44600	43300
12	33000	29600	---	---	43300	40600	45300	41500	42200	36500	45500	44300
13	31700	30200	---	---	44100	42200	45300	39700	41600	32900	46100	42500
14	31800	28500	40900	40500	44800	40000	45400	35400	41600	35800	45400	40800
15	29700	23500	42400	40500	44600	35300	44500	35100	42000	41100	45300	42700
16	---	---	42200	39000	44400	43100	43400	32700	42100	39400	45900	39600
17	---	---	42100	39400	44400	39300	42800	37500	42800	39900	45500	38900
18	---	---	42700	41500	44600	39800	44200	39100	43000	37900	45400	42800
19	---	---	42500	40200	43800	30700	45000	38300	43000	41700	44800	40700
20	---	---	42900	40100	43000	35400	44600	42300	43500	42200	45800	43600
21	---	---	43100	39400	43100	41200	44800	37900	43600	41400	45500	43300
22	---	---	42800	40200	43500	41500	42600	35700	43100	35200	43000	42200
23	---	---	42700	40400	43700	42500	44100	42200	41400	30000	44300	42400
24	---	---	42200	40800	43800	42100	44500	42400	39700	33000	44600	43100
25	---	---	41900	40700	43100	40700	44800	42200	42000	36900	44700	43900
26	---	---	42200	40400	43400	38900	43900	38900	43400	41200	45400	44000
27	---	---	42500	41500	44100	39900	42900	38600	43600	42100	45300	38400
28	---	---	42400	41800	44600	40100	43900	41100	43200	36300	45000	39500
29	---	---	42200	41300	44800	42100	43900	41200	---	---	44600	42100
30	---	---	42100	40900	44500	33100	43700	39900	---	---	44500	42100
31	---	---	---	---	45200	39100	43600	41900	---	---	45000	41800
MONTH	37400	23500	43100	39000	45200	30700	45400	32700	44100	27000	46100	37500

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02301985 UPPER HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°12'51", long 82°07'49" (1927 North American datum), in NE $\frac{1}{4}$ sec.20, T.26 S., R.22 E., Pasco County, Hydrologic Unit 03100205, on right bank, 70 ft upstream from Upper Hillsborough Transect Site, 1.5 mi east of Zephyrhills Municipal Airport, and 3.5 mi southeast of Zephyrhills.

DRAINAGE AREA.--47.3 mi².

PERIOD OF RECORD.--June to September 2002 (gage heights only).

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

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 73.43 ft, Sept. 6; minimum, 67.04 ft, June 16.

GAGE HEIGHT, FEET, PERIOD JUNE TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	71.44	68.77	71.96
2	---	---	---	---	---	---	---	---	---	71.05	68.70	72.48
3	---	---	---	---	---	---	---	---	---	70.92	68.72	73.05
4	---	---	---	---	---	---	---	---	---	70.59	68.71	73.30
5	---	---	---	---	---	---	---	---	---	70.28	68.65	73.37
6	---	---	---	---	---	---	---	---	---	69.94	68.59	73.41
7	---	---	---	---	---	---	---	---	---	69.63	68.56	73.34
8	---	---	---	---	---	---	---	---	---	69.37	68.56	73.19
9	---	---	---	---	---	---	---	---	---	69.17	68.52	73.01
10	---	---	---	---	---	---	---	---	---	69.06	68.49	72.81
11	---	---	---	---	---	---	---	---	---	68.91	68.45	72.60
12	---	---	---	---	---	---	---	---	---	68.81	68.42	72.45
13	---	---	---	---	---	---	---	---	---	68.80	68.40	72.37
14	---	---	---	---	---	---	---	---	---	68.95	68.42	72.22
15	---	---	---	---	---	---	---	---	---	69.08	68.72	72.11
16	---	---	---	---	---	---	---	---	---	69.33	68.96	71.99
17	---	---	---	---	---	---	---	---	67.52	69.47	69.33	71.99
18	---	---	---	---	---	---	---	---	68.35	69.46	70.48	72.35
19	---	---	---	---	---	---	---	---	68.42	69.41	71.29	72.51
20	---	---	---	---	---	---	---	---	68.45	69.40	71.47	72.46
21	---	---	---	---	---	---	---	---	68.87	69.43	71.37	72.45
22	---	---	---	---	---	---	---	---	69.13	69.57	71.23	72.32
23	---	---	---	---	---	---	---	---	69.32	69.66	70.99	72.11
24	---	---	---	---	---	---	---	---	69.52	69.50	70.67	72.11
25	---	---	---	---	---	---	---	---	69.64	69.32	70.29	72.71
26	---	---	---	---	---	---	---	---	70.03	69.44	69.99	72.77
27	---	---	---	---	---	---	---	---	70.50	69.50	69.87	72.75
28	---	---	---	---	---	---	---	---	71.02	69.67	69.63	72.76
29	---	---	---	---	---	---	---	---	70.98	69.47	70.06	72.67
30	---	---	---	---	---	---	---	---	70.93	69.17	71.19	72.47
31	---	---	---	---	---	---	---	---	---	68.93	71.86	---
MEAN	---	---	---	---	---	---	---	---	69.48	69.57	69.59	72.60
MAX	---	---	---	---	---	---	---	---	71.02	71.44	71.86	73.41
MIN	---	---	---	---	---	---	---	---	67.52	68.80	68.40	71.96

HILLSBOROUGH RIVER BASIN

02301990 HILLSBOROUGH RIVER ABOVE CRYSTAL SPRINGS, NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°11'07", long 82°11'03" (1927 North American datum), in NW¼ sec.35, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, near center span, on downstream side of bridge on former State Highway 23, 0.2 mi upstream from Crystal Springs, 1.5 mi west of village of Crystal Springs, and 3.0 mi south of Zephyrhills.

DRAINAGE AREA.--82 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.

REVISIED RECORDS.--WRD FL-98-3A: 1997 (M and daily).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Sept. 12, 1941, nonrecording gage (reference point) at same site at datum 63.30 ft higher; Sept. 12, 1941, to May 14, 1964, nonrecording gage at same site at datum 50.97 ft higher; May 14, 1964, to June 1, 1994, water-stage recorder at same site at present datum.

REMARKS.--Records good. Discharge measurements made at this site are used in conjunction with those made downstream from Crystal Springs (station 02302000) to determine spring flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	20	16	13	15	15	10	7.7	9.8	165	30	218
2	238	20	16	17	15	15	10	7.8	9.0	128	29	236
3	197	20	16	18	14	15	12	7.8	8.6	113	39	289
4	161	20	15	16	14	17	12	7.5	8.4	104	36	376
5	133	20	15	15	14	16	11	7.2	8.3	91	29	424
6	111	19	15	16	14	15	11	7.0	8.3	76	25	444
7	93	18	15	16	15	15	10	7.0	8.3	60	23	440
8	77	18	15	16	16	15	9.9	7.1	9.6	47	23	420
9	65	17	15	15	15	14	9.7	7.1	8.7	41	21	383
10	54	17	15	15	15	14	9.4	6.9	8.5	37	20	345
11	46	17	15	15	15	14	9.1	6.7	8.7	34	19	314
12	41	17	15	14	15	14	9.0	6.7	8.8	33	18	301
13	38	17	15	15	15	16	9.5	6.7	8.5	35	18	296
14	35	18	15	18	15	15	9.7	6.9	8.6	41	19	265
15	34	18	15	23	14	14	12	6.8	9.6	41	30	249
16	31	18	15	21	14	13	12	6.7	9.8	42	34	225
17	29	17	15	19	14	13	11	6.8	11	42	51	211
18	27	17	15	18	14	12	10	6.7	16	41	130	267
19	26	17	15	17	14	12	9.6	7.3	16	39	147	272
20	25	18	15	17	13	12	9.2	7.4	19	38	160	279
21	26	18	14	18	13	12	9.0	7.1	24	40	149	269
22	28	17	14	18	14	12	8.9	6.9	30	50	136	263
23	27	17	14	17	20	12	8.7	6.6	40	59	117	249
24	25	17	14	17	25	12	8.5	6.6	47	50	98	240
25	25	17	14	16	20	11	8.4	6.5	46	46	79	302
26	24	17	14	15	18	12	8.1	6.5	47	43	66	356
27	22	17	14	15	17	12	7.9	6.5	54	43	65	353
28	21	16	14	15	16	11	7.6	6.8	74	45	53	344
29	21	16	13	15	---	11	7.5	7.9	87	46	66	336
30	20	16	13	15	---	10	7.6	11	112	41	141	316
31	20	---	13	15	---	10	---	8.7	---	35	188	---
TOTAL	2008	531	454	510	433	411	288.3	222.9	764.5	1746	2059	9282
MEAN	64.8	17.7	14.6	16.5	15.5	13.3	9.61	7.19	25.5	56.3	66.4	309
MAX	288	20	16	23	25	17	12	11	112	165	188	444
MIN	20	16	13	13	13	10	7.5	6.5	8.3	33	18	211
AC-FT	3980	1050	901	1010	859	815	572	442	1520	3460	4080	18410
CFSM	0.79	0.22	0.18	0.20	0.19	0.16	0.12	0.09	0.31	0.69	0.81	3.77
IN.	0.91	0.24	0.21	0.23	0.20	0.19	0.13	0.10	0.35	0.79	0.93	4.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	77.7	33.1	103	60.7	64.8	57.0	27.0	12.0	17.6	54.6	88.9	152
MAX	291	209	1139	529	622	496	132	25.9	35.0	327	371	515
(WY)	1996	1998	1998	1998	1998	1998	1996	1996	1991	1991	1995	2001
MIN	7.24	6.53	5.64	5.10	4.78	5.63	5.72	4.31	4.70	7.02	9.46	9.56
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	1993	2000

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1990 - 2002

ANNUAL TOTAL	20990.8	18709.7	
ANNUAL MEAN	57.5	51.3	62.4
HIGHEST ANNUAL MEAN			282
LOWEST ANNUAL MEAN			9.92
HIGHEST DAILY MEAN	1340	Sep 17	444
LOWEST DAILY MEAN	3.5	May 28	6.5
ANNUAL SEVEN-DAY MINIMUM	3.6	May 25	6.6
MAXIMUM PEAK FLOW			451
MAXIMUM PEAK STAGE			54.54
ANNUAL RUNOFF (AC-FT)	41640	37110	45200
ANNUAL RUNOFF (CFSM)	0.70	0.63	0.76
ANNUAL RUNOFF (INCHES)	9.52	8.49	10.34
10 PERCENT EXCEEDS	59	160	120
50 PERCENT EXCEEDS	6.9	16	16
90 PERCENT EXCEEDS	4.7	8.3	7.3

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54.16	52.14	51.93	51.81	51.88	51.98	51.74	51.64	51.77	53.67	52.45	53.90
2	53.99	52.14	51.92	51.94	51.87	51.96	51.74	51.64	51.71	53.46	52.42	53.94
3	53.82	52.14	51.92	52.00	51.86	51.98	51.81	51.64	51.69	53.36	52.63	54.11
4	53.65	52.12	51.91	51.95	51.84	52.04	51.85	51.63	51.68	53.30	52.59	54.37
5	53.49	52.12	51.89	51.91	51.83	52.00	51.81	51.60	51.67	53.20	52.43	54.48
6	53.35	52.09	51.89	51.93	51.84	51.97	51.78	51.59	51.66	53.07	52.32	54.52
7	53.21	52.06	51.91	51.95	51.90	51.95	51.76	51.59	51.66	52.90	52.26	54.51
8	53.08	52.04	51.91	51.92	51.94	51.93	51.75	51.60	51.74	52.76	52.27	54.46
9	52.96	52.03	51.90	51.90	51.91	51.92	51.73	51.59	51.68	52.66	52.21	54.35
10	52.84	52.03	51.90	51.88	51.90	51.91	51.72	51.58	51.67	52.58	52.18	54.23
11	52.74	52.03	51.90	51.87	51.91	51.90	51.70	51.56	51.67	52.51	52.13	54.13
12	52.66	52.02	51.90	51.86	51.90	51.90	51.69	51.56	51.68	52.49	52.09	54.09
13	52.59	52.02	51.90	51.88	51.89	51.99	51.72	51.57	51.66	52.53	52.11	54.06
14	52.54	52.04	51.89	51.98	51.87	51.95	51.74	51.58	51.67	52.66	52.15	53.96
15	52.51	52.05	51.88	52.16	51.85	51.89	51.86	51.57	51.71	52.65	52.46	53.90
16	52.43	52.03	51.88	52.10	51.84	51.85	51.87	51.57	51.73	52.67	52.56	53.81
17	52.39	52.01	51.88	52.04	51.84	51.84	51.81	51.57	51.80	52.68	52.79	53.75
18	52.35	52.01	51.90	51.99	51.84	51.83	51.78	51.56	52.04	52.66	53.52	53.96
19	52.32	52.01	51.89	51.97	51.83	51.82	51.75	51.61	52.00	52.61	53.63	53.98
20	52.30	52.02	51.88	51.97	51.82	51.82	51.72	51.62	52.08	52.60	53.71	54.00
21	52.32	52.01	51.86	52.01	51.81	51.82	51.71	51.60	52.28	52.63	53.64	53.97
22	52.36	52.00	51.85	51.99	51.85	51.82	51.71	51.58	52.43	52.77	53.57	53.95
23	52.33	51.99	51.83	51.98	52.12	51.81	51.70	51.56	52.66	52.89	53.45	53.90
24	52.30	51.99	51.84	51.96	52.29	51.81	51.69	51.56	52.77	52.80	53.32	53.86
25	52.28	51.99	51.83	51.94	52.15	51.80	51.68	51.55	52.76	52.75	53.17	54.09
26	52.25	51.98	51.84	51.91	52.07	51.81	51.67	51.55	52.78	52.70	53.04	54.27
27	52.21	51.97	51.83	51.89	52.03	51.83	51.65	51.55	52.85	52.70	53.03	54.26
28	52.18	51.95	51.83	51.89	51.99	51.79	51.63	51.57	53.05	52.74	52.90	54.23
29	52.16	51.94	51.82	51.89	---	51.77	51.62	51.64	53.17	52.75	53.01	54.20
30	52.14	51.94	51.80	51.89	---	51.75	51.63	51.84	53.32	52.67	53.57	54.14
31	52.14	---	51.81	51.89	---	51.74	---	51.71	---	52.55	53.79	---
MEAN	52.71	52.03	51.87	51.94	51.92	51.88	51.73	51.60	52.10	52.81	52.82	54.11
MAX	54.16	52.14	51.93	52.16	52.29	52.04	51.87	51.84	53.32	53.67	53.79	54.52
MIN	52.14	51.94	51.80	51.81	51.81	51.74	51.62	51.55	51.66	52.49	52.09	53.75

HILLSBOROUGH RIVER BASIN

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV 27...	1045	51.97	17	5	4.6	7.7	386	21.7	66.0	3.80	.60	6.2	11.0
JAN 22...	1037	51.99	18	10	5.5	7.1	398	21.3	69.0	3.90	.70	6.7	12.0
MAR 19...	1220	51.83	12	5	4.1	8.3	399	23.0	70.0	3.80	.70	6.4	11.0
MAY 14...	1101	51.59	7.0	<5	4.1	7.3	368	24.2	66.0	3.80	.50	6.1	11.0
JUL 09...	1049	52.67	42	240	4.5	6.8	266	24.8	42.0	3.50	1.60	6.0	11.0
SEP 09...	1130	54.36	388	480	4.0	6.3	119	25.7	20.0	2.00	2.10	4.2	6.80

Date	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 (MG/L AS N) (00630)	NITRO-GEN, NITRITE (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	TOTAL COLI-FORM, M ENDO MF, WTR (COL/100 ML) (31501)
NOV 27...	.2	8.90	12.0	222	<.20	.04	1.10	<.01	.050	E.06	4.7	5.2	680
JAN 22...	.1	7.30	13.0	236	.40	<.01	.910	<.01	.040	.04	4.5	5.1	733
MAR 19...	.1	8.90	13.0	239	.30	.04	1.40	<.01	.040	.04	3.5	3.7	4670
MAY 14...	.1	9.40	13.0	213	<.20	<.01	1.50	<.01	.040	.06	2.2	2.6	1500
JUL 09...	.2	8.20	8.00	204	1.0	.01	.420	.01	.230	.20	24.0	23.0	--
SEP 09...	.2	5.60	1.50	150	1.6	.02	.070	.02	.310	.25	37.0	23.0	5900

Date	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/100 ML) (31673)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV 27...	83	97	2.70	.60	<.050	1.00	.30	87	<.05	<.10	.50	190	1.0
JAN 22...	104	109	1.90	.70	<.050	1.10	.20	98	<.05	<.10	1.50	190	17.0
MAR 19...	1300	330	1.80	.90	<.050	3.00	.60	18	<.05	<.10	1.90	210	3.1
MAY 14...	490	430	.80	.80	<.050	2.90	<.20	8	<.05	<.10	1.10	210	1.2
JUL 09...	--	--	59.0	1.10	<.050	1.10	<.20	472	<.05	<.10	1.40	110	3.6
SEP 09...	20	616	180	.80	<.050	<.50	.50	722	.22	<.10	1.10	49.0	9.3

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	N-15 / N-14 STABLE ISOTOPE RATIO PER MIL (82084)
NOV 27...	--
JAN 22...	--
MAR 19...	--
MAY 14...	8.30
JUL 09...	--
SEP 09...	--

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

HILLSBOROUGH RIVER BASIN

02302000 CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°10'30", long 82°11'20" (1927 North American datum), 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.

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.

COOPERATION.--Diversion figures were provided by Southwest Florida Water Management District. Diversion figure published is an estimated daily average derived from reported monthly totals.

AVERAGE DISCHARGE.--477 measurements (1923, 1933, 1934-2002), 53.6 ft³/s, 34.6 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 2001 TO SEPTEMBER 2002

Date	Time	Hillsborough River		Difference or spring flow (cfs)	Diversion by pumping (cfs)
		Below Springs (cfs)	Above Springs (cfs)		
Oct. 31	1345	68	21	47	0.33
Nov. 29	1230	53	17	36	0.40
Dec. 21	1220	55	14	41	0.25
Feb. 01	1400	53	15	38	0.47
Feb. 28	1205	54	16	38	0.47
Mar. 21	1140	54	11	43	0.50
Apr. 26	1347	48	8.2	40	0.57
May 22	1520	39	6.8	32	0.54
July 23	1300	101	63	38	0.43
Aug. 26	1511	118	64	54	0.46

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02302280 ITCHEPACKESSA CREEK NEAR MORICZVILLE, FL

LOCATION.--Lat 28°07'29", long 82°06'47" (1927 North American datum), in SE¹/₄ sec.21, T.27 S., R.22 E., Hillsborough County, Hydrologic Unit 03100205, on downstream side of wooden bridge, near left edge of water, 1.3 mi south of confluence with Blackwater Creek, about 2.0 mi east of State Highway 39, and about 3.5 mi northeast of Knights.
DRAINAGE AREA.--110 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 2000 to September 2002 (discontinued).

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	11	12	4.3	3.6	18	1.4	1.1	25	127	145	176
2	49	13	e8.7	7.0	2.6	15	1.4	1.1	9.3	159	131	117
3	36	16	e8.0	8.1	2.4	16	1.6	1.1	4.3	190	106	72
4	30	14	e7.7	5.5	2.0	19	15	1.1	2.3	124	98	52
5	25	15	e7.3	4.8	1.6	23	10	1.0	1.9	88	124	69
6	22	14	e7.0	3.9	2.4	20	7.3	1.4	0.45	71	91	88
7	20	12	e6.8	3.6	6.0	17	6.8	2.0	26	49	54	58
8	20	10	e6.6	4.2	14	16	4.6	e0.99	84	41	57	39
9	21	11	e6.4	4.5	10	12	2.2	e0.14	49	67	49	31
10	20	11	e6.2	4.2	8.6	12	1.8	0.13	19	107	34	26
11	17	10	e6.0	4.0	9.2	13	2.0	0.44	9.8	69	26	43
12	15	9.6	e5.8	9.5	9.9	13	1.9	0.33	4.9	53	21	105
13	20	9.4	e5.6	11	9.2	11	3.7	0.32	21	55	21	147
14	12	9.4	e5.4	9.2	8.7	9.5	4.6	0.35	15	76	22	168
15	17	11	e5.2	22	8.4	8.9	4.0	0.24	9.4	50	48	112
16	14	9.9	e5.1	18	7.7	8.4	4.0	e0.13	24	34	50	70
17	11	9.2	5.0	13	8.2	6.9	3.6	e0.62	15	28	39	50
18	14	9.1	4.6	12	8.8	5.8	2.5	0.78	86	24	61	46
19	12	8.9	6.3	8.4	7.2	5.0	2.0	1.6	110	20	56	30
20	12	8.8	4.4	7.2	5.4	4.3	1.7	2.8	60	21	42	21
21	15	8.8	3.7	7.0	4.5	3.6	1.6	1.1	34	28	32	20
22	19	8.8	3.5	7.6	5.8	3.3	1.5	0.66	33	28	26	18
23	22	8.7	3.6	9.3	44	3.3	1.4	0.53	70	21	25	25
24	15	8.6	3.6	8.5	88	7.0	1.4	0.92	234	20	19	125
25	12	8.5	3.7	6.6	61	4.6	1.3	1.1	370	19	17	269
26	17	8.5	3.9	7.0	36	2.7	1.3	0.76	400	21	82	327
27	16	8.5	3.5	5.9	27	2.1	1.2	0.16	377	34	126	224
28	13	15	3.0	5.5	21	2.0	1.2	0.11	285	26	112	101
29	12	19	2.9	5.4	---	1.9	1.1	0.55	203	19	79	64
30	11	13	5.4	5.1	---	1.7	1.1	35	177	16	106	49
31	13	---	3.9	4.3	---	1.5	---	56	---	149	174	---
TOTAL	612	329.7	170.8	236.6	423.2	287.5	95.2	114.56	2759.35	1834	2073	2742
MEAN	19.7	11.0	5.51	7.63	15.1	9.27	3.17	3.70	92.0	59.2	66.9	91.4
MAX	60	19	12	22	88	23	15	56	400	190	174	327
MIN	11	8.5	2.9	3.6	1.6	1.5	1.1	0.11	0.45	16	17	18
MED	17	10	5.4	7.0	8.5	8.4	1.9	0.78	29	41	54	67
*PREC	0.68	1.00	1.77	1.58	2.62	0.67	1.44	---	5.54	4.89	4.78	5.38

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	13.4	6.28	3.39	4.53	8.33	11.6	7.95	2.18	49.6	66.2	90.5	134
MAX	19.7	11.0	5.51	7.63	15.1	13.9	12.7	3.70	92.0	73.2	114	177
(WY)	2002	2002	2002	2002	2002	2001	2001	2002	2002	2001	2001	2001
MIN	7.08	1.57	1.26	1.42	1.55	9.27	3.17	0.67	7.30	59.2	66.9	91.4
(WY)	2001	2001	2001	2001	2001	2002	2002	2001	2001	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	13369.57	11677.91		
ANNUAL MEAN	36.6	32.0	33.2	
HIGHEST ANNUAL MEAN			34.4	2001
LOWEST ANNUAL MEAN			32.0	2002
HIGHEST DAILY MEAN	664	Sep 16	400	Jun 26
LOWEST DAILY MEAN	0.00	Many Days	0.11	May 28
ANNUAL SEVEN-DAY MINIMUM	0.00	May 9	0.28	May 10
MAXIMUM PEAK FLOW			404	Jun 26
MAXIMUM PEAK STAGE			89.00	Jun 26
10 PERCENT EXCEEDS	96		88	91
50 PERCENT EXCEEDS	8.5		11	7.4
90 PERCENT EXCEEDS	0.07		1.4	0.85

*PRECIPITATION, TOTAL, INCHES

HILLSBOROUGH RIVER BASIN

02302280 ITCHEPACKESSA CREEK NEAR MORICZVILLE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2001, 2002 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV 28...	1013	84.84	15	5	7.7	7.2	414	18.8	62.0	4.00	.40	5.7	10.0
JAN 23...	1045	84.66	9.3	50	7.9	7.9	740	20.4	51.0	7.70	18.0	75.0	83.0
MAR 20...	1145	84.40	4.3	50	6.6	8.0	399	22.4	40.0	5.80	7.70	27.0	35.0
MAY 08...	1030	84.22	1.2	20	--	8.4	1730	24.4	85.0	11.0	55.0	240	240
JUL 10...	1010	86.47	112	200	5.5	7.0	242	25.8	26.0	4.50	6.00	12.0	19.0
SEP 10...	1025	85.11	27	120	6.1	6.5	356	26.3	33.0	4.90	8.60	27.0	33.0

Date	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 (MG/L AS N) (00630)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	TOTAL COLI-FORM, M ENDO MF, WTR (COL/100 ML) (31501)
NOV 28...	.1	10.0	9.60	218	<.20	.01	1.80	<.01	.060	E.03	2.9	3.7	3200
JAN 23...	.4	6.70	73.0	445	1.1	.03	.200	<.01	.370	.35	14.0	14.0	1470
MAR 20...	.4	5.50	26.0	245	.90	.09	.330	.02	.490	.54	12.0	12.0	700
MAY 08...	.6	10.0	190	1040	.90	.09	.140	<.01	.290	.29	10.0	11.0	1030
JUL 10...	.3	8.60	18.0	198	2.1	.08	.320	.03	.650	.68	25.0	25.0	--
SEP 10...	.4	9.90	24.0	234	1.5	.04	.390	.02	.450	.54	18.0	18.0	10300

Date	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/100 ML) (31673)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV 28...	1700	1030	.80	.50	<.050	.70	<.20	19	<.05	<.10	<.20	210	<.5
JAN 23...	500	240	10.0	2.30	.060	.80	.90	104	.25	<.10	2.00	130	18.0
MAR 20...	96	270	10.0	3.10	<.050	5.60	1.00	83	.13	<.10	2.10	86.0	4.7
MAY 08...	240	295	3.70	1.60	.130	7.70	2.60	26	.27	<.10	3.50	310	13.0
JUL 10...	--	--	97.0	2.90	<.050	.90	.70	357	.13	<.10	1.10	59.0	7.3
SEP 10...	30	967	34.0	2.10	<.050	<.50	.90	247	.20	<.10	1.50	89.0	9.2

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02302280 ITCHEPACKESSA CREEK NEAR MORICZVILLE, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	N-15 / N-14	URANIUM	U-234	URANIUM	U-235	URANIUM	U-238	URANIUM
	STABLE ISOTOPE RATIO	NATURAL DIS- SOLVED	2 SIGMA WATER, DISS, (PCI/L)	-234 WATER, DISSOLV (PCI/L)	2 SIGMA WATER, DISS, (PCI/L)	-235 WATER, DISS, (PCI/L)	2 SIGMA WATER, DISS, (PCI/L)	-238 WATER, DISSOLV (PCI/L)
	PER MIL (82084)	(UG/L AS U) (22703)	(75992)	(22610)	(75994)	(22620)	(75991)	(22603)
NOV 28...	--	--	--	--	--	--	--	--
JAN 23...	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--
MAY 08...	7.50	.518	.06	.2	.01	M	.05	.2
JUL 10...	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--

Remark codes used in this report:

< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

HILLSBOROUGH RIVER BASIN

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL

LOCATION.--Lat 28°08'25", long 82°09'00" (1927 North American datum), in NW¼ 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, 1984, at site 900 ft downstream at datum 70.56 ft higher; Oct. 1, 1984, to Sept. 30, 1987, at former site at present datum.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	13	16	5.7	4.9	25	3.8	0.26	29	268	175	312
2	71	14	12	8.4	4.1	22	3.6	0.20	9.7	295	151	233
3	55	19	7.7	11	3.8	21	4.1	0.14	5.2	296	136	151
4	47	18	6.4	8.1	3.5	23	12	0.12	3.0	205	126	101
5	40	17	6.0	6.9	3.2	28	13	0.12	3.1	152	172	101
6	36	17	5.9	6.6	3.1	26	9.7	0.11	1.8	130	135	124
7	32	14	5.9	5.9	6.2	23	8.5	0.09	31	84	85	87
8	32	12	6.6	6.0	11	21	7.1	0.07	169	67	85	64
9	33	12	9.1	6.9	11	17	4.9	0.05	72	86	74	61
10	31	12	8.3	6.6	9.1	16	3.8	0.04	26	137	50	49
11	27	12	7.3	6.0	9.0	17	3.8	0.03	13	96	36	67
12	22	10	8.1	9.0	9.2	16	3.9	0.02	7.5	78	29	153
13	27	9.1	6.8	14	8.3	16	4.6	0.01	23	138	25	223
14	20	10	6.2	13	7.9	13	6.0	0.01	21	251	32	237
15	22	13	6.9	24	7.7	12	6.9	0.01	11	138	103	189
16	20	13	8.0	22	7.2	12	5.8	0.00	23	90	104	130
17	17	10	8.4	14	7.0	11	5.5	0.00	19	68	101	107
18	17	9.6	7.3	12	7.8	9.6	4.7	0.00	94	56	197	90
19	17	8.9	8.6	10	6.8	8.4	3.7	0.04	153	43	146	64
20	16	8.8	7.3	8.3	5.6	7.6	3.3	0.04	95	40	104	47
21	20	8.9	6.0	8.1	4.9	6.9	2.9	0.31	55	48	76	44
22	25	8.8	5.4	8.0	6.2	6.5	2.7	0.42	54	57	58	40
23	28	8.5	5.2	10	39	6.2	2.3	0.13	139	49	50	56
24	23	8.7	5.4	9.9	110	7.6	1.8	0.05	461	38	35	204
25	18	9.6	5.4	8.2	81	9.0	1.4	0.02	603	34	27	506
26	20	7.5	5.8	7.3	49	6.2	0.97	0.01	522	39	131	450
27	21	7.1	5.6	6.5	37	5.3	0.72	0.02	458	82	194	325
28	17	12	4.8	6.2	29	4.9	0.54	0.03	359	57	173	180
29	15	23	4.6	5.9	---	4.6	0.46	0.10	256	38	145	128
30	13	19	6.3	5.9	---	4.3	0.34	38	249	26	251	100
31	15	---	6.1	5.3	---	4.0	---	53	---	148	382	---
TOTAL	884	365.5	219.4	285.7	492.5	410.1	132.83	93.45	3965.3	3334	3588	4623
MEAN	28.5	12.2	7.08	9.22	17.6	13.2	4.43	3.01	132	108	116	154
MAX	87	23	16	24	110	28	13	53	603	296	382	506
MIN	13	7.1	4.6	5.3	3.1	4.0	0.34	0.00	1.8	26	25	40
AC-FT	1750	725	435	567	977	813	263	185	7870	6610	7120	9170
CFSM	0.26	0.11	0.06	0.08	0.16	0.12	0.04	0.03	1.20	0.98	1.05	1.40
IN.	0.30	0.12	0.07	0.10	0.17	0.14	0.04	0.03	1.34	1.13	1.21	1.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
	73.2	362	1960	5.92	1981
	35.1	244	1998	0.62	2001
	48.5	882	1998	0.65	2001
	50.0	229	1964	1.13	2001
	60.6	457	1998	0.93	2001
	94.5	729	1960	2.12	2000
	36.2	276	1959	0.86	1985
	24.9	232	1957	0.011	1985
	66.5	345	1959	3.42	1985
	103	419	1991	12.0	1989
	158	655	1965	19.1	1956
	191	833	1960	13.9	1972

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1952 - 2002

ANNUAL TOTAL	16524.94	18393.78	
ANNUAL MEAN	45.3	50.4	78.6
HIGHEST ANNUAL MEAN			257
LOWEST ANNUAL MEAN			18.3
HIGHEST DAILY MEAN	1320	Sep 15	603
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	May 9	0.01
MAXIMUM PEAK FLOW			648
MAXIMUM PEAK STAGE			77.09
ANNUAL RUNOFF (AC-FT)	32780	36480	56950
ANNUAL RUNOFF (CFSM)	0.41	0.46	0.71
ANNUAL RUNOFF (INCHES)	5.59	6.22	9.71
10 PERCENT EXCEEDS	111	147	182
50 PERCENT EXCEEDS	6.4	13	24
90 PERCENT EXCEEDS	0.02	1.8	5.1

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73.08	72.16	72.21	71.96	71.94	72.26	71.75	71.50	72.35	74.72	73.88	75.06
2	72.91	72.19	72.13	72.06	71.90	72.21	71.74	71.49	72.02	74.94	73.65	74.41
3	72.74	72.29	72.02	72.14	71.88	72.20	71.76	71.47	71.87	74.95	73.50	73.62
4	72.64	72.27	71.97	72.06	71.87	72.23	72.00	71.46	71.76	74.20	73.40	73.10
5	72.57	72.27	71.96	72.02	71.85	72.31	72.04	71.46	71.77	73.72	73.86	73.10
6	72.50	72.25	71.95	72.01	71.85	72.27	71.96	71.46	71.67	73.51	73.49	73.33
7	72.45	72.19	71.95	71.98	71.99	72.23	71.94	71.46	72.09	73.08	72.99	72.95
8	72.44	72.15	71.98	71.98	72.14	72.20	71.89	71.44	73.78	72.92	73.00	72.71
9	72.43	72.14	72.06	72.02	72.13	72.14	71.81	71.42	72.82	73.11	72.88	72.68
10	72.40	72.16	72.04	72.01	72.09	72.11	71.76	71.41	72.32	73.61	72.64	72.55
11	72.36	72.14	72.01	71.99	72.08	72.13	71.76	71.40	72.10	73.18	72.49	72.72
12	72.29	72.10	72.04	72.08	72.09	72.12	71.76	71.38	71.96	72.98	72.41	73.60
13	72.37	72.07	71.99	72.21	72.06	72.11	71.81	71.37	72.20	73.51	72.36	74.29
14	72.26	72.10	71.97	72.18	72.05	72.06	71.87	71.37	72.25	74.57	72.44	74.42
15	72.29	72.16	72.00	72.38	72.05	72.03	71.90	71.36	72.06	73.52	73.16	73.96
16	72.26	72.17	72.03	72.35	72.03	72.02	71.86	71.34	72.28	73.03	73.17	73.34
17	72.21	72.09	72.05	72.21	72.02	71.99	71.85	71.33	72.23	72.82	73.15	73.09
18	72.22	72.08	72.01	72.17	72.05	71.96	71.81	71.32	73.03	72.70	74.10	72.91
19	72.22	72.06	72.05	72.12	72.01	71.93	71.77	71.41	73.65	72.57	73.60	72.65
20	72.20	72.06	72.01	72.07	71.97	71.90	71.75	71.41	73.05	72.54	73.17	72.47
21	72.28	72.06	71.97	72.06	71.94	71.88	71.73	71.49	72.66	72.62	72.90	72.43
22	72.36	72.06	71.95	72.05	71.97	71.86	71.71	71.53	72.64	72.71	72.72	72.39
23	72.40	72.05	71.95	72.12	72.42	71.85	71.68	71.47	73.47	72.63	72.64	72.55
24	72.33	72.06	71.95	72.11	73.15	71.90	71.65	71.42	76.07	72.52	72.49	73.96
25	72.25	72.08	71.95	72.06	72.85	71.94	71.62	71.38	76.88	72.48	72.38	76.35
26	72.29	72.02	71.97	72.03	72.53	71.85	71.58	71.36	76.45	72.53	73.44	76.01
27	72.31	72.00	71.96	72.00	72.41	71.82	71.56	71.38	76.06	72.96	74.07	75.13
28	72.23	72.12	71.93	71.99	72.32	71.80	71.53	71.39	75.41	72.72	73.87	73.85
29	72.20	72.34	71.92	71.98	---	71.79	71.52	71.38	74.62	72.51	73.58	73.29
30	72.17	72.27	71.98	71.98	---	71.77	71.51	72.42	74.55	72.37	74.56	73.00
31	72.22	---	71.98	71.96	---	71.76	---	72.63	---	73.62	75.58	---
MEAN	72.38	72.14	72.00	72.08	72.13	72.02	71.76	71.49	73.20	73.22	73.28	73.53
MAX	73.08	72.34	72.21	72.38	73.15	72.31	72.04	72.63	76.88	74.95	75.58	76.35
MIN	72.17	72.00	71.92	71.96	71.85	71.76	71.51	71.32	71.67	72.37	72.36	72.39

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV 28...	0920	71.99	6.9	30	5.4	7.3	622	19.6	59.0	8.10	13.0	48.0	53.0
JAN 23...	0858	72.12	10	60	5.8	8.4	387	20.1	43.0	6.20	6.10	21.0	30.0
MAR 20...	1045	71.90	7.5	40	4.0	7.9	437	22.0	50.0	6.30	6.90	25.0	32.0
MAY 06...	1110	71.47	.12	30	4.4	8.1	876	25.4	80.0	8.10	18.0	79.0	85.0
JUL 10...	0908	73.71	147	280	6.3	6.0	218	25.5	25.0	4.30	4.70	11.0	17.0
SEP 10...	0939	72.58	53	160	6.1	6.9	309	26.1	33.0	4.70	6.20	20.0	27.0

Date	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	TOTAL COLI-FORM, M ENDO MF, WTR (COL/100 ML) (31501)
NOV 28...	.4	10.0	51.0	368	E.50	.03	.660	.01	.320	E.28	10.0	11.0	833
JAN 23...	.4	2.50	25.0	236	.90	.01	.170	<.01	.350	.38	13.0	13.0	867
MAR 20...	.4	6.90	25.0	278	.80	.08	.290	.02	.470	.51	10.0	10.0	300
MAY 06...	.4	7.00	67.0	516	.90	.10	.050	<.01	.510	.55	8.5	10.0	60
JUL 10...	.3	8.60	14.0	187	1.5	.06	.220	.02	.650	.55	26.0	28.0	--
SEP 10...	.4	11.0	18.0	223	1.3	.04	.240	.02	.480	.46	22.0	24.0	6000

Date	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/100 ML) (31673)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV 28...	127	68	7.50	1.10	<.050	1.00	.50	64	<.05	<.10	.90	170	5.5
JAN 23...	80	81	6.40	2.00	<.050	<.50	.70	100	.09	<.10	1.50	110	17.0
MAR 20...	54	107	5.80	2.50	<.050	6.00	1.00	77	.13	<.10	2.10	150	4.5
MAY 06...	80	95	1.70	1.60	.080	4.60	1.00	26	.06	<.10	2.10	350	4.5
JUL 10...	--	--	130	2.20	<.050	.90	.70	375	.17	<.10	1.00	60.0	8.5
SEP 10...	26	667	91.0	1.50	<.050	.70	.60	336	.18	<.10	1.40	99.0	8.6

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	N-15 / N-14 STABLE ISOTOPE RATIO PER MIL (82084)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	U-234 URANIUM 2 SIGMA WATER, DISS, (PCI/L) (75992)	URANIUM -234 2 SIGMA WATER DISSOLV (PCI/L) (22610)	U-235 URANIUM 2 SIGMA WATER, DISS, (PCI/L) (75994)	URANIUM -235 2 SIGMA WATER, DISS (PCI/L) (22620)	U-238 URANIUM 2 SIGMA WATER, DISS, (PCI/L) (75991)	URANIUM -238 WATER DISSOLV (PCI/L) (22603)
NOV 28...	--	--	--	--	--	--	--	--
JAN 23...	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--
MAY 06...	11.30	.533	.06	.2	.01	M	.05	.2
JUL 10...	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--

Remark codes used in this report:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°08'59", long 82°13'57" (1927 North American datum), in SW¼ 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 except those for estimated daily discharges, which are poor. Records include high-water diversions upstream from station from the Withlacoochee River basin through Withlacoochee-Hillsborough overflow near Richland (station 02311000).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	495	89	81	68	69	79	55	45	94	537	279	625
2	419	87	80	74	66	76	55	45	68	481	238	565
3	359	90	75	81	62	73	59	46	57	469	247	510
4	300	91	72	77	60	77	64	46	51	401	230	511
5	265	89	71	72	59	80	71	45	47	326	252	543
6	232	88	70	73	59	79	67	44	47	304	235	584
7	209	84	71	73	62	75	63	44	45	246	193	562
8	189	81	71	69	69	73	61	44	166	210	181	523
9	175	80	73	67	74	70	59	44	133	206	172	493
10	163	81	75	68	71	67	56	43	90	246	151	447
11	152	81	74	67	70	67	54	42	70	226	132	415
12	141	79	73	66	70	68	56	42	61	201	122	461
13	e135	77	73	72	70	72	59	42	56	209	117	556
14	e132	78	72	78	69	72	59	43	80	393	122	545
15	e124	81	72	90	68	74	61	43	69	284	178	510
16	e123	83	73	95	68	72	62	41	72	227	213	434
17	e117	80	73	87	67	70	59	36	83	201	229	397
18	e112	78	74	82	66	67	57	36	111	189	506	425
19	107	77	73	81	66	66	55	41	193	171	428	400
20	104	76	73	78	64	65	54	40	168	158	398	377
21	109	76	71	78	62	64	53	39	146	169	368	360
22	116	77	69	76	63	63	52	37	130	232	345	347
23	118	77	69	76	79	63	51	37	182	284	303	348
24	116	76	69	78	146	62	50	36	459	215	261	393
25	108	76	68	76	140	64	49	36	599	200	226	751
26	101	74	69	73	107	63	49	36	638	198	238	818
27	102	73	70	73	92	61	48	37	561	216	329	747
28	e99	73	69	72	83	59	47	37	493	204	305	561
29	e95	82	68	71	---	57	46	37	415	182	285	475
30	e92	85	67	70	---	57	46	68	404	163	470	428
31	90	---	68	70	---	56	---	89	---	202	651	---
TOTAL	5199	2419	2226	2331	2101	2111	1677	1341	5788	7950	8404	15111
MEAN	168	80.6	71.8	75.2	75.0	68.1	55.9	43.3	193	256	271	504
MAX	495	91	81	95	146	80	71	89	638	537	651	818
MIN	90	73	67	66	59	56	46	36	45	158	117	347
MED	123	80	72	73	68	67	56	42	103	215	238	502
CFSM	0.76	0.37	0.33	0.34	0.34	0.31	0.25	0.20	0.88	1.17	1.23	2.29
IN.	0.88	0.41	0.38	0.39	0.36	0.36	0.28	0.23	0.98	1.34	1.42	2.56

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

	2001	2001	2001	2001	2001	2000	2000	2001	2000	2000	1956	1978
MEAN	257	134	161	172	186	271	169	97.5	175	301	432	534
MAX	944	512	2234	868	1247	2093	942	333	849	1959	1468	2280
(WY)	1960	1998	1998	1948	1998	1960	1941	1957	1959	1945	1945	1960
MIN	57.4	42.1	40.4	39.6	37.3	47.4	43.7	30.5	33.0	57.5	83.0	91.9
(WY)	2001	2001	2001	2001	2001	2000	2000	2001	2000	2000	1956	1978

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1940 - 2002

ANNUAL TOTAL	57351	56658	
ANNUAL MEAN	157	155	241
HIGHEST ANNUAL MEAN			745
LOWEST ANNUAL MEAN			64.9
HIGHEST DAILY MEAN	3200	Sep 16	818
LOWEST DAILY MEAN	27	May 24	36
ANNUAL SEVEN-DAY MINIMUM	28	May 18	37
MAXIMUM PEAK FLOW			826
MAXIMUM PEAK STAGE			5.28
ANNUAL RUNOFF (CFSM)	0.71	0.71	15.33
ANNUAL RUNOFF (INCHES)	9.70	9.58	1.10
10 PERCENT EXCEEDS	285	417	14.89
50 PERCENT EXCEEDS	67	78	515
90 PERCENT EXCEEDS	32	49	113
			66

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.64	1.08	0.98	0.84	0.87	1.01	0.76	0.63	1.05	3.75	2.29	4.28
2	3.23	1.06	0.97	0.91	0.84	0.98	0.75	0.63	0.81	3.46	2.02	3.96
3	2.89	1.09	0.92	0.97	0.80	0.96	0.79	0.63	0.69	3.40	2.08	3.65
4	2.53	1.10	0.89	0.93	0.78	0.99	0.84	0.62	0.63	3.02	1.97	3.66
5	2.31	1.09	0.88	0.90	0.77	1.02	0.91	0.61	0.59	2.58	2.11	3.83
6	2.09	1.08	0.87	0.91	0.77	1.01	0.87	0.60	0.58	2.45	2.00	4.06
7	1.94	1.05	0.88	0.91	0.80	0.98	0.83	0.60	0.56	2.07	1.72	3.94
8	1.80	1.02	0.88	0.87	0.87	0.96	0.81	0.60	1.57	1.83	1.63	3.72
9	1.70	1.00	0.89	0.85	0.92	0.93	0.79	0.60	1.34	1.80	1.57	3.56
10	1.61	1.01	0.91	0.86	0.89	0.90	0.76	0.59	0.98	2.08	1.41	3.29
11	1.53	1.01	0.90	0.85	0.88	0.89	0.74	0.58	0.79	1.94	1.27	3.11
12	1.45	0.99	0.89	0.84	0.88	0.90	0.75	0.58	0.70	1.77	1.18	3.37
13	---	0.97	0.89	0.90	0.88	0.94	0.78	0.57	0.64	1.82	1.15	3.90
14	---	0.98	0.88	0.95	0.87	0.94	0.78	0.58	0.87	2.97	1.18	3.85
15	---	1.01	0.87	1.06	0.86	0.96	0.80	0.58	0.76	2.32	1.61	3.65
16	---	1.02	0.88	1.11	0.86	0.94	0.81	0.56	0.79	1.95	1.86	3.22
17	---	0.99	0.88	1.04	0.85	0.92	0.78	0.51	0.89	1.78	1.96	3.00
18	---	0.97	0.89	0.99	0.84	0.89	0.76	0.51	1.11	1.69	3.59	3.17
19	1.20	0.96	0.88	0.98	0.84	0.88	0.74	0.56	1.74	1.56	3.17	3.02
20	1.17	0.96	0.88	0.95	0.82	0.87	0.73	0.55	1.56	1.46	3.00	2.88
21	1.21	0.95	0.86	0.95	0.80	0.86	0.72	0.54	1.39	1.54	2.83	2.78
22	1.28	0.95	0.85	0.94	0.81	0.84	0.70	0.52	1.26	1.97	2.69	2.71
23	1.30	0.95	0.85	0.94	0.98	0.84	0.69	0.51	1.65	2.32	2.44	2.73
24	1.29	0.94	0.85	0.95	1.57	0.83	0.69	0.50	3.33	1.87	2.17	3.04
25	1.22	0.94	0.84	0.93	1.53	0.85	0.67	0.50	4.07	1.76	1.94	4.93
26	1.17	0.93	0.85	0.91	1.26	0.84	0.67	0.49	4.27	1.75	2.02	5.24
27	1.18	0.92	0.86	0.91	1.13	0.82	0.66	0.50	3.88	1.88	2.60	4.91
28	---	0.91	0.85	0.90	1.05	0.80	0.65	0.50	3.52	1.79	2.45	4.00
29	---	0.99	0.85	0.89	---	0.78	0.64	0.51	3.09	1.64	2.33	3.55
30	---	1.02	0.84	0.88	---	0.78	0.64	0.81	3.03	1.50	3.42	3.29
31	1.08	---	0.85	0.88	---	0.77	---	1.01	---	1.76	4.41	---
MEAN	---	1.00	0.88	0.93	0.93	0.90	0.75	0.58	1.60	2.11	2.20	3.61
MAX	---	1.10	0.98	1.11	1.57	1.02	0.91	1.01	4.27	3.75	4.41	5.24
MIN	---	0.91	0.84	0.84	0.77	0.77	0.64	0.49	0.56	1.46	1.15	2.71

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

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

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

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

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 655 microsiemens, Mar. 31, 2001; minimum, 92 microsiemens, Sept. 15, 2001.

PH UNITS.--Maximum, 8.7 standard units, Mar. 1, 2002; minimum, 6.7 standard units, Sept. 15, 16, 2001, June 25, 26, 2002.

TEMPERATURE.--Maximum, 27.4°C, Aug. 9, 2001; minimum, 15.6°C, Jan. 5, 2002.

DISSOLVED OXYGEN.--Maximum, 10.8 mg/L, May 16, 2002; minimum, 3.2 mg/L, Sept. 28, 2001, Oct. 11, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 516 microsiemens, June 8; minimum, 150 microsiemens, June 25.

PH UNITS.--Maximum, 8.7 standard units, Mar. 1; minimum, 6.7 standard units, June 25, 26.

TEMPERATURE.--Maximum, 27.0°C, July 18; minimum, 15.6°C, Jan. 5.

DISSOLVED OXYGEN.--Maximum, 10.8 mg/L, May 16; minimum, 3.2 mg/L, Oct. 11.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	200	192	396	391	440	403	395	392	409	401	395	387
2	214	200	397	395	403	369	398	387	409	397	396	386
3	229	214	402	396	369	361	421	396	398	390	386	384
4	247	229	399	392	363	359	420	391	392	387	389	385
5	266	247	415	399	362	360	404	389	395	384	389	383
6	286	266	425	415	370	362	415	404	388	384	383	379
7	304	286	420	398	387	369	414	408	389	380	379	371
8	323	304	398	377	397	387	414	412	408	387	398	371
9	334	323	378	373	402	397	415	411	427	408	403	398
10	345	330	396	373	402	391	417	409	411	387	404	401
11	362	344	376	373	391	383	409	393	449	384	408	403
12	373	362	377	375	385	380	394	388	461	436	409	396
13	390	372	380	375	388	385	401	387	436	422	397	376
14	397	390	393	380	391	387	400	392	422	407	395	376
15	391	357	399	393	401	390	438	394	414	409	405	395
16	380	371	406	399	418	401	486	438	410	398	406	403
17	---	---	406	394	418	412	485	408	398	386	409	406
18	---	---	395	391	412	392	439	382	388	384	408	402
19	---	---	392	388	392	386	382	371	389	385	402	393
20	372	370	403	388	393	388	377	372	387	383	395	391
21	395	370	409	402	392	388	381	377	388	383	393	389
22	430	395	407	397	400	382	386	381	387	381	392	387
23	445	397	398	396	387	382	397	385	426	383	389	383
24	454	421	397	394	395	386	398	384	490	405	384	379
25	421	394	395	392	396	391	385	378	405	340	386	379
26	394	367	394	391	392	384	378	374	359	340	386	378
27	384	379	392	388	385	377	388	375	374	359	379	373
28	---	---	391	388	377	374	411	388	389	374	375	372
29	---	---	423	390	377	375	415	411	---	---	374	368
30	---	---	448	423	380	376	415	412	---	---	371	368
31	---	---	---	---	392	379	414	401	---	---	371	368
MONTH	---	---	448	373	440	359	486	371	490	340	409	368

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	371	368	368	358	360	279	238	198	295	218	213	201
2	371	368	363	357	347	333	237	218	296	247	228	213
3	371	365	363	357	347	336	232	221	291	257	230	225
4	385	368	363	357	354	347	253	227	317	290	231	222
5	450	385	363	357	357	354	280	253	315	270	222	214
6	437	400	362	356	358	355	284	268	288	261	218	181
7	400	383	363	355	365	355	304	283	315	288	183	181
8	384	381	362	355	516	171	322	304	346	315	188	183
9	387	382	361	355	267	206	331	320	350	339	191	186
10	382	369	361	354	325	267	321	278	355	341	195	186
11	370	364	360	354	353	325	308	277	361	349	217	195
12	366	358	361	353	371	353	339	308	358	350	244	217
13	361	355	360	353	375	370	356	339	378	358	221	209
14	367	361	360	352	407	374	357	233	392	378	229	210
15	371	366	359	353	407	363	291	250	439	379	247	229
16	375	371	359	354	363	320	301	290	406	317	253	247
17	384	375	362	355	345	317	310	297	328	297	259	253
18	391	384	360	355	388	345	317	300	297	209	254	244
19	391	388	358	354	386	264	338	317	256	235	267	253
20	388	380	358	354	291	263	346	321	256	251	264	257
21	380	373	360	356	342	291	343	319	262	250	259	254
22	374	368	359	355	360	342	345	255	265	254	256	253
23	371	366	358	355	398	318	299	244	281	257	265	255
24	368	363	358	355	318	166	350	286	311	281	283	261
25	367	361	358	353	177	150	341	314	323	311	261	199
26	366	361	358	353	190	154	381	328	359	313	208	199
27	365	360	357	349	212	190	402	351	346	231	217	208
28	364	359	358	354	223	209	351	307	270	240	222	217
29	364	359	359	351	240	221	326	315	275	261	233	221
30	364	358	430	343	241	226	346	324	275	218	238	233
31	---	---	468	289	---	---	401	295	218	195	---	---
MONTH	450	355	468	289	516	150	402	198	439	195	283	181

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.3	7.2	7.3	7.2	7.7	7.7	8.0	7.9	7.9	7.7	8.7	8.5
2	7.3	7.3	7.3	7.3	7.7	7.7	8.0	7.9	8.1	7.7	8.5	8.3
3	7.4	7.3	7.3	7.3	7.8	7.7	7.9	7.8	8.0	7.7	8.3	8.1
4	8.4	7.3	7.3	7.3	7.8	7.6	8.0	7.9	8.0	7.8	8.4	8.1
5	7.5	7.2	7.5	7.3	7.8	7.8	8.1	8.0	8.2	7.8	8.5	8.4
6	7.3	7.3	7.5	7.5	7.8	7.8	8.0	7.9	8.2	7.9	8.5	8.3
7	7.3	7.3	7.5	7.5	7.8	7.7	8.0	7.9	8.0	7.9	8.4	8.2
8	7.4	7.3	7.6	7.5	7.8	7.7	8.1	7.9	8.0	7.9	8.3	8.0
9	7.4	7.4	7.6	7.6	7.8	7.7	8.1	8.0	8.2	7.9	8.0	7.7
10	7.4	7.4	7.9	7.6	7.8	7.7	8.1	8.0	8.1	8.0	7.9	7.8
11	7.5	7.4	7.6	7.6	7.8	7.7	8.1	8.0	8.1	8.0	8.0	7.8
12	7.5	7.5	7.7	7.6	7.8	7.7	8.1	8.0	8.3	8.0	8.0	7.7
13	7.5	7.5	7.9	7.5	7.8	7.8	8.0	7.9	8.3	8.1	7.9	7.7
14	7.6	7.5	7.9	7.9	7.8	7.5	8.0	7.8	8.3	8.1	7.8	7.7
15	7.6	7.5	7.9	7.9	7.7	7.6	7.8	7.7	8.4	8.1	7.9	7.8
16	7.6	7.6	7.9	7.8	7.7	7.6	7.8	7.7	8.4	8.2	7.9	7.7
17	---	---	7.9	7.8	7.7	7.6	7.9	7.8	8.4	8.2	7.8	7.7
18	---	---	7.9	7.8	7.7	7.6	7.8	7.7	8.6	8.4	7.8	7.7
19	---	---	7.9	7.8	7.7	7.6	7.8	7.7	8.6	8.0	7.8	7.6
20	7.7	7.7	7.9	7.8	7.7	7.7	7.8	7.7	8.5	8.3	7.8	7.6
21	7.7	7.6	7.9	7.8	7.8	7.7	7.8	7.7	8.5	8.3	7.7	7.6
22	7.7	7.7	7.9	7.8	7.8	7.7	7.8	7.7	8.3	8.2	7.8	7.6
23	7.7	7.7	7.8	7.8	7.8	7.7	7.8	7.6	8.4	8.2	7.9	7.7
24	7.7	7.7	7.8	7.7	7.7	7.7	7.8	7.7	8.6	8.4	7.9	7.7
25	7.7	7.7	7.8	7.7	7.7	7.7	7.9	7.7	8.6	8.5	7.8	7.6
26	7.7	7.7	7.8	7.7	8.0	7.7	7.9	7.7	8.6	8.4	7.8	7.6
27	7.8	7.7	7.8	7.8	8.1	8.0	7.9	7.6	8.4	8.3	7.8	7.6
28	---	---	7.8	7.7	8.0	7.9	7.7	7.6	8.6	8.4	7.8	7.6
29	---	---	7.7	7.7	8.0	7.9	7.8	7.6	---	---	7.8	7.6
30	---	---	7.7	7.7	8.0	7.9	7.8	7.6	---	---	7.7	7.5
31	---	---	---	---	8.0	7.9	7.8	7.7	---	---	7.7	7.4
MONTH	---	---	7.9	7.2	8.1	7.5	8.1	7.6	8.6	7.7	8.7	7.4

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.8	7.5	8.0	7.6	7.5	7.4	7.0	6.9	7.6	7.4	7.2	7.2
2	7.8	7.5	8.0	7.6	7.6	7.4	7.0	7.0	7.5	7.5	7.2	7.2
3	7.6	7.4	8.0	7.6	7.7	7.3	7.0	7.0	7.5	7.5	7.3	7.2
4	7.5	7.4	8.0	7.6	7.5	7.4	7.1	7.0	7.6	7.5	7.3	7.2
5	7.6	7.4	8.0	7.6	7.7	7.4	7.1	7.1	7.6	7.5	7.2	7.2
6	7.6	7.4	8.0	7.7	7.7	7.5	7.2	7.1	7.5	7.5	7.2	7.0
7	7.7	7.2	8.0	7.6	7.7	7.5	7.2	7.2	7.6	7.5	7.2	7.2
8	7.7	7.4	8.0	7.7	7.6	7.1	7.3	7.2	7.6	7.6	7.2	7.2
9	7.7	7.4	8.0	7.7	7.2	7.1	7.3	7.3	7.7	7.6	7.2	7.2
10	7.6	7.4	8.1	7.6	7.3	7.2	7.3	7.2	7.7	7.7	7.3	7.2
11	7.7	7.4	8.1	7.7	7.4	7.3	7.3	7.3	7.7	7.7	7.3	7.2
12	7.7	7.4	8.1	7.7	7.4	7.3	7.4	7.3	7.7	7.7	7.4	7.3
13	7.6	7.4	8.1	7.7	7.5	7.4	7.5	7.4	7.8	7.7	7.4	7.3
14	7.6	7.4	8.1	7.7	7.5	7.3	7.4	7.2	7.7	7.7	7.3	7.3
15	7.6	7.4	8.1	7.7	7.5	7.4	7.3	7.2	7.7	7.7	7.3	7.3
16	7.6	7.4	8.0	7.7	7.5	7.4	7.4	7.3	7.7	7.6	7.4	7.3
17	7.6	7.4	8.1	7.7	7.4	7.3	7.4	7.4	7.6	7.6	7.4	7.4
18	7.6	7.4	8.0	7.7	7.5	7.3	7.4	7.4	7.6	7.3	7.4	7.3
19	7.7	7.4	7.9	7.7	7.3	7.2	7.4	7.4	7.3	7.3	7.4	7.4
20	7.7	7.4	8.0	7.6	7.3	7.2	7.5	7.4	7.4	7.3	7.4	7.4
21	7.7	7.4	8.1	7.7	7.3	7.3	7.5	7.5	7.4	7.4	7.4	7.4
22	7.8	7.4	8.1	7.8	7.4	7.3	7.5	7.4	7.4	7.4	7.4	7.4
23	7.9	7.4	8.1	7.8	7.4	7.3	7.4	7.3	7.4	7.4	7.4	7.4
24	8.0	7.6	8.1	7.7	7.3	6.8	7.4	7.3	7.5	7.4	7.5	7.4
25	8.0	7.6	8.1	7.8	6.9	6.7	7.4	7.4	7.5	7.5	7.4	7.2
26	8.0	7.6	8.1	7.7	6.8	6.7	7.5	7.4	7.6	7.5	7.2	7.2
27	8.0	7.6	7.9	7.6	6.9	6.8	7.6	7.5	7.6	7.4	7.3	7.2
28	8.0	7.6	7.9	7.6	6.9	6.9	7.5	7.5	7.5	7.4	7.3	7.3
29	8.0	7.6	7.9	7.6	6.9	6.9	7.6	7.5	7.5	7.5	7.3	7.3
30	8.0	7.6	7.9	7.5	7.1	6.9	7.6	7.6	7.5	7.3	7.4	7.3
31	---	---	7.6	7.5	---	---	7.6	7.6	7.3	7.2	---	---
MONTH	8.0	7.2	8.1	7.5	7.7	6.7	7.6	6.9	7.8	7.2	7.5	7.0

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.6	21.5	22.0	21.1	21.8	21.2	19.2	18.4	23.0	22.1	17.4	16.5
2	21.7	20.7	22.6	21.9	21.8	21.1	19.0	18.3	22.9	22.1	19.7	17.4
3	23.7	21.0	22.9	22.4	22.1	21.2	18.9	17.4	22.4	21.7	21.0	19.7
4	22.4	21.5	23.0	22.7	22.4	21.6	17.4	16.0	21.7	20.4	20.8	18.7
5	22.9	22.3	22.7	22.0	22.4	21.9	16.8	15.6	20.4	19.3	18.7	17.5
6	23.6	22.9	22.0	21.2	22.5	21.7	18.7	16.8	20.6	19.2	18.6	17.5
7	24.0	20.6	21.4	20.9	22.9	22.1	18.8	17.9	21.3	20.5	19.3	18.5
8	24.1	23.8	21.2	20.6	23.3	22.6	17.9	16.5	22.1	19.1	20.4	19.0
9	23.8	23.4	21.2	20.5	23.1	22.7	16.7	15.8	19.6	18.5	21.3	20.2
10	23.5	23.1	21.1	20.4	23.2	22.6	17.4	16.0	20.7	19.6	22.0	20.7
11	23.6	23.2	21.0	20.4	23.2	22.6	17.9	16.6	20.8	20.2	21.9	20.8
12	23.5	23.3	21.2	20.4	23.0	22.4	18.9	17.4	20.3	19.7	22.2	20.9
13	23.6	23.3	21.5	20.6	23.0	22.4	19.0	18.4	19.8	19.2	22.7	21.5
14	24.0	23.5	21.8	21.2	23.2	22.4	18.7	18.0	19.5	18.9	22.1	21.2
15	24.0	23.7	21.5	21.3	23.4	22.7	19.5	18.7	20.0	18.9	22.6	21.1
16	23.8	23.5	21.4	21.0	23.4	22.8	18.8	17.6	20.1	19.6	23.1	21.9
17	---	---	21.6	20.9	23.2	22.7	18.9	17.9	19.9	19.2	23.7	22.5
18	---	---	22.3	21.3	22.7	21.8	19.4	18.6	19.4	18.5	23.7	22.5
19	---	---	22.4	21.8	21.8	20.5	19.7	18.9	19.7	18.3	23.7	22.5
20	23.3	22.5	22.2	21.7	20.6	20.0	21.3	19.6	20.5	19.0	23.8	22.7
21	23.4	23.2	21.9	21.4	20.0	19.0	21.8	21.0	21.8	20.2	23.5	22.8
22	23.8	22.9	21.7	21.0	19.6	18.5	22.2	21.3	21.8	21.4	23.3	22.4
23	23.9	23.6	22.2	21.3	20.3	19.0	22.6	21.7	21.4	19.6	22.5	21.3
24	24.2	23.7	22.5	21.8	21.2	20.1	22.3	21.7	19.6	17.7	22.3	20.9
25	24.6	24.1	22.8	22.1	20.7	19.0	22.3	21.4	18.0	17.3	23.0	21.7
26	24.3	22.8	22.6	22.0	19.0	18.0	22.7	21.7	19.0	17.9	23.4	22.1
27	22.8	20.8	22.3	21.7	18.0	17.4	22.5	22.0	19.2	18.2	23.7	22.5
28	---	---	22.2	21.4	18.7	17.3	22.7	21.9	18.2	16.7	23.2	22.0
29	---	---	22.0	21.5	20.1	18.7	23.0	22.3	---	---	23.1	21.6
30	---	---	21.9	21.3	20.3	19.8	22.8	22.1	---	---	23.5	22.1
31	---	---	---	---	19.9	19.2	23.1	22.1	---	---	24.0	22.8
MONTH	---	---	23.0	20.4	23.4	17.3	23.1	15.6	23.0	16.7	24.0	16.5

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	23.9	23.0	25.0	23.6	24.8	23.1	24.9	24.2	26.7	25.5	26.3	25.7
2	23.5	22.7	25.1	23.7	25.2	23.8	25.0	24.5	26.5	25.7	26.4	26.1
3	23.2	22.3	25.3	23.8	25.5	24.2	25.1	24.6	25.9	25.3	26.5	26.0
4	22.5	21.7	25.5	24.1	25.3	24.5	25.5	25.0	25.7	25.0	26.6	26.0
5	23.2	22.0	25.3	24.2	25.4	24.4	25.3	24.8	25.9	25.2	26.5	25.9
6	22.7	21.8	25.5	24.3	25.8	24.7	25.2	24.5	26.3	25.6	26.0	25.4
7	22.2	21.0	25.3	24.3	25.6	24.8	25.6	24.8	26.3	25.5	26.0	25.5
8	22.7	21.1	25.2	24.2	25.3	24.3	25.5	25.3	25.8	25.2	25.9	25.4
9	23.4	21.9	25.3	24.0	25.3	24.3	25.3	25.0	25.3	24.8	26.1	25.4
10	23.5	22.4	25.3	24.1	25.7	24.5	25.5	24.9	25.4	24.8	26.1	25.5
11	23.8	22.6	25.2	24.1	25.5	24.6	25.4	25.1	25.3	24.8	26.1	25.2
12	23.5	22.7	25.4	24.1	25.6	24.6	25.3	25.0	25.2	24.8	25.2	24.6
13	23.3	22.4	25.2	24.1	25.8	24.8	25.1	24.8	25.2	24.6	24.9	24.2
14	23.4	22.6	25.3	24.1	25.8	25.1	25.8	25.0	25.1	24.4	25.4	24.9
15	23.6	22.3	24.9	23.7	26.0	25.1	26.6	25.7	25.3	24.7	25.8	25.1
16	24.0	22.6	24.2	23.1	26.1	25.1	26.6	26.1	25.6	25.0	26.0	25.4
17	24.1	23.0	24.9	23.6	25.9	25.1	26.9	26.4	26.1	25.5	26.1	25.6
18	24.2	23.0	25.3	24.4	25.1	24.1	27.0	26.6	25.7	24.9	26.3	25.5
19	24.3	23.0	25.0	24.1	24.7	24.2	26.8	26.3	25.9	25.7	26.3	25.8
20	24.2	23.1	24.1	22.9	24.9	24.4	26.3	25.9	25.8	25.3	26.4	25.9
21	24.3	23.0	23.3	22.2	24.7	24.3	25.9	25.0	25.8	25.3	26.3	25.8
22	24.6	23.2	23.3	22.3	24.9	24.2	25.0	24.2	25.6	25.1	26.2	25.7
23	24.4	23.2	23.4	22.5	24.9	24.4	24.6	23.9	25.5	25.1	26.1	25.4
24	24.5	23.1	23.7	22.6	24.8	24.3	25.3	24.6	25.7	25.2	25.6	25.2
25	24.5	23.3	23.5	22.8	24.8	24.3	25.9	25.1	25.6	25.2	25.7	25.0
26	24.5	23.5	23.7	22.8	25.6	24.8	25.6	25.2	25.6	25.2	26.1	25.7
27	24.7	23.6	23.8	23.4	26.2	25.4	25.9	25.1	25.5	24.9	26.2	26.0
28	24.8	23.5	24.7	23.5	26.7	25.7	26.0	25.3	25.4	25.0	26.2	25.6
29	24.7	23.5	24.6	23.8	26.4	25.7	26.2	25.5	25.3	25.0	26.2	25.6
30	24.8	23.5	24.8	23.6	26.0	24.9	25.8	25.2	25.3	24.6	26.2	25.7
31	---	---	24.4	23.2	---	---	26.1	25.2	25.7	25.0	---	---
MONTH	24.8	21.0	25.5	22.2	26.7	23.1	27.0	23.9	26.7	24.4	26.6	24.2

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.0	3.8	6.4	6.1	8.2	7.8	8.5	7.3	7.9	6.4	8.5	8.0
2	4.2	4.0	6.3	6.0	8.3	7.8	7.9	7.3	7.8	6.5	8.3	7.7
3	4.2	4.1	6.2	6.0	8.5	7.8	7.3	6.9	8.2	6.5	8.0	7.2
4	4.2	4.1	6.1	5.9	8.4	7.6	8.5	7.1	8.5	6.8	7.8	7.1
5	4.3	4.0	6.2	5.9	8.2	7.3	9.2	8.1	9.0	7.3	8.7	7.5
6	4.1	3.9	6.5	6.1	8.1	7.3	8.6	7.6	9.0	7.5	8.6	7.8
7	3.9	3.8	6.8	6.4	7.9	7.3	8.3	7.3	7.6	6.8	8.4	7.6
8	3.8	3.8	7.0	6.7	7.7	7.1	8.7	7.6	8.1	6.5	8.5	7.6
9	5.4	3.8	7.0	6.8	7.7	6.9	8.9	8.1	8.6	7.3	8.4	7.4
10	4.2	4.1	7.2	6.9	7.6	6.8	8.8	8.1	7.8	7.1	8.5	7.2
11	4.3	3.2	7.2	6.9	7.4	6.7	9.0	7.9	8.4	7.0	8.6	7.2
12	4.3	4.2	7.8	6.9	7.5	6.8	9.0	7.8	8.6	7.0	7.9	6.1
13	4.3	4.2	7.6	6.9	7.5	6.8	8.7	7.6	8.8	7.2	7.1	5.9
14	4.3	4.2	7.1	6.7	7.2	6.5	8.1	7.4	8.9	7.3	7.2	6.0
15	4.3	4.2	7.2	6.8	7.2	6.3	7.6	7.1	9.0	7.3	7.1	6.0
16	4.3	4.2	7.3	6.9	7.2	6.3	8.1	7.2	8.4	7.3	6.9	5.9
17	---	---	7.5	7.1	7.2	6.3	8.3	7.5	8.8	7.1	6.9	5.7
18	---	---	7.6	7.2	7.1	6.4	7.8	7.1	9.1	7.4	7.0	5.8
19	---	---	7.6	7.1	7.7	6.5	7.7	7.0	9.3	7.6	7.0	5.8
20	4.9	4.8	7.7	7.2	7.8	7.0	7.6	6.6	9.5	7.6	7.0	5.7
21	4.9	4.7	7.8	7.2	8.1	7.1	7.8	6.5	9.1	7.3	6.7	5.8
22	4.8	4.6	8.0	7.4	8.2	7.5	7.6	6.5	7.5	6.6	7.2	5.7
23	4.7	4.5	8.0	7.4	8.3	7.4	7.8	6.4	7.1	6.3	7.7	6.1
24	4.7	4.5	7.9	7.4	7.9	7.2	7.6	6.5	7.8	6.8	7.7	6.4
25	4.6	4.4	8.1	7.4	7.7	7.0	7.7	6.6	7.8	7.6	7.6	6.4
26	4.7	4.4	8.0	7.4	8.2	7.4	7.8	6.6	7.8	7.6	7.8	6.2
27	5.2	4.7	8.1	7.5	8.7	7.6	7.8	6.4	7.7	7.5	7.8	6.3
28	---	---	8.2	7.6	8.6	7.7	7.9	6.5	8.3	7.6	8.1	6.5
29	---	---	8.0	7.6	8.2	7.4	7.7	6.4	---	---	8.6	6.7
30	---	---	8.1	7.6	8.3	7.1	7.7	6.4	---	---	8.5	6.5
31	---	---	---	---	7.9	7.3	7.8	6.4	---	---	8.5	6.3
MONTH	---	---	8.2	5.9	8.7	6.3	9.2	6.4	9.5	6.3	8.7	5.7

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.3	6.3	9.7	6.3	6.6	5.6	5.9	5.4	5.4	5.1	5.4	5.3
2	8.3	6.3	9.9	6.4	6.6	5.3	5.7	5.5	5.3	5.1	5.3	5.1
3	7.0	6.0	9.8	6.3	7.4	5.5	5.8	5.6	5.4	5.2	5.1	4.8
4	7.5	5.9	9.8	6.3	7.3	5.6	5.8	5.5	5.5	5.2	5.0	4.7
5	7.8	6.0	9.9	6.3	7.7	5.5	5.8	5.6	5.6	5.5	4.8	4.6
6	8.3	6.2	9.9	6.4	7.9	5.8	5.9	5.8	5.6	5.3	5.2	4.8
7	8.6	6.5	9.7	6.3	7.5	5.8	5.9	5.7	5.6	5.2	5.0	4.8
8	8.8	6.7	9.6	6.4	6.3	3.8	5.8	5.5	5.7	5.3	5.1	4.9
9	8.8	6.6	10.1	6.4	5.8	5.5	6.0	5.8	5.8	5.7	5.2	5.1
10	8.5	6.4	10.1	6.3	5.8	5.5	6.2	6.0	5.8	5.7	5.4	5.2
11	8.8	6.3	10.0	6.4	5.8	5.3	6.1	5.9	5.9	5.6	5.7	5.3
12	8.3	6.3	10.2	6.4	6.1	5.4	6.1	5.7	5.9	5.8	6.4	5.7
13	8.2	6.0	9.9	6.4	6.2	5.5	6.1	5.9	6.0	5.8	6.5	6.0
14	7.8	6.1	9.8	6.4	5.9	5.1	6.2	5.6	6.0	5.8	6.5	6.3
15	8.2	6.0	10.0	6.3	6.1	5.3	5.7	5.4	6.0	5.8	6.5	6.4
16	7.9	6.1	10.8	6.7	6.3	5.5	5.5	4.9	5.8	5.7	6.6	6.4
17	8.0	6.0	9.9	6.6	5.8	5.2	5.1	5.0	6.1	5.5	6.9	6.5
18	8.2	6.0	9.6	6.5	---	---	5.1	5.0	6.1	5.3	7.0	6.5
19	8.3	5.9	8.1	6.1	---	---	5.2	5.0	5.3	5.0	6.6	6.4
20	8.5	6.1	9.2	6.0	---	---	5.3	5.2	5.1	4.9	6.6	6.5
21	8.6	6.1	9.3	7.0	---	---	5.6	5.3	5.2	5.0	6.8	6.5
22	8.9	6.2	9.6	6.7	---	---	5.9	5.4	5.2	5.0	6.9	6.7
23	8.8	6.2	9.4	6.7	---	---	5.8	5.2	5.2	5.0	7.2	6.8
24	9.3	6.3	9.5	6.7	---	---	5.3	5.1	5.2	5.1	7.8	7.1
25	9.1	6.3	9.4	6.6	---	---	5.2	5.0	5.2	5.1	7.8	7.4
26	9.1	6.2	9.3	6.7	5.7	5.5	---	---	5.8	5.2	7.6	7.4
27	9.0	6.2	8.4	6.6	5.7	5.6	---	---	5.8	5.4	7.6	7.4
28	9.4	6.2	9.1	5.9	5.6	5.3	---	---	5.8	5.7	7.6	7.4
29	9.6	6.3	8.8	6.3	5.4	5.2	---	---	5.9	5.6	7.6	7.5
30	9.7	6.3	8.6	5.9	5.9	5.4	5.1	4.9	5.9	5.4	7.7	7.5
31	---	---	6.9	5.2	---	---	5.4	5.0	5.5	5.4	---	---
MONTH	9.7	5.9	10.8	5.2	---	---	---	---	6.1	4.9	7.8	4.6

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV 27...	0935	.92	73	<5	6.9	7.0	400	21.9	64.0	4.70	1.70	9.5	14.0
JAN 22...	0930	.94	76	10	7.4	7.0	393	21.6	62.0	4.70	1.70	9.5	15.0
MAR 19...	1045	.88	66	<5	6.7	8.3	403	22.9	64.0	4.70	2.00	11.0	16.0
MAY 14...	0957	.59	44	<5	6.7	8.7	365	24.4	64.0	4.30	.60	6.2	11.0
JUL 09...	0951	1.78	202	240	5.6	7.2	316	25.3	42.0	4.50	3.30	12.0	18.0
SEP 09...	1030	3.60	500	400	4.8	6.2	184	25.5	29.0	2.70	2.30	6.1	9.60

Date	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 (MG/L AS N) (00630)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	TOTAL COLI-FORM, M ENDO MF, WTR (COL/100 ML) (31501)
NOV 27...	.2	10.0	15.0	226	<.20	.04	1.50	<.01	.060	E.07	3.9	4.0	380
JAN 22...	.2	8.70	17.0	234	.30	.01	1.40	<.01	.080	.07	3.4	3.6	370
MAR 19...	.2	10.0	17.0	234	<.20	.03	1.70	<.01	.090	.08	2.7	2.8	320
MAY 14...	.1	9.90	12.0	213	<.20	<.01	1.90	<.01	.040	.05	1.6	1.5	570
JUL 09...	.3	10.0	16.0	232	.70	.02	.760	.01	.460	.25	22.0	30.0	--
SEP 09...	.2	7.40	4.70	169	1.5	.02	.310	.02	.340	.27	30.0	34.0	9200

Date	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/100 ML) (31673)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV 27...	40	42	2.60	.70	<.050	.80	<.20	19	<.05	<.10	.40	330	1.1
JAN 22...	68	26	1.60	.90	<.050	2.30	.30	38	.06	<.10	1.30	340	1.7
MAR 19...	E31	26	1.50	1.10	<.050	6.50	.40	13	<.05	<.10	1.50	370	1.9
MAY 14...	26	62	.50	.80	<.050	2.10	<.20	4	<.05	<.10	.90	290	3.0
JUL 09...	--	--	78.0	1.50	<.050	1.40	<.20	355	<.05	<.10	1.20	200	4.8
SEP 09...	18	480	130	1.10	<.050	1.30	.50	577	.19	<.10	1.20	110	6.9

HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	N-15 / N-14 STABLE ISOTOPE RATIO PER MIL (82084)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
NOV 27...	--	--
JAN 22...	--	--
MAR 19...	--	--
MAY 14...	7.10	1.05
JUL 09...	--	--
SEP 09...	--	--

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

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303100 NEW RIVER NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°09'55", long 82°15'55" (1927 North American datum), in NW¹/₄ sec.1, T.27 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, near left bank, 100 ft upstream from bridge on Morris Bridge Road, 1.8 mi upstream from mouth, and 7 mi southwest of Zephyrhills.

DRAINAGE AREA.--15 mi².

PERIOD OF RECORD.--February 1964 to September 1974; October 1974 to June 1981 (annual maximum); June to September 2002 (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 50 ft above National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.50 ft, June 27, 1974; minimum, 1.70 ft, estimated, June 29, 30, July 1, 2, 3, 1967.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 7.77 ft, Aug. 20; minimum, 2.24 ft, June 26.

GAGE HEIGHT, FEET, PERIOD JUNE TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	5.84	5.19	6.57
2	---	---	---	---	---	---	---	---	---	5.74	4.98	7.04
3	---	---	---	---	---	---	---	---	---	5.49	4.87	6.74
4	---	---	---	---	---	---	---	---	---	5.29	4.83	6.15
5	---	---	---	---	---	---	---	---	---	5.17	4.71	5.73
6	---	---	---	---	---	---	---	---	---	5.03	4.57	5.44
7	---	---	---	---	---	---	---	---	---	4.87	4.56	5.26
8	---	---	---	---	---	---	---	---	---	4.74	4.70	5.11
9	---	---	---	---	---	---	---	---	---	4.66	4.58	4.96
10	---	---	---	---	---	---	---	---	---	4.58	4.47	4.81
11	---	---	---	---	---	---	---	---	---	4.48	4.38	4.70
12	---	---	---	---	---	---	---	---	---	4.40	4.31	4.71
13	---	---	---	---	---	---	---	---	---	4.48	4.31	4.93
14	---	---	---	---	---	---	---	---	---	4.66	4.40	5.34
15	---	---	---	---	---	---	---	---	---	5.23	5.13	6.00
16	---	---	---	---	---	---	---	---	---	6.08	5.86	6.47
17	---	---	---	---	---	---	---	---	---	6.36	6.67	6.46
18	---	---	---	---	---	---	---	---	---	6.09	7.36	6.10
19	---	---	---	---	---	---	---	---	---	5.73	7.45	5.76
20	---	---	---	---	---	---	---	---	---	5.39	7.73	5.47
21	---	---	---	---	---	---	---	---	---	5.17	7.56	5.20
22	---	---	---	---	---	---	---	---	---	5.13	7.33	4.98
23	---	---	---	---	---	---	---	---	---	5.50	6.70	4.84
24	---	---	---	---	---	---	---	---	---	6.62	6.09	4.73
25	---	---	---	---	---	---	---	---	---	7.33	5.64	4.67
26	---	---	---	---	---	---	---	---	---	7.36	5.34	4.71
27	---	---	---	---	---	---	---	---	5.29	6.96	5.21	4.76
28	---	---	---	---	---	---	---	---	5.65	6.49	5.09	4.78
29	---	---	---	---	---	---	---	---	5.79	6.11	5.26	4.75
30	---	---	---	---	---	---	---	---	5.78	5.82	5.82	4.69
31	---	---	---	---	---	---	---	---	---	5.48	6.27	---
MEAN	---	---	---	---	---	---	---	---	---	5.56	5.53	5.40
MAX	---	---	---	---	---	---	---	---	---	7.36	7.73	7.04
MIN	---	---	---	---	---	---	---	---	---	4.40	4.31	4.67

HILLSBOROUGH RIVER BASIN

02303205 BAKER CREEK AT MCINTOSH ROAD NEAR ANTIOCH, FL

LOCATION.--Lat 28°01'41", long 82°14'44" (1927 North American datum), in SE¼ 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 and tipping bucket raingage recorders. Datum of gage is 42.46 ft above National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Prior to March 1997, flow included effluent from upstream industry.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	3.0	0.19	0.05	6.0	9.0	0.05	0.16	3.8	65	11	16
2	23	3.2	0.22	0.11	5.0	8.5	0.04	0.14	3.1	80	11	12
3	20	3.3	0.24	e0.10	3.3	9.9	0.45	0.14	1.8	68	13	9.9
4	18	3.1	0.16	0.44	1.6	11	0.70	0.15	1.1	42	19	8.2
5	15	2.7	1.0	2.1	0.93	12	0.68	0.14	1.3	33	20	7.5
6	13	2.5	1.6	0.39	3.2	12	0.18	0.13	0.84	30	16	7.8
7	11	3.4	1.9	0.31	5.2	11	0.05	0.12	0.92	25	15	7.2
8	12	3.4	2.1	0.42	7.4	7.6	0.04	0.13	5.7	20	30	6.7
9	11	3.1	1.2	3.4	6.8	4.4	0.03	0.19	4.8	20	28	6.4
10	9.7	2.6	0.57	1.5	6.2	3.2	0.02	0.18	4.1	20	21	6.1
11	9.9	1.9	0.33	1.3	6.1	2.2	0.32	0.18	1.6	18	15	8.3
12	9.9	1.4	0.18	1.9	6.2	1.4	13	0.18	0.15	17	12	23
13	9.5	1.9	0.15	3.6	6.6	e0.50	6.0	0.17	4.3	24	14	30
14	8.1	2.2	0.14	3.7	6.3	e0.20	4.7	0.15	9.1	30	15	32
15	7.6	2.5	0.12	8.6	5.8	0.12	4.3	0.18	6.3	25	20	32
16	6.8	2.0	0.11	9.8	5.9	0.17	3.0	0.18	7.1	19	19	23
17	6.4	1.5	0.10	8.8	5.5	0.28	4.2	0.21	6.5	16	18	15
18	6.4	1.2	0.10	7.8	5.1	0.22	4.1	0.28	8.3	13	43	12
19	6.4	1.1	0.99	6.9	4.8	0.20	3.7	0.62	9.2	12	40	9.7
20	5.8	0.94	1.5	5.5	4.6	0.42	4.1	0.07	10	13	29	8.2
21	8.1	0.83	1.3	4.2	4.4	0.62	3.1	0.47	7.8	17	22	7.4
22	12	0.70	0.96	3.5	4.9	0.68	1.3	0.78	5.2	16	17	6.9
23	12	0.66	0.44	5.0	12	0.69	0.41	0.47	4.2	14	14	6.6
24	10	0.68	0.21	5.2	19	0.57	0.52	0.43	8.6	11	12	14
25	9.5	0.60	0.10	5.2	17	0.28	1.4	0.24	28	12	10	26
26	8.0	0.51	0.08	4.8	15	0.27	1.4	0.21	31	27	11	30
27	6.0	0.45	0.07	4.3	12	1.2	1.1	0.09	19	30	11	24
28	5.0	0.36	0.08	3.8	11	1.4	0.42	0.06	30	21	12	18
29	4.4	0.27	0.08	4.2	---	1.9	0.14	0.07	51	15	13	13
30	3.7	0.22	0.06	5.9	---	0.93	0.15	0.46	57	13	15	10
31	3.3	---	0.06	6.0	---	0.18	---	0.69	---	13	18	---
TOTAL	318.5	52.22	16.34	118.82	197.83	103.03	59.60	7.67	331.81	779	564	436.9
MEAN	10.3	1.74	0.53	3.83	7.07	3.32	1.99	0.25	11.1	25.1	18.2	14.6
MAX	27	3.4	2.1	9.8	19	12	13	0.78	57	80	43	32
MIN	3.3	0.22	0.06	0.05	0.93	0.12	0.02	0.06	0.15	11	10	6.1
CFSM	0.37	0.06	0.02	0.14	0.26	0.12	0.07	0.01	0.40	0.92	0.66	0.53
IN.	0.43	0.07	0.02	0.16	0.27	0.14	0.08	0.01	0.45	1.06	0.77	0.59
*PREC	1.08	1.30	0.70	1.78	3.36	0.60	0.0	0.0	10.68	5.27	6.22	5.60

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
MEAN	21.9	13.1	20.9	18.9	18.5	16.8	8.55	4.86	11.6	19.8	28.0	40.1
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	1.78	0.45	0.48	0.98	1.19	0.054	0.015	0.000	0.19	4.96	9.12	7.49
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2001	1997	1996	1996

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1993 - 2002

ANNUAL TOTAL	4440.01	2985.72		
ANNUAL MEAN	12.2	8.18		
HIGHEST ANNUAL MEAN			18.6	
LOWEST ANNUAL MEAN			46.4	1998
HIGHEST DAILY MEAN	329	Sep 15	6.55	2000
LOWEST DAILY MEAN	0.00	Many Days	523	Sep 28 1997
ANNUAL SEVEN-DAY MINIMUM	0.01	Jun 6	0.00	Many Days
MAXIMUM PEAK FLOW			0.07	Dec 26
MAXIMUM PEAK STAGE			95	Jul 2
ANNUAL RUNOFF (CFSM)	0.44		764	Dec 27 1997
ANNUAL RUNOFF (INCHES)	6.03		4.44	Jul 2
10 PERCENT EXCEEDS	40		0.30	10.63
50 PERCENT EXCEEDS	1.5		4.05	0.68
90 PERCENT EXCEEDS	0.04		20	9.22
			41	4.7
			0.15	9.7
				0.22

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303325 HILLSBOROUGH RIVER AT SARGEANT PARK NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°04'52", long 82°17'09" (1927 North American datum), in SW¹/₄ sec.2, T.28 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, on left side, in canoe launch area of Sargeant Park, 500 ft south of main stem of Hillsborough River and Flint Creek, 2.5 mi north of Thonotosassa, and 35 mi upstream from mouth.

DRAINAGE AREA.--370 mi².

PERIOD OF RECORD.--July to September 2002 (gage heights only).

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

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 29.02 ft, Sept. 28; minimum, 27.46 ft, Aug. 13.

GAGE HEIGHT, in FEET, PERIOD JULY TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	27.80	28.78
2	---	---	---	---	---	---	---	---	---	---	27.91	28.84
3	---	---	---	---	---	---	---	---	---	---	27.99	28.80
4	---	---	---	---	---	---	---	---	---	---	28.00	28.74
5	---	---	---	---	---	---	---	---	---	---	28.01	28.69
6	---	---	---	---	---	---	---	---	---	---	27.92	28.70
7	---	---	---	---	---	---	---	---	---	---	27.89	28.71
8	---	---	---	---	---	---	---	---	---	---	27.93	28.68
9	---	---	---	---	---	---	---	---	---	---	27.84	28.62
10	---	---	---	---	---	---	---	---	---	---	27.73	28.57
11	---	---	---	---	---	---	---	---	---	---	27.62	28.58
12	---	---	---	---	---	---	---	---	---	---	27.52	28.55
13	---	---	---	---	---	---	---	---	---	---	27.48	28.58
14	---	---	---	---	---	---	---	---	---	---	27.50	28.68
15	---	---	---	---	---	---	---	---	---	---	27.64	28.79
16	---	---	---	---	---	---	---	---	---	---	27.71	28.83
17	---	---	---	---	---	---	---	---	---	28.01	27.82	28.78
18	---	---	---	---	---	---	---	---	---	27.86	28.12	28.69
19	---	---	---	---	---	---	---	---	---	27.74	28.54	28.68
20	---	---	---	---	---	---	---	---	---	27.65	28.65	28.63
21	---	---	---	---	---	---	---	---	---	27.59	28.64	28.55
22	---	---	---	---	---	---	---	---	---	27.60	28.59	28.46
23	---	---	---	---	---	---	---	---	---	27.68	28.53	28.38
24	---	---	---	---	---	---	---	---	---	27.94	28.42	28.32
25	---	---	---	---	---	---	---	---	---	28.01	28.29	28.37
26	---	---	---	---	---	---	---	---	---	28.06	28.15	28.75
27	---	---	---	---	---	---	---	---	---	28.05	28.05	28.98
28	---	---	---	---	---	---	---	---	---	27.97	28.03	28.99
29	---	---	---	---	---	---	---	---	---	27.91	28.10	28.86
30	---	---	---	---	---	---	---	---	---	27.91	28.34	28.73
31	---	---	---	---	---	---	---	---	---	27.83	28.53	---
MEAN	---	---	---	---	---	---	---	---	---	27.85	28.04	28.68
MAX	---	---	---	---	---	---	---	---	---	28.06	28.65	28.99
MIN	---	---	---	---	---	---	---	---	---	27.59	27.48	28.32

HILLSBOROUGH RIVER BASIN

02303330 HILLSBOROUGH RIVER AT MORRIS BRIDGE NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°05'50", long 82°18'45" (1927 North American datum), in NW¹/₄ 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 and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Oct. 16, 1972, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated during flood stage by operation of Tampa Bypass Canal at Structure S-155 (station 02303354) 3.0 mi downstream since 1985. Maximum discharge of 975 ft³/s occurred Oct. 1, 2001 stage falling. Maximum independent peak discharge of 866 ft³/s occurred Sept. 28, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	901	115	75	58	65	104	53	46	46	434	235	600
2	767	114	76	60	64	102	53	45	49	426	233	718
3	660	113	76	66	64	98	54	45	48	451	254	736
4	571	112	75	67	63	97	60	44	45	493	277	711
5	492	111	73	67	61	93	60	44	42	532	307	684
6	429	108	72	67	59	89	59	44	40	524	283	671
7	381	106	70	67	62	87	59	43	38	476	274	667
8	342	104	70	66	68	85	57	43	38	423	276	665
9	303	102	71	65	68	83	56	42	48	379	258	646
10	269	100	79	64	68	81	55	42	55	343	236	618
11	244	98	74	64	69	79	54	41	56	308	210	626
12	225	95	72	64	69	77	55	41	53	298	186	619
13	210	94	70	64	68	77	67	41	49	325	168	607
14	203	93	69	67	68	76	69	40	45	340	162	627
15	205	92	69	78	67	75	72	40	47	335	191	691
16	195	90	68	80	66	74	70	40	48	351	197	740
17	185	89	67	80	66	73	66	40	50	330	218	750
18	175	88	65	80	65	72	64	38	60	284	276	704
19	165	87	63	80	64	70	61	40	63	241	391	675
20	155	86	62	79	63	69	59	40	66	211	545	658
21	155	85	61	77	62	67	57	44	70	192	604	624
22	162	84	60	75	63	66	55	51	72	187	606	577
23	155	82	60	73	73	64	54	54	73	185	582	535
24	151	81	60	72	81	62	53	56	76	203	546	501
25	156	80	59	71	84	60	51	53	81	256	498	494
26	152	79	60	71	89	60	50	44	99	293	446	583
27	146	78	59	70	96	60	49	38	173	306	407	755
28	137	77	59	69	102	58	48	37	315	292	371	857
29	129	75	59	68	---	57	47	36	402	276	365	817
30	123	75	59	67	---	55	46	35	448	277	425	716
31	119	---	58	66	---	54	---	40	---	258	484	---
TOTAL	8662	2793	2070	2162	1957	2324	1713	1327	2795	10229	10511	19872
MEAN	279	93.1	66.8	69.7	69.9	75.0	57.1	42.8	93.2	330	339	662
MAX	901	115	79	80	102	104	72	56	448	532	606	857
MIN	119	75	58	58	59	54	46	35	38	185	162	494
AC-FT	17180	5540	4110	4290	3880	4610	3400	2630	5540	20290	20850	39420
CFSM	0.75	0.25	0.18	0.19	0.19	0.20	0.15	0.11	0.25	0.88	0.90	1.77
IN.	0.86	0.28	0.21	0.21	0.19	0.23	0.17	0.13	0.28	1.01	1.04	1.97
*PREC	2.48	0.70	2.05	2.59	3.92	0.96	3.12	1.29	6.90	9.00	8.02	7.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY)

	2001	2001	2001	2001	2001	2001	2000	2001	2000	2000	1993	1999
MEAN	275	146	186	197	237	281	164	95.9	154	271	406	571
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	64.0	39.0	38.2	37.0	34.1	36.3	36.9	27.4	27.3	38.9	76.0	101
(WY)	2001	2001	2001	2001	2001	2001	2000	2001	2000	2000	1993	1999

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1973 - 2002

ANNUAL TOTAL	63081	66410		
ANNUAL MEAN	173	182	249	
HIGHEST ANNUAL MEAN			834	1998
LOWEST ANNUAL MEAN			65.1	2000
HIGHEST DAILY MEAN	3070	Sep 18	901	Oct 1
LOWEST DAILY MEAN	23	May 25	35	May 30
ANNUAL SEVEN-DAY MINIMUM	24	May 21	39	May 26
MAXIMUM PEAK FLOW			866	Sep 28
MAXIMUM PEAK STAGE			28.14	Sep 28
ANNUAL RUNOFF (AC-FT)	125100	131700	180200	
ANNUAL RUNOFF (CFSM)	0.46	0.49	0.66	
ANNUAL RUNOFF (INCHES)	6.26	6.59	9.01	
10 PERCENT EXCEEDS	385	539	561	
50 PERCENT EXCEEDS	55	77	117	
90 PERCENT EXCEEDS	29	47	57	

*PRECIPITATION, TOTAL, INCHES

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.16	25.36	24.66	24.36	24.54	25.32	24.08	23.76	23.83	27.06	26.22	27.43
2	27.88	25.34	24.68	24.42	24.52	25.30	24.06	23.73	23.94	27.03	26.20	27.77
3	27.63	25.33	24.67	24.59	24.50	25.24	24.10	23.71	23.91	27.11	26.31	27.82
4	27.40	25.32	24.65	24.62	24.47	25.23	24.28	23.70	23.79	27.25	26.43	27.76
5	27.18	25.30	24.62	24.61	24.42	25.16	24.29	23.68	23.68	27.36	26.57	27.68
6	26.98	25.26	24.59	24.61	24.38	25.10	24.26	23.66	23.60	27.34	26.46	27.64
7	26.81	25.23	24.56	24.61	24.44	25.05	24.24	23.64	23.54	27.19	26.41	27.64
8	26.67	25.20	24.54	24.59	24.61	25.02	24.20	23.62	23.53	27.02	26.42	27.63
9	26.51	25.17	24.56	24.57	24.61	24.97	24.15	23.60	23.90	26.86	26.34	27.58
10	26.36	25.13	24.75	24.54	24.61	24.92	24.11	23.58	24.13	26.72	26.22	27.50
11	26.24	25.09	24.64	24.53	24.65	24.87	24.07	23.56	24.16	26.57	26.07	27.52
12	26.14	25.06	24.59	24.52	24.64	24.81	24.11	23.54	24.07	26.52	25.92	27.50
13	26.06	25.03	24.56	24.53	24.61	24.81	24.46	23.53	23.92	26.64	25.80	27.46
14	26.02	25.02	24.53	24.61	24.60	24.78	24.51	23.52	23.80	26.70	25.75	27.52
15	26.03	25.00	24.52	24.86	24.58	24.75	24.59	23.51	23.87	26.68	25.93	27.70
16	25.97	24.97	24.50	24.89	24.57	24.72	24.52	23.49	23.90	26.75	25.93	27.83
17	25.92	24.95	24.48	24.90	24.55	24.69	24.43	23.47	23.94	26.66	26.03	27.86
18	25.85	24.93	24.50	24.90	24.52	24.66	24.37	23.40	24.28	26.46	26.30	27.74
19	25.79	24.91	24.49	24.90	24.49	24.61	24.29	23.48	24.35	26.25	26.76	27.66
20	25.72	24.89	24.48	24.88	24.46	24.56	24.21	23.50	24.42	26.08	27.29	27.61
21	25.72	24.86	24.45	24.84	24.44	24.52	24.14	23.63	24.54	25.96	27.46	27.51
22	25.77	24.84	24.43	24.81	24.46	24.48	24.08	23.87	24.61	25.93	27.46	27.37
23	25.72	24.81	24.42	24.78	24.73	24.42	24.03	23.97	24.62	25.92	27.38	27.23
24	25.69	24.79	24.41	24.75	24.93	24.37	24.00	24.03	24.71	26.03	27.27	27.12
25	25.73	24.76	24.40	24.72	24.98	24.33	23.95	23.98	24.82	26.32	27.10	27.09
26	25.70	24.73	24.42	24.70	25.08	24.30	23.90	23.67	25.13	26.50	26.91	27.38
27	25.66	24.71	24.40	24.68	25.21	24.30	23.87	23.47	25.83	26.56	26.75	27.87
28	25.60	24.69	24.39	24.65	25.29	24.25	23.84	23.47	26.60	26.50	26.60	28.12
29	25.53	24.66	24.39	24.63	---	24.20	23.81	23.43	26.95	26.42	26.57	28.05
30	25.47	24.65	24.38	24.60	---	24.15	23.78	23.41	27.11	26.43	26.83	27.85
31	25.41	---	24.37	24.57	---	24.11	---	23.60	---	26.34	27.05	---
MEAN	26.24	25.00	24.52	24.67	24.64	24.71	24.16	23.62	24.45	26.62	26.54	27.61
MAX	28.16	25.36	24.75	24.90	25.29	25.32	24.59	24.03	27.11	27.36	27.46	28.12
MIN	25.41	24.65	24.37	24.36	24.38	24.11	23.78	23.40	23.53	25.92	25.75	27.09

HILLSBOROUGH RIVER BASIN

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV 27...	0824	24.72	78	--	6.3	7.1	399	20.6	--	--	--	--	--
JAN 22...	0810	24.82	76	30	6.6	6.9	399	19.8	59.0	4.80	2.40	12.0	19.0
APR 01...	0952	24.08	53	5	7.0	8.0	387	23.3	64.0	4.60	1.10	7.7	13.0
MAY 14...	0814	23.52	40	--	6.1	7.0	363	24.1	--	--	--	--	--
JUL 09...	0808	26.88	384	240	2.6	6.5	248	25.1	33.0	3.50	3.60	10.0	17.0
SEP 09...	0848	27.59	648	280	2.4	6.2	204	25.7	31.0	3.00	2.90	7.1	12.0

Date	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	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)
NOV 27...	--	--	--	--	E.40	.03	.890	<.01	.120	E.13	--	--	--
JAN 22...	.2	6.70	25.0	235	.50	.02	.720	<.01	.100	.08	33	<1	<1.0
APR 01...	.2	9.10	14.0	225	.20	.03	1.10	<.01	.100	.11	29	<1	<1.0
MAY 14...	--	--	--	--	.30	.03	1.20	<.01	.060	.07	--	--	--
JUL 09...	.3	8.20	14.0	204	1.5	.04	.090	.01	.390	.39	79	1	<1.0
SEP 09...	.3	8.50	3.90	166	1.4	.02	.040	.01	.550	.56	80	2	<1.0

Date	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 27...	--	--	--	--	--	--	--	--
JAN 22...	<1	<1.0	220	<1	<.1	<1.0	320	<2
APR 01...	<1	<1.0	93	<1	<.1	1.2	380	2
MAY 14...	--	--	--	--	--	--	--	--
JUL 09...	<1	1.5	497	<1	<.1	1.3	150	4
SEP 09...	<1	<1.0	720	<1	<.1	1.5	140	3

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

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303332 HILLSBOROUGH RIVER AT NATURES CLASSROOM NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°05'13", long 82°19'58" (1927 North American datum), in NE $\frac{1}{4}$ sec.32, T.27 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, on left bank, at Hillsborough County School Boards Natures Classroom, 2.5 mi northwest of Thonotosassa, and 27 mi upstream from mouth.

DRAINAGE AREA.--393 mi².

PERIOD OF RECORD.--August to September 2002 (gage heights only), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 24.98 ft, Aug. 23; minimum, 23.34 ft, Aug. 14.

GAGE HEIGHT, FEET, PERIOD AUGUST TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	24.50
4	---	---	---	---	---	---	---	---	---	---	---	24.48
5	---	---	---	---	---	---	---	---	---	---	---	24.48
6	---	---	---	---	---	---	---	---	---	---	---	24.46
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	24.48
10	---	---	---	---	---	---	---	---	---	---	---	24.40
11	---	---	---	---	---	---	---	---	---	---	---	24.38
12	---	---	---	---	---	---	---	---	---	---	23.52	24.36
13	---	---	---	---	---	---	---	---	---	---	23.42	24.38
14	---	---	---	---	---	---	---	---	---	---	23.34	---
15	---	---	---	---	---	---	---	---	---	---	23.54	---
16	---	---	---	---	---	---	---	---	---	---	23.58	---
17	---	---	---	---	---	---	---	---	---	---	---	24.90
18	---	---	---	---	---	---	---	---	---	---	---	24.92
19	---	---	---	---	---	---	---	---	---	---	24.10	24.94
20	---	---	---	---	---	---	---	---	---	---	24.56	24.86
21	---	---	---	---	---	---	---	---	---	---	24.70	---
22	---	---	---	---	---	---	---	---	---	---	24.90	---
23	---	---	---	---	---	---	---	---	---	---	24.98	24.36
24	---	---	---	---	---	---	---	---	---	---	---	24.22
25	---	---	---	---	---	---	---	---	---	---	---	24.10
26	---	---	---	---	---	---	---	---	---	---	24.20	24.16
27	---	---	---	---	---	---	---	---	---	---	24.22	24.38
28	---	---	---	---	---	---	---	---	---	---	24.02	---
29	---	---	---	---	---	---	---	---	---	---	23.96	---
30	---	---	---	---	---	---	---	---	---	---	24.00	24.76
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	24.07	24.50
MAX	---	---	---	---	---	---	---	---	---	---	24.98	24.94
MIN	---	---	---	---	---	---	---	---	---	---	23.34	24.10

HILLSBOROUGH RIVER BASIN

02303350 TROUT CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°08'20", long 82°21'50" (1927 North American datum), 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	0.15	0.00	0.06	0.49	0.57	0.00	0.00	0.00	85	45	42
2	7.1	0.16	0.00	0.22	0.46	0.34	0.00	0.00	0.00	60	32	38
3	5.5	0.16	0.00	0.62	0.40	0.24	0.00	0.00	0.00	51	25	40
4	4.3	0.15	0.00	0.76	0.35	0.24	0.00	0.00	0.00	37	24	43
5	2.9	0.15	0.00	0.70	0.26	0.46	0.00	0.00	0.00	62	18	44
6	1.9	0.15	0.00	0.67	0.21	0.52	0.00	0.00	0.00	40	14	79
7	1.3	0.14	0.00	0.75	0.21	0.53	0.00	0.00	0.00	25	23	107
8	0.90	0.12	0.00	0.88	0.27	0.51	0.00	0.00	0.00	16	66	92
9	0.63	0.09	0.00	0.84	0.31	0.37	0.00	0.00	0.00	14	67	72
10	0.42	0.05	0.00	0.79	0.33	0.22	0.00	0.00	0.00	20	66	54
11	0.37	0.01	0.11	0.70	0.33	0.17	0.00	0.00	0.00	16	58	41
12	0.37	0.00	0.61	0.64	0.36	0.17	0.00	0.00	0.00	11	44	47
13	0.37	0.00	0.51	0.62	0.37	0.17	0.00	0.00	0.00	23	32	83
14	0.35	0.00	0.37	0.83	0.33	0.15	0.00	0.00	0.00	61	32	91
15	0.34	0.00	0.29	3.7	0.31	0.15	8.8	0.00	0.00	84	84	119
16	0.29	0.00	0.23	5.1	0.29	0.15	6.5	0.00	0.00	91	111	148
17	0.27	0.00	0.19	3.7	0.29	0.13	3.2	0.00	0.00	76	110	179
18	0.21	0.00	0.21	2.4	0.29	0.09	7.9	0.00	2.2	55	259	148
19	0.17	0.00	0.20	1.9	0.28	0.06	5.3	0.00	7.5	35	413	125
20	0.16	0.00	0.17	1.5	0.26	0.02	2.9	0.00	7.7	23	361	111
21	0.17	0.00	0.13	1.4	0.23	0.00	1.6	0.00	3.5	17	263	91
22	0.25	0.00	0.11	1.2	0.24	0.00	0.87	0.00	1.7	40	174	71
23	0.29	0.00	0.06	1.1	0.89	0.00	0.37	0.00	1.1	44	124	57
24	0.28	0.00	0.05	0.99	3.7	0.00	0.18	0.00	2.1	57	91	46
25	0.32	0.00	0.03	0.88	3.3	0.00	0.16	0.00	5.9	63	65	57
26	0.33	0.00	0.03	0.80	2.1	0.00	0.14	0.00	5.8	73	45	98
27	0.30	0.00	0.02	0.71	1.3	0.00	0.10	0.00	6.2	68	42	122
28	0.26	0.00	0.06	0.70	0.86	0.00	0.04	0.00	27	68	41	107
29	0.21	0.00	0.15	0.63	---	0.00	0.00	0.00	38	59	47	85
30	0.19	0.00	0.13	0.57	---	0.00	0.00	0.00	85	49	90	67
31	0.17	---	0.09	0.52	---	0.00	---	0.00	---	49	60	---
TOTAL	41.62	1.33	3.75	36.88	19.02	5.26	38.06	0.00	193.70	1472	2926	2504
MEAN	1.34	0.044	0.12	1.19	0.68	0.17	1.27	0.000	6.46	47.5	94.4	83.5
MAX	11	0.16	0.61	5.1	3.7	0.57	8.8	0.00	85	91	413	179
MIN	0.16	0.00	0.00	0.06	0.21	0.00	0.00	0.00	0.00	11	14	38
CFSM	0.06	0.00	0.01	0.05	0.03	0.01	0.06	0.00	0.28	2.06	4.10	3.63
IN.	0.07	0.00	0.01	0.06	0.03	0.01	0.06	0.00	0.31	2.38	4.73	4.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2002, BY WATER YEAR (WY)

MEAN	12.2	6.80	13.8	12.3	21.4	26.7	9.19	8.12	7.39	17.1	37.0	59.5
MAX	72.7	70.8	285	67.5	202	161	69.6	117	81.2	81.1	125	248
(WY)	1996	1989	1998	1998	1998	1987	1987	1979	1982	1986	1985	1979
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.34
(WY)	1981	1979	1979	1981	1985	1985	1985	1975	1977	1977	1993	1996

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1975 - 2002

ANNUAL TOTAL	4852.53	7241.62	
ANNUAL MEAN	13.3	19.8	19.3
HIGHEST ANNUAL MEAN			85.7
LOWEST ANNUAL MEAN			2.10
HIGHEST DAILY MEAN	588	Sep 16	413
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00
MAXIMUM PEAK FLOW			427
MAXIMUM PEAK STAGE			40.41
ANNUAL RUNOFF (CFSM)	0.58		0.86
ANNUAL RUNOFF (INCHES)	7.85		11.71
10 PERCENT EXCEEDS	25		68
50 PERCENT EXCEEDS	0.00		0.33
90 PERCENT EXCEEDS	0.00		0.00

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
JAN													
23...	1212	35.90	1.2	2.9	6.7	540	20.7	1.1	.04	.040	<.01	.050	.06
JUL													
15...	0758	38.21	81	4.1	6.2	170	26.0	1.4	.04	<.020	.01	.080	.09
29...	0827	37.86	61	3.7	6.4	138	26.0	1.6	.02	.040	.01	.120	.14
AUG													
14...	0854	36.99	24	3.9	6.4	158	--	1.4	.03	.070	.01	.130	.14
SEP													
11...	1231	37.52	41	--	6.4	130	25.6	1.5	.03	.070	.01	.120	.15
18...	1000	39.12	149	4.2	5.9	108	26.5	1.3	.03	.030	.01	.090	.12

Remark codes used in this report:

< -- Less than

HILLSBOROUGH RIVER BASIN

02303360 HILLSBOROUGH RIVER AT RIVERFRONT PARK NEAR TAMPA, FL

LOCATION.--Lat 28°04'11", long 82°22'38" (1927 North American datum), in SE $\frac{1}{4}$ sec.2, T.28 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, on right bank, at University of South Florida Riverfront Park, 200 ft upstream from Fletcher Avenue bridge, 1.5 mi upstream from Cow House Creek, and 10.5 mi northeast of Tampa.

DRAINAGE AREA.--430 mi².

PERIOD OF RECORD.--August to September 2002 (gage heights only), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

ETREMES FOR CURRENT PERIOD.--Maximum gage height, 23.64 ft, Sept 20; minimum, 22.48 ft, August 14.

GAGE HEIGHT, FEET, PERIOD AUGUST TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	22.80	---
2	---	---	---	---	---	---	---	---	---	---	22.78	---
3	---	---	---	---	---	---	---	---	---	---	22.78	---
4	---	---	---	---	---	---	---	---	---	---	22.78	23.19
5	---	---	---	---	---	---	---	---	---	---	---	23.15
6	---	---	---	---	---	---	---	---	---	---	---	23.05
7	---	---	---	---	---	---	---	---	---	---	22.78	23.16
8	---	---	---	---	---	---	---	---	---	---	22.68	23.25
9	---	---	---	---	---	---	---	---	---	---	22.68	23.22
10	---	---	---	---	---	---	---	---	---	---	22.78	23.18
11	---	---	---	---	---	---	---	---	---	---	22.70	23.20
12	---	---	---	---	---	---	---	---	---	---	22.60	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	22.48	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	22.72	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	22.82	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	23.18	23.64
21	---	---	---	---	---	---	---	---	---	---	23.40	23.48
22	---	---	---	---	---	---	---	---	---	---	---	23.38
23	---	---	---	---	---	---	---	---	---	---	23.52	23.20
24	---	---	---	---	---	---	---	---	---	---	---	23.08
25	---	---	---	---	---	---	---	---	---	---	23.24	---
26	---	---	---	---	---	---	---	---	---	---	23.14	---
27	---	---	---	---	---	---	---	---	---	---	---	23.15
28	---	---	---	---	---	---	---	---	---	---	22.85	23.39
29	---	---	---	---	---	---	---	---	---	---	22.71	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	22.95	---
MEAN	---	---	---	---	---	---	---	---	---	---	22.87	23.25
MAX	---	---	---	---	---	---	---	---	---	---	23.52	23.64
MIN	---	---	---	---	---	---	---	---	---	---	22.48	23.05

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" (1927 North American datum), in SW¼ 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 higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Peak obtained from observed record during discharge measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29	20
2	11	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	22
3	11	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	23
4	11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	24
5	11	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	26
6	11	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26	31
7	11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	31
8	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26	34
9	9.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	32
10	8.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	27
11	8.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22	24
12	7.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	24
13	7.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22	25
14	8.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	32
15	9.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40	42
16	9.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45	51
17	9.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42	49
18	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40	42
19	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39	35
20	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39	29
21	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38	24
22	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36	21
23	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e19	34	18
24	9.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e82	32	17
25	7.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e124	30	17
26	6.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112	26	17
27	5.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85	25	15
28	3.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59	23	15
29	2.7	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	45	22	14
30	1.8	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	36	22	14
31	1.3	---	0.00	0.00	---	0.00	---	0.00	---	31	20	---
TOTAL	272.7	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	593.00	909	795
MEAN	8.80	0.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19.1	29.3	26.5
MAX	12	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	124	45	51
MIN	1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20	14
AC-FT	541	4.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1180	1800	1580
CFSM	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.52	0.47
IN.	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.60	0.53

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	19.0	7.42	11.3	15.2	22.8	23.5	11.1	3.86	8.24	16.8	30.4	40.4
MAX	105	43.7	191	91.2	216	154	99.0	44.6	87.7	132	229	178
(WY)	1983	1989	1998	1998	1998	1998	1987	1979	1982	1974	1965	1964
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1991	1979	1979	1981	1985	1981	1981	1968	1977	1973	1990	1992

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1964 - 2002

ANNUAL TOTAL	748.94	2571.70	
ANNUAL MEAN	2.05	7.05	17.6
HIGHEST ANNUAL MEAN			62.8
LOWEST ANNUAL MEAN			0.11
HIGHEST DAILY MEAN	51	Sep 18	e124
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00
MAXIMUM PEAK FLOW			132
MAXIMUM PEAK STAGE			73.35
ANNUAL RUNOFF (AC-FT)	1490	5100	12720
ANNUAL RUNOFF (CFSM)	0.037	0.13	0.31
ANNUAL RUNOFF (INCHES)	0.50	1.71	4.26
10 PERCENT EXCEEDS	8.2	27	48
50 PERCENT EXCEEDS	0.00	0.00	3.2
90 PERCENT EXCEEDS	0.00	0.00	0.00

HILLSBOROUGH RIVER BASIN

02303400 CYPRESS CREEK NEAR SAN ANTONIO, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.20	70.01	---	---	---	---	---	---	---	---	71.94	71.69
2	71.20	69.90	---	---	---	---	---	---	---	---	71.88	71.82
3	71.21	69.77	---	---	---	---	---	---	---	---	71.85	71.84
4	71.20	69.65	---	---	---	---	---	---	---	---	71.88	71.89
5	71.20	69.59	---	---	---	---	---	---	---	---	71.89	72.00
6	71.20	69.53	---	---	---	---	---	---	---	---	71.83	72.19
7	71.17	69.49	---	---	---	---	---	---	---	---	71.84	72.21
8	71.14	---	---	---	---	---	---	---	---	---	71.82	72.30
9	71.07	---	---	---	---	---	---	---	---	---	71.70	72.25
10	71.02	---	---	---	---	---	---	---	---	---	71.65	72.08
11	70.97	---	---	---	---	---	---	---	---	---	71.59	71.93
12	70.94	---	---	---	---	---	---	---	---	---	71.57	71.92
13	70.93	---	---	---	---	---	---	---	---	---	71.63	71.98
14	70.97	---	---	---	---	---	---	---	---	---	71.74	72.25
15	71.09	---	---	---	---	---	---	---	---	---	72.32	72.55
16	71.10	---	---	---	---	---	---	---	---	---	72.49	72.74
17	71.09	---	---	---	---	---	---	---	---	---	72.43	72.70
18	71.11	---	---	---	---	---	---	---	---	---	72.39	72.56
19	71.16	---	---	---	---	---	---	---	---	---	72.37	72.37
20	71.27	---	---	---	---	---	---	---	---	---	72.37	72.16
21	71.26	---	---	---	---	---	---	---	---	---	72.35	71.97
22	71.24	---	---	---	---	---	---	---	---	---	72.31	71.83
23	71.16	---	---	---	---	---	---	---	---	---	72.24	71.73
24	71.06	---	---	---	---	---	---	---	---	---	72.17	71.66
25	70.92	---	---	---	---	---	---	---	---	---	72.10	71.63
26	70.79	---	---	---	---	---	---	---	---	73.20	71.98	71.65
27	70.65	---	---	---	---	---	---	---	---	72.95	71.92	71.57
28	70.51	---	---	---	---	---	---	---	---	72.65	71.83	71.52
29	70.35	---	---	---	---	---	---	---	---	72.39	71.77	71.49
30	70.20	---	---	---	---	---	---	---	---	72.15	71.78	71.46
31	70.10	---	---	---	---	---	---	---	---	72.02	71.66	---
MEAN	70.98	---	---	---	---	---	---	---	---	---	71.98	72.00
MAX	71.27	---	---	---	---	---	---	---	---	---	72.49	72.74
MIN	70.10	---	---	---	---	---	---	---	---	---	71.57	71.46

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" (1927 North American datum), 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 (gage heights and periodic discharge measurements only); June 1974 to current year.

REVISED RECORDS.--WRD FL 1974: 1964-65 (M), 1967 (M), 1970 (M).

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1972, nonrecording gage 1,000 ft upstream at datum 40.00 ft lower; Oct. 1, 1972, to Aug. 25, 1977, at site 30 ft upstream at present datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	0.61	0.07	0.10	1.4	3.1	0.26	0.26	0.00	82	e59	74
2	18	0.57	0.06	0.19	1.3	2.4	0.23	0.21	0.00	99	e70	71
3	15	0.55	0.06	0.34	1.2	2.1	0.26	0.17	0.00	101	e63	68
4	11	0.50	0.06	0.32	1.0	2.4	0.38	0.13	0.00	93	e58	69
5	8.9	0.48	0.06	0.30	0.93	2.4	0.37	0.08	0.00	86	e52	84
6	7.5	0.45	0.06	0.29	0.86	2.3	0.32	0.05	0.00	82	e49	127
7	6.5	0.41	0.06	0.31	0.87	2.2	0.08	0.03	0.00	73	e57	148
8	5.3	0.38	0.07	0.29	1.0	2.0	0.22	0.02	0.00	61	e61	148
9	4.6	0.34	0.08	0.27	1.0	1.8	0.19	0.01	0.00	50	e56	136
10	3.8	0.30	0.11	0.25	0.94	1.6	0.15	0.00	0.00	41	e51	118
11	3.1	0.27	0.10	0.25	0.99	1.5	0.12	0.00	0.00	33	e43	101
12	2.5	0.22	0.10	0.23	0.98	1.3	0.25	0.00	0.00	35	e47	88
13	2.1	0.19	0.09	0.27	0.94	1.3	2.1	0.00	0.00	56	e53	85
14	1.8	0.19	0.09	0.48	0.91	1.2	10	0.00	0.00	86	e72	87
15	2.3	0.17	0.09	1.5	0.85	1.1	15	0.00	0.00	91	e110	109
16	2.2	0.15	0.09	4.1	0.81	0.93	15	0.00	0.00	89	e154	188
17	1.9	0.15	0.09	5.0	0.78	0.82	15	0.00	0.02	e83	e173	236
18	1.5	0.13	0.10	4.0	0.71	0.72	16	0.00	0.19	e74	e196	246
19	1.2	0.12	0.10	2.9	0.66	0.63	13	0.00	0.48	e67	e207	232
20	1.0	0.12	0.10	2.1	0.64	0.56	9.2	0.00	4.1	e63	e207	204
21	0.91	0.11	0.10	1.7	0.58	0.50	5.7	0.00	5.4	e61	e202	177
22	0.90	0.10	0.10	1.4	0.63	0.46	3.5	0.00	3.9	e59	198	152
23	0.85	0.10	0.10	1.3	1.6	0.42	2.3	0.00	2.4	e57	182	131
24	0.83	0.09	0.12	1.3	5.4	0.38	1.6	0.00	2.5	e60	158	115
25	1.1	0.09	0.12	1.3	9.0	0.36	1.1	0.00	21	e66	131	106
26	1.1	0.08	0.12	1.4	8.3	0.42	0.83	0.00	42	e85	106	105
27	0.95	0.08	0.12	1.4	6.0	0.42	0.70	0.00	42	e81	88	101
28	0.88	0.08	0.12	1.3	4.2	0.39	0.58	0.00	43	e69	77	96
29	0.79	0.08	0.12	1.3	---	0.35	0.45	0.00	45	e57	67	92
30	0.72	0.08	0.11	1.4	---	0.31	0.34	0.00	61	e49	66	88
31	0.66	---	0.10	1.4	---	0.30	---	0.00	---	e50	72	---
TOTAL	132.89	7.19	2.87	38.69	54.48	36.67	115.23	0.96	272.99	2139	3185	3782
MEAN	4.29	0.24	0.093	1.25	1.95	1.18	3.84	0.031	9.10	69.0	103	126
MAX	23	0.61	0.12	5.0	9.0	3.1	16	0.26	61	101	207	246
MIN	0.66	0.08	0.06	0.10	0.58	0.30	0.08	0.00	0.00	33	43	68
CFSM	0.04	0.00	0.00	0.01	0.02	0.01	0.03	0.00	0.08	0.59	0.88	1.08

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2002, 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	1999	2000	2001	2002	
MEAN	46.1	13.6	25.6	40.1	57.6	64.8	34.4	15.4	15.9	30.8	60.1	94.9																	
MAX	254	98.3	404	384	662	613	416	217	240	139	249	372																	
(WY)	1983	1989	1998	1998	1998	1998	1987	1979	1982	1982	1978	1988																	
MIN	0.000	0.000	0.000	0.062	0.063	0.061	0.000	0.000	0.000	0.000	0.000	0.035																	
(WY)	1994	1994	1994	2001	2001	2001	1975	1975	2000	1988	1993	1993																	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1975 - 2002

ANNUAL TOTAL	3879.20	9767.97		
ANNUAL MEAN	10.6	26.8	41.5	
HIGHEST ANNUAL MEAN			204	1998
LOWEST ANNUAL MEAN			2.58	1992
HIGHEST DAILY MEAN	239	Sep 18	246	Sep 18
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 15	0.00	May 10
MAXIMUM PEAK FLOW			247	Sep 18
MAXIMUM PEAK STAGE			7.73	Sep 18
ANNUAL RUNOFF (CFSM)	0.091	0.23	0.35	
10 PERCENT EXCEEDS	34	91	110	
50 PERCENT EXCEEDS	0.10	0.99	5.1	
90 PERCENT EXCEEDS	0.00	0.00	0.00	

HILLSBOROUGH RIVER BASIN

02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.18	2.50	2.13	2.15	2.70	3.01	2.27	2.28	1.89	5.88	---	5.73
2	3.99	2.48	2.13	2.22	2.67	2.91	2.26	2.24	1.88	6.17	---	5.67
3	3.82	2.47	2.12	2.33	2.66	2.85	2.27	2.22	1.86	6.20	---	5.61
4	3.64	2.45	2.12	2.31	2.62	2.90	2.34	2.18	1.85	6.07	---	5.65
5	3.49	2.44	2.11	2.29	2.58	2.91	2.34	2.14	1.85	5.96	---	5.91
6	3.39	2.42	2.11	2.30	2.56	2.89	2.31	2.11	1.83	5.88	---	6.57
7	3.31	2.41	2.11	2.31	2.56	2.87	2.28	2.08	1.82	5.71	---	6.81
8	3.21	2.39	2.12	2.29	2.62	2.84	2.25	2.05	1.81	5.48	---	6.81
9	3.14	2.37	2.13	2.28	2.61	2.80	2.23	2.03	1.80	5.23	---	6.68
10	3.06	2.35	2.16	2.27	2.59	2.77	2.20	2.01	1.78	5.01	---	6.46
11	2.99	2.32	2.16	2.27	2.61	2.73	2.17	1.99	1.76	4.80	---	6.20
12	2.91	2.30	2.16	2.26	2.60	2.69	2.25	1.98	1.74	4.83	---	5.99
13	2.85	2.27	2.15	2.28	2.59	2.68	2.81	1.97	1.72	5.35	---	5.93
14	2.80	2.27	2.15	2.39	2.57	2.66	3.71	1.96	1.72	5.96	---	5.97
15	2.87	2.26	2.15	2.72	2.55	2.62	4.07	1.95	1.87	6.04	---	6.31
16	2.86	2.25	2.15	3.14	2.54	2.58	4.08	1.93	1.92	6.01	---	7.21
17	2.81	2.23	2.15	3.26	2.52	2.54	4.05	1.93	2.00	---	---	7.64
18	2.75	2.22	2.16	3.13	2.50	2.50	4.12	1.92	2.21	---	---	7.72
19	2.68	2.21	2.16	2.99	2.48	2.47	3.94	1.95	2.38	---	---	7.60
20	2.64	2.20	2.16	2.85	2.47	2.44	3.65	1.95	3.13	---	---	7.37
21	2.61	2.19	2.16	2.76	2.44	2.41	3.33	1.94	3.30	---	---	7.11
22	2.61	2.19	2.16	2.72	2.47	2.39	3.07	1.93	3.12	---	7.30	6.86
23	2.59	2.18	2.16	2.69	2.72	2.36	2.89	1.91	2.90	---	7.16	6.62
24	2.59	2.17	2.17	2.68	3.29	2.34	2.75	1.90	2.88	---	6.91	6.42
25	2.65	2.17	2.17	2.68	3.64	2.33	2.63	1.89	4.29	---	6.61	6.28
26	2.65	2.16	2.18	2.69	3.58	2.37	2.55	1.88	5.03	---	6.28	6.26
27	2.62	2.15	2.17	2.69	3.36	2.36	2.50	1.88	5.04	---	5.99	6.20
28	2.59	2.15	2.17	2.69	3.16	2.35	2.45	1.88	5.06	---	5.78	6.12
29	2.57	2.15	2.17	2.69	---	2.33	2.38	1.87	5.11	---	5.60	6.05
30	2.54	2.14	2.16	2.70	---	2.31	2.33	1.86	5.46	---	5.58	5.99
31	2.52	---	2.16	2.71	---	2.30	---	1.87	---	---	5.69	---
MEAN	2.97	2.28	2.15	2.57	2.72	2.60	2.82	1.99	2.70	---	---	6.46
MAX	4.18	2.50	2.18	3.26	3.64	3.01	4.12	2.28	5.46	---	---	7.72
MIN	2.52	2.14	2.11	2.15	2.44	2.30	2.17	1.86	1.72	---	---	5.61

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV 15...	0917	2.26	.17	3.0	6.6	444	18.7	E2.8	E.40	E.070	<.01	E.070	E.07
JAN 23...	1258	2.69	1.3	4.7	6.7	481	19.8	1.8	.05	.030	<.01	.020	.03
APR 01...	1205	2.28	.27	3.7	6.4	569	21.5	2.0	.04	<.020	<.01	<.010	<.02
JUL 15...	0840	6.05	92	1.9	6.2	215	25.4	1.7	.06	.040	.01	.040	.05
SEP 10...	0755	6.51	121	.7	6.3	152	25.8	1.9	.03	<.020	.02	.140	.17

Remark codes used in this report:

< -- Less than
E -- Estimated value

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.82	25.50	25.06	24.98	25.54	25.97	25.00	24.41	23.38	24.89	27.90	28.61
2	27.63	25.48	25.05	25.06	25.54	25.93	24.99	24.36	23.36	24.87	27.96	28.55
3	27.46	25.46	25.04	25.16	25.51	25.91	25.11	24.32	23.32	24.87	28.03	28.48
4	27.28	25.42	25.03	25.13	25.49	25.97	25.25	24.28	23.29	24.96	28.05	28.38
5	27.12	25.40	25.01	25.11	25.48	26.00	25.16	24.24	23.25	24.96	27.90	28.34
6	26.97	25.38	25.01	25.14	25.45	26.03	25.10	24.19	23.21	26.12	27.74	28.44
7	26.83	25.36	25.00	25.15	25.47	26.02	25.04	24.15	23.17	26.95	27.73	28.51
8	26.68	25.33	25.08	25.14	25.48	26.00	24.99	24.11	23.13	27.31	28.01	28.55
9	26.52	25.32	25.11	25.13	25.46	25.97	24.95	24.06	23.09	27.53	27.95	28.56
10	26.37	25.31	25.09	25.12	25.45	25.95	24.92	24.01	23.05	27.70	27.87	28.53
11	26.25	25.29	25.08	25.12	25.46	25.89	24.90	23.97	23.00	27.71	27.80	28.56
12	26.16	25.25	25.06	25.12	25.47	25.83	24.89	23.92	22.96	27.73	27.76	28.66
13	26.09	25.24	25.05	25.15	25.46	25.82	24.92	23.87	22.92	27.97	27.72	28.69
14	26.05	25.24	25.05	25.26	25.45	25.82	24.89	23.83	22.88	28.15	27.77	28.65
15	26.10	25.22	25.04	25.47	25.44	25.77	24.91	23.78	22.85	28.02	28.58	28.66
16	26.04	25.20	25.04	25.49	25.43	25.73	24.88	23.74	22.84	27.92	28.57	28.83
17	25.97	25.19	25.04	25.55	25.40	25.67	24.84	23.68	22.97	27.88	28.40	28.81
18	25.91	25.17	25.05	25.61	25.42	25.60	24.83	23.64	24.17	27.86	28.29	28.75
19	25.86	25.18	25.05	25.65	25.42	25.57	24.79	23.66	24.87	27.88	28.25	28.74
20	25.83	25.18	25.04	25.65	25.38	25.53	24.76	23.65	24.81	27.87	28.32	28.82
21	25.81	25.17	25.02	25.62	25.34	25.51	24.74	---	24.77	27.85	28.40	28.80
22	25.83	25.16	25.01	25.63	25.37	25.48	24.71	---	24.75	27.83	28.45	28.78
23	25.81	25.16	25.01	25.63	25.66	25.43	24.68	---	24.74	27.80	28.52	28.75
24	25.77	25.15	25.02	25.60	25.91	25.37	24.64	---	24.89	27.81	28.57	28.74
25	25.80	25.13	25.02	25.59	25.98	25.30	24.61	23.41	24.97	27.96	28.58	28.76
26	25.79	25.12	25.04	25.59	26.05	25.24	24.57	23.37	24.91	28.27	28.57	28.71
27	25.75	25.12	25.03	25.59	26.07	25.19	24.55	23.32	24.93	28.27	28.63	28.64
28	25.68	25.11	25.01	25.59	26.02	25.17	24.52	23.28	24.90	28.15	28.61	28.56
29	25.61	25.09	25.01	25.57	---	25.13	24.48	23.23	24.88	28.01	28.58	28.49
30	25.57	25.08	25.00	25.56	---	25.08	24.44	23.19	24.89	27.88	28.68	28.42
31	25.55	---	24.99	25.56	---	25.02	---	23.21	---	27.86	28.65	---
MEAN	26.26	25.25	25.04	25.38	25.56	25.64	24.84	---	23.84	27.32	28.22	28.63
MAX	27.82	25.50	25.11	25.65	26.07	26.03	25.25	---	24.97	28.27	28.68	28.83
MIN	25.55	25.08	24.99	24.98	25.34	25.02	24.44	---	22.84	24.87	27.72	28.34

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 15...	0805	25.22	1.5	--	1.6	6.0	386	18.8	--	--	--	--	--
JAN 24...	0717	25.61	5.0	160	3.1	6.7	402	19.7	65.0	4.00	1.90	11.0	23.0
APR 01...	1111	25.01	.20	240	1.8	6.3	388	23.0	65.0	3.90	2.10	11.0	25.0
JUL 15...	1302	28.01	83	240	1.7	6.6	321	26.1	51.0	3.20	2.10	9.5	20.0
AUG 14...	1252	27.67	56	--	1.3	6.2	249	25.2	--	--	--	--	--
SEP 11...	1310	28.58	169	320	--	6.3	186	25.3	31.0	2.10	2.50	6.1	11.0

Date	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV 15...	--	--	--	--	E2.3	.12	<.020	<.01	.020	E.03	--
JAN 24...	.1	5.80	47.0	333	2.1	.02	<.020	<.01	.020	<.02	100
APR 01...	.2	7.10	2.60	298	2.6	.38	<.020	.02	.050	.08	100
JUL 15...	.1	7.60	52.0	291	2.1	.13	.020	.02	.040	.04	84.0
AUG 14...	--	--	--	--	2.3	.04	<.020	.01	.040	.06	--
SEP 11...	.2	7.70	1.70	172	1.8	.02	.020	.01	.060	.07	53.0

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

HILLSBOROUGH RIVER BASIN

02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.45	22.58	22.46	22.13	22.39	22.38	21.16	19.05	17.58	20.63	22.50	21.87
2	21.49	22.57	22.43	22.16	22.39	22.40	21.08	19.00	17.48	21.38	22.51	21.91
3	21.83	22.57	22.40	22.25	22.38	22.40	21.07	18.91	17.31	22.04	22.52	21.92
4	22.23	22.54	22.38	22.25	22.34	22.47	21.18	18.83	17.15	22.52	22.45	21.96
5	22.22	22.50	22.38	22.21	22.29	22.44	21.10	18.70	16.96	22.55	22.41	21.82
6	22.36	22.48	22.42	22.20	22.23	22.40	21.00	18.60	16.93	22.45	22.39	21.88
7	22.30	22.44	22.41	22.22	22.27	22.43	20.87	18.50	16.84	22.40	22.47	22.00
8	22.58	22.41	22.45	22.22	22.36	22.49	20.72	18.42	16.74	22.55	22.42	22.04
9	22.71	22.42	22.45	22.19	22.38	22.48	20.63	18.41	16.77	22.57	22.35	21.99
10	22.62	22.43	22.48	22.17	22.37	22.49	20.47	18.36	16.64	22.54	22.42	21.99
11	22.44	22.42	22.50	22.17	22.40	22.49	20.38	18.24	16.52	22.51	22.41	22.04
12	22.63	22.39	22.45	22.19	22.39	22.46	20.41	18.11	16.42	22.47	22.34	21.89
13	22.71	22.36	22.43	22.17	22.39	22.41	20.41	17.98	16.46	22.48	22.27	21.73
14	22.70	22.39	22.37	22.20	22.39	22.45	20.32	17.81	16.52	22.36	22.39	21.85
15	22.62	22.44	22.37	22.34	22.36	22.45	20.26	17.67	16.66	22.43	22.32	21.97
16	22.61	22.46	22.37	22.38	22.33	22.44	20.26	17.59	16.75	22.44	22.27	22.13
17	22.67	22.49	22.34	22.41	22.28	22.42	20.26	17.56	16.85	22.49	22.40	22.04
18	22.68	22.48	22.35	22.44	22.26	22.37	20.28	17.46	17.50	22.43	22.35	22.13
19	22.68	22.43	22.36	22.43	22.24	22.34	20.24	17.48	17.81	22.41	22.29	22.01
20	22.68	22.40	22.35	22.45	22.20	22.29	20.21	17.42	17.90	22.48	22.19	21.92
21	22.68	22.39	22.34	22.45	22.17	22.26	20.18	17.26	17.90	22.43	22.15	21.75
22	22.67	22.41	22.30	22.41	22.20	22.23	20.03	17.08	18.17	22.49	22.23	21.80
23	22.67	22.44	22.27	22.44	22.35	22.13	19.90	17.05	18.30	22.51	22.29	21.91
24	22.68	22.45	22.26	22.47	22.38	22.03	19.75	17.12	18.52	22.47	22.26	21.78
25	22.70	22.46	22.22	22.46	22.35	21.94	19.65	17.22	19.24	22.55	22.21	21.64
26	22.67	22.46	22.22	22.44	22.32	21.86	19.60	17.24	19.22	22.48	22.20	21.89
27	22.66	22.46	22.23	22.41	22.28	21.75	19.56	17.25	19.25	22.48	22.00	21.99
28	22.64	22.46	22.23	22.36	22.33	21.67	19.44	17.28	19.34	22.51	22.02	22.09
29	22.62	22.47	22.23	22.33	---	21.57	19.30	17.20	19.60	22.47	22.05	22.04
30	22.61	22.47	22.21	22.35	---	21.46	19.18	17.23	20.00	22.53	22.19	22.07
31	22.60	---	22.19	22.38	---	21.31	---	17.36	---	22.55	21.95	---
MEAN	22.50	22.46	22.35	22.31	22.32	22.22	20.30	17.85	17.64	22.37	22.30	21.93
MAX	22.71	22.58	22.50	22.47	22.40	22.49	21.18	19.05	20.00	22.57	22.52	22.13
MIN	21.45	22.36	22.19	22.13	22.17	21.31	19.18	17.05	16.42	20.63	21.95	21.64

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL

LOCATION.--Lat 28°01'15", long 82°26'05" (1927 North American datum), in NE $\frac{1}{4}$ 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, 2.29 ft below NGVD, Dec. 25, 2000, Jan. 10, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.98 ft, Sept. 5; minimum, 2.28 ft below NGVD, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.63	2.90	1.99	-1.04	2.32	-1.44	2.08	-1.90	1.48	-1.49	0.82	-1.65
2	3.40	2.03	2.27	-0.98	1.99	-1.69	1.79	-1.71	1.17	-1.25	2.81	-0.78
3	2.99	1.38	2.47	-0.89	1.93	-1.81	2.33	-1.54	1.17	-1.21	2.42	-0.40
4	2.84	1.34	2.13	-1.42	1.52	-2.02	0.21	-2.10	0.61	-1.20	0.39	-2.07
5	2.98	0.98	1.69	-1.61	1.38	-1.80	1.14	-1.00	1.13	-1.88	0.34	-2.28
6	2.67	1.07	1.55	-1.12	1.25	-1.63	2.68	-0.33	2.32	-1.59	1.24	-2.11
7	2.93	0.22	1.67	-0.99	1.43	-1.17	0.96	-0.97	2.10	-0.42	1.39	-1.60
8	1.59	-0.99	1.90	-0.85	1.92	-0.46	0.55	-2.23	1.14	-2.03	1.13	-1.43
9	1.33	-0.49	1.62	-1.04	1.62	-0.60	1.16	-1.86	1.45	-1.87	1.05	-1.50
10	1.77	-0.32	1.76	-0.81	1.87	-0.63	1.76	-1.82	1.53	-1.70	0.88	-1.69
11	2.27	-0.62	2.22	-0.34	2.00	-1.01	1.63	-1.60	1.56	-1.84	1.40	-2.02
12	2.48	-0.40	2.02	-0.66	2.11	-1.30	2.23	-1.76	1.62	-1.60	1.97	-1.29
13	3.16	0.23	1.82	-1.16	2.28	-1.52	2.30	-2.00	1.44	-1.58	2.42	-0.72
14	3.37	0.38	1.86	-1.34	2.39	-1.15	1.87	-1.37	1.27	-1.79	1.39	-1.02
15	2.33	-0.17	1.91	-1.38	2.29	-1.39	2.47	-1.43	1.35	-1.21	1.33	-1.05
16	2.25	-0.61	1.97	-1.51	1.94	-1.63	1.17	-1.82	1.19	-1.06	1.56	-1.03
17	1.70	-1.49	1.64	-2.00	2.02	-1.11	1.11	-1.49	1.03	-1.32	1.35	-1.16
18	0.99	-1.44	1.75	-1.69	2.80	-1.20	1.06	-1.28	0.88	-1.41	1.50	-1.37
19	1.46	-1.23	2.01	-1.19	2.00	-0.83	1.37	-1.04	1.68	-1.26	1.93	-1.37
20	2.37	-0.90	2.11	-0.66	1.58	-1.37	1.20	-1.07	2.55	-0.48	1.93	-1.06
21	2.13	-0.78	2.25	-0.60	0.56	-1.49	1.02	-0.43	1.84	-0.53	1.71	-0.80
22	2.18	-0.53	1.75	-0.33	1.32	-0.79	0.94	-1.03	1.68	-1.02	1.30	-1.14
23	2.33	-0.23	1.67	-0.12	2.14	-0.27	1.28	-1.37	1.25	-1.48	1.30	-2.17
24	2.21	0.12	1.79	-0.12	1.81	-0.37	1.91	-1.47	1.70	-1.83	1.71	-1.81
25	2.41	-0.21	1.76	-0.27	1.39	-0.80	1.72	-1.32	1.99	-1.78	1.80	-1.33
26	1.91	-1.03	1.58	-0.41	1.23	-1.29	1.62	-1.66	2.26	-1.45	1.99	-1.38
27	0.77	-1.18	1.80	-0.93	2.25	-1.53	1.76	-2.00	2.57	-1.46	1.92	-1.36
28	0.46	-1.21	2.02	-1.13	2.54	-1.11	2.04	-1.94	0.99	-1.80	1.64	-1.48
29	0.82	-1.20	2.25	-0.93	2.74	-0.66	2.02	-1.82	---	---	1.53	-1.42
30	1.08	-1.43	2.23	-1.12	2.35	-1.52	1.86	-1.78	---	---	2.11	-1.06
31	1.67	-1.01	---	---	2.22	-1.78	1.78	-1.51	---	---	2.49	-0.76
MONTH	3.63	-1.49	2.47	-2.00	2.80	-2.02	2.68	-2.23	2.57	-2.03	2.81	-2.28

HILLSBOROUGH RIVER BASIN

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, temperature, and dissolved oxygen sensors located near the surface and 1.0 ft above the bottom.

REMARKS.--Specific conductance and temperature record are rated good. Dissolved oxygen record is rated poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 28,300 microsiemens, June 4, 5, 2000; bottom sensor maximum, 27,800 microsiemens, June 5, 2000; top sensor minimum, 82 microsiemens, Dec. 18, 1997; bottom sensor minimum, 87 microsiemens, Dec. 18, 1997.

TEMPERATURE.--Top sensor maximum, 33.5°C, June 18, 1998, Aug. 25, 2000; bottom sensor maximum, 32.6°C, July 28, 29, 2001; top sensor minimum, 9.6°C, Jan. 5, 2001; bottom sensor minimum, 11.2°C, Jan. 6, 1999.

DISSOLVED OXYGEN.--Top sensor maximum, 10.7 mg/L, July 3, 2001; bottom sensor maximum, 15.3 mg/L, Sept. 4, 2001; top sensor minimum, 0.1 mg/L, June 2-4, June 8-11, 2002; bottom sensor minimum, 0.2 mg/L, July 5-11, 2001 (estimated).

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 18,600 microsiemens, Mar. 13; bottom sensor maximum, 18,400 microsiemens, Mar. 13; top sensor minimum, 171 microsiemens, Oct. 1; bottom sensor minimum, 174 microsiemens, Oct. 1.

TEMPERATURE.--Top sensor maximum, 30.6°C, July 18, Aug. 14; bottom sensor maximum, 30.7°C, Aug. 14; top sensor minimum, 10.8°C, Jan. 10; bottom sensor minimum, 11.7°C, Jan. 10.

DISSOLVED OXYGEN.--Top sensor maximum, 8.3 mg/L, Apr. 30; bottom sensor maximum, 11.8 mg/L, Oct. 19; top sensor minimum, 0.1 mg/L, June 2-4, 8-11; bottom sensor minimum, 0.3 mg/L, May 9-10.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	180	171	2850	391	16400	14200	17900	14800	11100	9220	3710	3380
2	187	173	4690	610	16400	14000	17400	11100	11000	9720	6490	3370
3	194	180	6290	1210	16100	14200	14600	11000	11000	9870	5420	3670
4	198	182	6650	1760	15400	13900	13300	11600	11000	9900	3740	3610
5	204	191	6990	2340	15100	13700	13400	12000	10900	9300	3870	3500
6	209	196	7820	3460	15500	13000	13600	12400	11400	9660	5720	2830
7	215	200	9870	4670	16400	12500	12900	12000	10900	8760	11400	2840
8	236	207	11400	6390	15600	12300	12600	11400	9910	7880	14700	5300
9	220	210	12700	7870	14700	12700	12600	11200	10500	8010	16600	9160
10	227	214	13400	9820	14500	13100	12400	10800	11500	8050	16600	11600
11	241	218	14400	11000	14400	12800	12500	11100	11800	8660	17000	10300
12	269	230	14400	11500	14300	12400	13400	11200	12400	8730	17900	14000
13	249	228	14200	12000	15400	12200	13600	10800	12900	9310	18600	14100
14	247	230	14100	11900	15700	12800	14000	9560	12900	9890	17200	14000
15	257	236	14100	10800	15600	12900	12600	8490	13600	10800	16600	14300
16	263	236	13800	8820	15100	13400	11000	9280	13800	11100	16000	13400
17	267	242	13300	11100	15000	13300	11100	9000	13500	11400	15500	14200
18	278	248	12800	9380	15200	13000	11500	9670	13100	11500	15300	14000
19	279	254	12600	10000	13900	13300	12100	9790	14600	11600	14900	14100
20	279	258	13200	10800	13700	12600	12000	9970	15600	12000	14700	9540
21	273	259	14000	11400	13300	12500	11800	10400	15200	12700	13300	5400
22	276	259	14900	11600	13300	12600	11400	10200	14100	5230	10300	4830
23	280	262	16000	12800	16400	12700	11400	10100	10500	2960	10100	6940
24	293	269	16200	14000	15900	13200	12000	9950	4720	3730	13700	8300
25	290	262	16300	14000	15800	12700	11900	10100	5040	3700	14400	9400
26	287	275	15700	14100	15700	12700	11400	9970	6180	3720	14700	7150
27	332	274	15800	13800	16900	12500	11300	9910	6790	3670	13900	6380
28	314	284	16300	14100	17500	14200	11400	10100	4000	3640	12100	6760
29	326	286	16600	14300	17700	14900	11400	9010	---	---	11600	6280
30	324	292	16600	14000	17800	14900	11400	9630	---	---	11400	6300
31	1300	294	---	---	17900	14900	11500	9570	---	---	10800	6100
MONTH	1300	171	16600	391	17900	12200	17900	8490	15600	2960	18600	2830

HILLSBOROUGH RIVER BASIN

02304515 HILLSBOROUGH RIVER AT HANNA'S WHIRL AT TAMPA, FL

WATER-QUALITY RECORDS

LOCATION.--Lat 28°00'48", long 82°26'29" (1927 North American datum), in NE¹/₄ sec.30, T.28 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, attached to a private boat dock on left bank, 4,500 ft upstream from the Nebraska Avenue bridge, and approximately 1.3 mi downstream from the Hillsborough River Dam.

DRAINAGE AREA.--634 mi².

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

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

REMARKS.--Specific conductance and temperature records good, and dissolved oxygen records poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 27,100 microsiemens, June 5, 2002; bottom sensor maximum, 30,700 microsiemens, July 16, 2001; top sensor minimum, 108 microsiemens, Sept. 22, 2001; bottom sensor minimum, 132 microsiemens, Sept. 12, 2002.

TEMPERATURE.--Top sensor maximum, 32.3°C, June 16, 2001; bottom sensor maximum, 31.6°C, July 30, 2001; top sensor minimum, 13.8°C, Jan. 11, 2002; bottom sensor minimum, 13.5°C, Jan. 9, 2002.

DISSOLVED OXYGEN.--Top sensor maximum, 12.5 mg/L, Aug. 1, 2001; bottom sensor maximum, 13.9 mg/L, Aug. 1, 2001; top sensor minimum, <0.2 mg/L, Sept. 4, 2001, May 4, 5, 8-12, 14, 17, 2002; bottom sensor minimum, <0.2 mg/L, June 20-27, 2001.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 27,100 microsiemens, June 5; bottom sensor maximum, 29,800 microsiemens, June 5; top sensor minimum, 147 microsiemens, Sept. 19; bottom sensor minimum, 141 microsiemens, Sept. 19.

TEMPERATURE.--Top sensor maximum, 31.3°C, Aug. 14; bottom sensor maximum, 30.3°C, July 19; top sensor minimum, 13.8°C, Jan. 11; bottom sensor minimum, 13.5°C, Jan. 9.

DISSOLVED OXYGEN.--Top sensor maximum, 11.1 mg/L, May 7; bottom sensor maximum, 12.8 mg/L, May 17, June 9; top sensor minimum, <0.2 mg/L, May 4, 5, 8-12, 14, 17; bottom sensor minimum, 0.3 mg/L, Apr. 17, 25.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR SURFACE)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	172	168	10700	1660	17500	15100	17900	15100	13300	10700	8710	3660
2	179	171	11800	2300	16400	14400	17500	13800	12400	10600	13200	3870
3	195	176	12300	3110	15900	13500	15600	12500	11900	10600	11000	4060
4	195	183	12300	3770	15700	13100	13800	12400	11500	10200	---	---
5	229	190	12000	2500	17000	13100	13500	12500	11600	10400	---	---
6	230	197	13100	5350	18500	14000	16200	12900	15300	10400	16900	4420
7	228	201	15500	6740	18700	13200	14300	12800	14200	10400	19400	5150
8	238	213	17300	7210	18600	12700	13500	10800	12200	9540	22200	6610
9	222	211	19200	8510	15500	13100	12100	11000	14300	9700	20500	9520
10	225	213	16400	10800	15000	13100	13500	11500	14300	10400	18100	12400
11	306	217	17000	13200	15400	12400	13800	11100	14400	10600	19100	14600
12	652	237	16600	13200	16900	12600	15300	11200	15000	10300	20400	12600
13	303	230	16200	13600	17900	12600	15800	11700	14900	11700	19200	15600
14	253	194	16000	13600	17600	13100	15800	10400	15100	12200	17200	15100
15	261	230	15100	12500	15900	13500	14000	9480	15700	12500	16300	14600
16	268	238	13900	12500	15400	13900	12900	10100	15500	12500	15700	14000
17	278	242	13900	12100	15400	13100	13400	9650	15700	12600	15500	13600
18	292	252	14400	10700	15000	12500	13700	10900	15400	13000	15400	13000
19	306	261	15700	10700	13800	11900	14100	11300	18900	13000	14600	12900
20	302	259	18300	11000	13200	10800	13500	11300	18800	13200	14200	12500
21	542	260	21100	12000	13500	12200	12400	10500	17000	13200	13300	8210
22	284	261	22500	12700	18600	12300	11800	10900	13800	7280	11200	6900
23	315	269	22000	13500	19500	13700	13000	10900	11000	4660	14600	8870
24	814	279	17900	14400	19000	15000	12500	9430	10100	4360	19000	10200
25	630	257	16700	14900	18000	15200	11800	9820	11300	4390	18300	10900
26	302	277	16600	14800	17800	14900	12000	10500	12100	4680	17800	10700
27	304	279	17100	14800	21300	15200	11900	10600	12700	4120	16500	9460
28	332	292	17900	14400	21300	14700	12200	10200	7810	3870	14600	10000
29	708	299	18700	14800	23000	15600	12700	10400	---	---	14100	9170
30	5900	311	18200	14300	18900	15300	13300	10600	---	---	13300	9030
31	9330	569	---	---	18500	16300	13400	10300	---	---	12700	8600
MONTH	9330	168	22500	1660	23000	10800	17900	9430	18900	3870	22200	3660

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02304515 HILLSBOROUGH RIVER AT HANNA'S WHIRL AT TAMPA, FL--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR SURFACE)

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.1	4.6	---	---	---	---	---	---	---	---	---	---
2	5.0	4.1	---	---	---	---	---	---	---	---	---	---
3	8.5	2.5	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	5.3	4.5	---	---	---	---	---	---	---	---	---	---
12	4.5	3.6	---	---	---	---	---	---	---	---	---	---
13	5.9	3.6	---	---	---	---	---	---	---	---	---	---
14	6.8	4.8	---	---	---	---	---	---	---	---	---	---
15	6.6	5.0	---	---	---	---	---	---	---	---	---	---
16	6.0	5.0	---	---	---	---	---	---	---	---	---	---
17	6.8	4.6	---	---	---	---	---	---	---	---	---	---
18	6.8	6.0	---	---	---	---	---	---	---	---	---	---
19	6.5	5.7	---	---	---	---	---	---	---	---	---	---
20	6.3	5.3	---	---	---	---	---	---	---	---	---	---
21	6.4	5.3	---	---	---	---	---	---	---	---	---	---
22	6.8	5.7	---	---	---	---	---	---	---	---	---	---
23	6.4	4.6	---	---	---	---	---	---	---	---	---	---
24	5.7	4.6	---	---	---	---	---	---	---	---	---	---
25	6.2	5.2	---	---	---	---	---	---	---	---	---	---
26	6.4	5.3	---	---	---	---	---	---	---	---	---	---
27	6.6	5.5	---	---	---	---	---	---	---	---	---	---
28	6.9	5.6	---	---	---	---	---	---	---	---	---	---
29	6.9	5.7	---	---	---	---	---	---	---	---	---	---
30	6.9	3.7	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	6.0	0.2	6.2	0.8	---	---	---	---	---	---
2	---	---	6.0	1.9	7.4	1.0	---	---	---	---	---	---
3	---	---	6.0	0.2	7.9	2.1	---	---	---	---	---	---
4	---	---	3.7	<0.2	7.9	0.5	---	---	---	---	---	---
5	---	---	5.6	<0.2	5.4	0.6	---	---	---	---	---	---
6	---	---	5.8	1.9	6.8	0.7	---	---	---	---	---	---
7	---	---	11.1	0.8	6.2	0.7	---	---	---	---	---	---
8	---	---	10.1	<0.2	4.5	0.8	---	---	---	---	---	---
9	---	---	5.7	<0.2	5.6	0.8	---	---	---	---	---	---
10	---	---	5.9	<0.2	5.5	0.8	---	---	---	---	---	---
11	3.6	3.3	5.1	<0.2	4.8	1.0	---	---	---	---	---	---
12	3.6	3.4	4.5	<0.2	4.0	0.9	---	---	---	---	---	---
13	3.6	3.0	---	---	4.9	1.2	---	---	---	---	---	---
14	3.0	2.3	5.7	<0.2	5.1	1.1	---	---	---	---	---	---
15	2.4	1.7	9.7	0.5	6.7	1.5	---	---	---	---	---	---
16	5.3	1.3	9.7	0.2	7.3	1.5	---	---	---	---	---	---
17	4.6	1.0	5.9	<0.2	7.0	1.8	---	---	---	---	---	---
18	4.4	1.1	5.8	0.2	5.4	1.2	---	---	---	---	---	---
19	4.6	1.0	5.2	0.9	4.0	0.7	---	---	---	---	---	---
20	4.9	1.0	4.0	0.3	4.6	0.5	---	---	---	---	---	---
21	7.0	3.6	---	---	4.6	0.9	---	---	---	---	---	---
22	7.7	4.4	---	---	4.9	0.9	---	---	---	---	---	---
23	10.9	2.3	---	---	5.5	0.9	---	---	---	---	---	---
24	6.3	2.1	---	---	7.3	0.9	---	---	---	---	---	---
25	4.6	1.8	---	---	6.2	2.9	---	---	---	---	---	---
26	5.3	1.7	---	---	6.4	2.4	---	---	---	---	---	---
27	4.6	2.8	---	---	6.0	3.2	---	---	---	---	---	---
28	4.5	1.8	---	---	5.5	2.1	---	---	---	---	---	---
29	5.2	1.9	---	---	5.5	1.7	---	---	---	---	---	---
30	4.5	1.4	---	---	5.0	1.4	---	---	---	---	---	---
31	---	---	5.2	0.6	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	7.9	0.5	---	---	---	---	---	---

< Actual value is known to be less than the value shown

HILLSBOROUGH RIVER BASIN

02304520 HILLSBOROUGH RIVER AT SULPHUR SPRINGS, FL

LOCATION.--Lat 28°01'10", long 82°27'07" (1927 North American datum), in NE $\frac{1}{4}$ sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, on left bank, on private dock on East Hollywood Boulevard, 100 ft downstream from Nebraska Avenue in Sulphur Springs, and 2.0 mi downstream from control structure for Tampa Reservoir.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 2000 to 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, 4.92 ft, July 23, 2001; minimum, 2.74 ft below NGVD, Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.13 ft, Sept. 5; minimum, 2.74 ft below NGVD, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	1.93	0.37	2.14	-0.84	2.04	-1.61	2.06	-1.88	1.54	-1.44	0.81	-1.67
2	2.26	0.04	2.36	-0.78	1.70	-1.81	1.74	-1.70	1.19	-1.17	2.80	-0.68
3	2.29	0.06	2.58	-0.69	1.60	-1.85	2.28	-1.51	1.19	-1.13	2.38	-0.45
4	2.37	-0.06	2.26	-1.14	1.16	-1.88	0.26	-2.07	0.64	-1.12	0.36	-2.33
5	2.54	0.08	1.82	-1.28	1.18	-1.91	1.19	-0.92	1.16	-1.81	0.33	-2.74
6	2.63	0.10	1.69	-0.87	0.99	-1.85	2.61	-0.24	2.32	-1.52	1.18	-2.13
7	2.96	-0.28	1.81	-0.79	1.46	-1.53	0.93	-0.90	1.97	-0.36	1.32	-1.59
8	1.68	-0.78	2.03	-0.65	1.86	-0.43	0.57	-2.21	1.10	-2.02	1.10	-1.41
9	1.44	-1.19	1.76	-0.83	1.49	-0.64	1.33	-1.80	1.48	-1.83	1.01	-1.48
10	1.91	-0.76	1.88	-0.66	1.71	-0.74	1.93	-1.68	1.52	-1.70	0.88	-1.66
11	2.37	-0.38	2.31	-0.19	1.98	-1.13	1.82	-1.41	1.56	-1.82	1.38	-2.00
12	2.65	-0.25	2.12	-0.51	2.08	-1.18	2.39	-1.58	1.66	-1.52	1.89	-1.25
13	3.31	0.41	1.92	-0.94	2.29	-1.40	2.43	-1.81	1.48	-1.51	2.39	-0.69
14	3.47	0.39	1.85	-1.11	2.38	-1.06	2.12	-1.19	1.30	-1.71	1.39	-0.98
15	2.46	-0.23	1.91	-1.26	2.27	-1.35	2.57	-1.26	1.33	-1.13	1.35	-1.00
16	2.38	-0.42	1.97	-1.40	1.93	-1.60	1.33	-1.66	1.23	-0.97	1.56	-0.96
17	1.84	-1.29	1.67	-1.43	2.00	-1.07	1.24	-1.33	1.03	-1.25	1.35	-1.13
18	1.18	-1.31	1.79	-1.44	2.80	-1.16	1.18	-1.13	0.98	-1.36	1.47	-1.32
19	1.63	-1.07	2.02	-1.09	2.00	-0.80	1.47	-0.87	1.75	-1.22	1.91	-1.34
20	2.57	-0.72	2.14	-0.62	1.57	-1.34	1.31	-0.90	2.58	-0.39	1.89	-1.01
21	2.29	-0.60	2.24	-0.56	0.57	-1.45	1.10	-0.31	1.86	-0.47	1.69	-0.77
22	2.31	-0.43	1.78	-0.28	1.30	-0.75	1.07	-0.87	1.70	-0.97	1.28	-1.09
23	2.50	-0.06	1.66	-0.07	2.13	-0.21	1.36	-1.21	1.25	-1.45	1.31	-2.25
24	2.35	0.27	1.73	-0.08	1.74	-0.35	2.01	-1.33	1.72	-1.89	1.71	-1.77
25	2.30	-0.15	1.73	-0.29	1.38	-0.79	1.79	-1.19	2.02	-1.81	1.84	-1.28
26	2.03	-0.85	1.49	-0.42	1.24	-1.25	1.75	-1.52	2.26	-1.43	2.00	-1.33
27	0.89	-1.07	1.75	-0.94	2.24	-1.49	1.90	-1.90	2.59	-1.45	1.90	-1.31
28	0.60	-1.05	1.92	-1.17	2.52	-1.07	2.12	-1.83	0.96	-1.88	1.64	-1.43
29	0.95	-1.01	2.06	-1.04	2.73	-0.69	2.09	-1.71	---	---	1.55	-1.38
30	1.24	-1.21	1.95	-1.29	2.35	-1.49	1.96	-1.67	---	---	2.10	-1.00
31	1.81	-0.83	---	---	2.21	-1.75	1.90	-1.40	---	---	2.51	-0.75
MONTH	3.47	-1.31	2.58	-1.44	2.80	-1.91	2.61	-2.21	2.59	-2.02	2.80	-2.74

HILLSBOROUGH RIVER BASIN

02304520 HILLSBOROUGH RIVER AT SULPHUR SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January to August 1997 (top and bottom sensors); August 1999 to September 2000 (top and bottom sensors); October 2000 to current year (top, middle, and bottom sensors).

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 38,100 microsiemens, Dec. 4, 2000; middle sensor maximum, 38,300 microsiemens, Dec. 6, 7, 2000; bottom sensor maximum, 39,300 microsiemens, Dec. 6, 7, 2000; top sensor minimum, 135 microsiemens, Sept. 22, 2001; middle sensor minimum, 148 microsiemens, Oct. 1, 2001; bottom sensor minimum, 137 microsiemens, Sept. 22, 2001.

TEMPERATURE.--Top sensor maximum, 33.5°C, July 7, 1997; middle sensor maximum, 30.8°C, June 16, 2001; bottom sensor maximum, 31.4°C, July 25, 1997; top sensor minimum, 14.0°C, Dec. 31, 2000; middle sensor minimum, 15.8°C, Jan. 6, 7, 10, 2001; bottom sensor minimum, 16.4°C, Jan. 20, 21, 1997.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 33,700 microsiemens, June 5; middle sensor maximum, 35,300 microsiemens, June 5; bottom sensor maximum, 36,400 microsiemens, June 5; top sensor minimum, 170 microsiemens, Oct. 1; middle sensor minimum, 148 microsiemens, Oct. 1; bottom sensor minimum, 173 microsiemens, Oct. 1.

TEMPERATURE.--Top sensor maximum, 30.4°C, July 18, 19; middle sensor maximum, 30.4°C, July 18, 19; bottom sensor maximum, 30.4°C, July 18, 19; top sensor minimum, 16.6°C, Jan. 9, 10; middle sensor minimum, 16.4°C, Jan. 10; bottom sensor minimum, 16.8°C, Jan. 8.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR SURFACE)

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	178	170	20700	5420	20500	7600	24000	11200	14300	8970	17000	3710
2	226	172	21000	6310	19100	9780	22300	8760	13300	9080	17700	8450
3	323	182	20700	6810	18600	9530	18700	7700	12000	7440	13300	8340
4	323	195	20400	7020	19500	13600	14700	7000	12700	5970	10200	5370
5	356	200	20700	7280	22300	15200	20300	7450	21600	6480	16900	7150
6	375	216	21500	7560	24200	13100	23600	10900	20000	6890	23600	6140
7	522	227	23600	8120	26300	11200	15500	8620	17800	9700	26500	7770
8	2130	233	26400	8930	21300	10200	16900	5820	19200	8170	29200	9610
9	1220	254	27800	9070	20100	10300	20800	8230	21300	9260	27100	9550
10	757	242	27500	10200	20700	9800	22900	10000	22900	9090	22000	4570
11	1700	249	25600	12400	22300	10500	22800	8800	22800	8170	26600	10400
12	2920	682	22100	11700	23200	12400	24600	9390	24700	8500	27300	10500
13	3750	600	22200	10300	23400	11900	25400	11000	21700	7470	24000	7440
14	3270	234	19300	10400	21600	9760	22500	7760	23100	9680	18200	9360
15	1150	326	19900	9340	19600	9620	20000	6840	22000	8180	17800	8260
16	1980	293	20300	8700	20800	11100	19900	8370	22300	7640	15500	8050
17	2170	175	21600	8600	20400	10500	18300	7850	21700	8010	15900	8440
18	1260	224	23500	10000	20300	8700	18800	7650	22900	8960	14900	6700
19	3260	404	24500	9460	20700	6890	19200	8880	26100	9440	19900	7900
20	9010	605	25800	10300	22700	7940	15300	6520	22700	10900	14500	7620
21	9830	863	28200	12600	24600	7560	16000	4930	16000	7880	12200	6800
22	7340	664	29300	13000	26600	11400	20800	6100	21800	9740	24700	6400
23	17300	1170	29100	12700	27100	14400	14100	7330	18100	7300	22900	7590
24	19200	1340	24500	11000	22200	12000	12900	6520	20400	6140	25100	8550
25	5290	677	24500	11400	27100	11700	11300	7340	20100	6960	25100	10400
26	4140	578	22900	10800	27600	8330	12400	8380	21800	6610	25300	8270
27	4620	853	24900	11700	28800	9070	14200	8960	20000	6650	20500	7400
28	10300	1270	24900	11700	28800	11800	16900	8720	16200	7000	17900	6610
29	17000	1550	23800	14200	29100	12200	15700	10900	---	---	16000	8850
30	20500	2420	21300	14500	25200	9790	17000	10100	---	---	16000	8570
31	21900	3720	---	---	25300	12300	16300	8810	---	---	14300	8480
MONTH	21900	170	29300	5420	29100	6890	25400	4930	26100	5970	29200	3710

HILLSBOROUGH RIVER BASIN

02305851 CURIOSITY CREEK AT 122ND AVENUE NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°03'30", long 82°27'41" (1927 North American datum), in NW¼ sec.12, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, on upstream side of culvert headwall on 122nd Avenue, 600 ft west of Florida Avenue (Business U.S. Highway 41), 0.25 mi north of Fowler Avenue (State Highway 582), and 2.5 mi northeast of Sulphur Springs.

DRAINAGE AREA.--2.59 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 3.86 ft below National Geodetic Vertical Datum of 1929 (Hillsborough County Engineering Department).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	1.6	1.4
2	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	1.9	0.99
3	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	2.1	0.72
4	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	1.4	0.59
5	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.69	1.3
6	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.44	2.0
7	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	6.9	1.2
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	6.3	0.73
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	1.5	0.52
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.79	0.39
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.51	3.0
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.35	5.5
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.3	0.36	5.4
14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.6	8.0	2.4
15	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	26	1.6
16	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	6.9	3.2
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	3.5	5.9
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.15	0.70	2.1
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	4.7	1.9
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	3.1	5.5
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	e2.1	2.0
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	1.2	1.3
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.97	1.1
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.05	0.65	3.4
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	5.6	0.47	7.0
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	12	0.37	6.6
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.1	1.3	3.5
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4	0.97	2.2
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.13	2.1	1.5	1.6
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	3.5	3.7	4.0	1.3
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	7.2	2.4	---
TOTAL	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.36	73.53	93.67	76.34
MEAN	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.21	2.37	3.02	2.54
MAX	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.5	12	26	7.0
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.35	0.39
MED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	1.5	1.9
AC-FT	1.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	146	186	151
CFSM	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.92	1.17	0.98
IN.	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	1.06	1.35	1.10

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	0.19	0.046	0.000	0.000	0.000	0.001	0.000	0.000	0.080	0.95	1.62	1.75
MAX	0.53	0.14	0.000	0.000	0.000	0.002	0.000	0.000	0.21	2.37	3.02	2.54
(WY)	2000	2000	2000	2000	2000	2001	2000	2000	2002	2002	2002	2002
MIN	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.16	0.60	0.59
(WY)	2001	2001	2000	2000	2000	2000	2000	2000	2001	2000	2001	2000

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2000 - 2002

ANNUAL TOTAL	91.88	250.67	
ANNUAL MEAN	0.25	0.69	0.39
HIGHEST ANNUAL MEAN			0.69 2002
LOWEST ANNUAL MEAN			0.22 2000
HIGHEST DAILY MEAN	18 Sep 14	26 Aug 15	26 Aug 15 2002
LOWEST DAILY MEAN	0.00 Many Days	0.00 Many Days	0.00 Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00 Jan 1	0.00 Oct 17	0.00 Oct 24 1999
MAXIMUM PEAK FLOW		52 Aug 15	52 Aug 15 2002
MAXIMUM PEAK STAGE		33.09 Aug 15	33.09 Aug 15 2002
ANNUAL RUNOFF (AC-FT)	182	497	280
ANNUAL RUNOFF (CFSM)	0.097	0.27	0.15
ANNUAL RUNOFF (INCHES)	1.32	3.60	2.03
10 PERCENT EXCEEDS	0.37	2.0	0.81
50 PERCENT EXCEEDS	0.00	0.00	0.00
90 PERCENT EXCEEDS	0.00	0.00	0.00

HILLSBOROUGH RIVER BASIN

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL--Continued

DAILY MEAN DIVERSION, CUBIC FEET PER SECOND, FROM SULPHUR SPRINGS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3.2	6.5	6.5	11	---	---
2	---	---	---	---	---	---	3.2	6.5	6.5	11	---	---
3	---	---	---	---	---	---	3.2	6.5	6.5	11	---	---
4	---	---	---	---	---	---	3.2	6.5	6.5	4.6	---	---
5	---	---	---	---	---	---	3.2	6.5	6.5	---	---	---
6	---	---	---	---	---	---	3.2	6.5	6.5	---	---	---
7	---	---	---	---	---	---	3.2	6.5	6.5	---	---	---
8	---	---	---	---	---	---	3.2	6.5	6.5	---	---	---
9	---	---	---	---	---	---	3.2	6.5	6.5	---	---	---
10	---	---	---	---	---	---	3.2	6.5	6.5	---	---	---
11	---	---	---	---	---	---	3.2	6.5	6.5	---	---	---
12	---	---	19	---	---	---	3.2	3.9	6.5	---	---	---
13	---	---	19	---	---	---	3.2	10	2.0	---	---	---
14	---	---	---	---	---	---	3.2	6.5	4.6	---	---	---
15	---	---	---	---	---	---	6.5	6.5	6.5	---	---	---
16	---	---	---	---	---	---	6.5	6.5	6.5	---	---	---
17	---	---	---	---	---	---	6.5	6.5	6.5	---	---	---
18	---	---	---	---	---	---	6.5	6.5	12	---	---	---
19	---	---	---	---	---	---	6.5	6.5	13	---	---	---
20	---	---	---	---	---	3.7	6.5	6.5	11	---	---	---
21	---	---	---	---	---	7.6	6.5	6.5	11	---	---	---
22	---	---	---	---	---	2.4	6.5	6.5	11	---	---	---
23	---	---	---	---	---	---	6.5	6.5	11	---	---	---
24	---	---	---	---	---	---	6.5	6.5	11	---	---	---
25	---	---	---	---	---	2.2	6.5	6.5	11	---	---	---
26	---	---	---	---	---	6.2	6.5	5.2	11	---	---	---
27	---	---	---	---	---	5.9	6.5	5.2	11	---	---	---
28	---	---	---	---	---	2.4	6.5	5.2	11	---	---	---
29	---	29	---	---	---	5.5	6.5	6.5	11	---	---	---
30	---	29	---	---	---	4.8	6.5	6.5	7.2	---	---	---
31	---	---	---	---	---	5.0	---	6.5	---	---	---	---
TOTAL	---	---	---	---	---	---	148.8	198.5	246.3	---	---	---
MEAN	---	---	---	---	---	---	4.96	6.40	8.21	---	---	---
MAX	---	---	---	---	---	---	6.5	10	13	---	---	---
MIN	---	---	---	---	---	---	3.2	3.9	2.0	---	---	---

HILLSBOROUGH RIVER BASIN

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL--Continued

WATER-QUALITY RECORDS

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

INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature sensor located 1.0 ft above the bottom of the pool.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 6,670 microsiemens, Jan. 29, 2002; minimum, 1,780 microsiemens, June 27, 2002.

TEMPERATURE.--Maximum, 25.8°C, Aug. 27, 1999, Aug. 3, 4, 16, Sept. 15, 2000; minimum, 23.9°C, Jan. 16 - Feb. 7, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 6,670 microsiemens, Jan. 29; minimum, 1,780 microsiemens, June 27.

TEMPERATURE.--Maximum, 25.6°C, many days; minimum, 24.2°C, Jan. 15-18, Feb. 24, 25.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(1 FT ABOVE BOTTOM)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3990	3920	3980	3930	3930	3890	3420	3400	4190	4040	3530	3490
2	3930	3790	4000	3970	3930	3890	3420	3350	4040	3890	3530	3490
3	3930	3850	4040	3990	3920	3890	3350	3290	3890	3800	3600	3530
4	4030	3910	4060	4020	3950	3890	3310	3290	3800	3590	3600	3570
5	4090	4020	4060	4030	3950	3780	3310	3290	3700	3570	3580	3430
6	4120	4070	4030	3960	3930	3870	3360	3300	3610	3540	3430	3270
7	4140	4080	3960	3910	3870	3770	3410	3350	3540	3490	3300	3240
8	4080	4040	3960	3930	3770	3610	3410	3360	3540	3510	3360	3230
9	4040	3990	4010	3960	3610	3540	3360	3280	3530	3500	3430	3350
10	4000	3970	4030	4000	3540	3520	3280	3250	3530	3500	3420	3380
11	4000	3970	4050	4020	3580	3500	3280	3190	3530	3460	3390	3340
12	4030	3980	4030	4000	3590	3540	3350	3270	3530	3460	3350	3320
13	4110	4020	4010	3970	3630	3510	3390	3340	3510	3440	3350	3330
14	4150	4090	4000	3910	3580	3430	3390	3340	3450	3400	3350	3330
15	4110	4050	4010	3970	3560	3520	3350	3300	3400	3360	3340	3320
16	4080	4050	3990	3940	3530	3510	3310	3290	3370	3340	3320	3300
17	4060	4010	3950	3920	3510	3480	3330	3300	3440	3370	3310	3290
18	4020	3990	3940	3910	3480	3460	3350	3330	3390	3350	3290	3260
19	4020	3980	3930	3910	3470	3450	3360	3330	3350	3280	3260	3240
20	4030	4000	3930	3900	3460	3430	3380	3350	3280	3250	3240	3200
21	4040	4010	3940	3910	3450	3430	3380	3360	3310	3240	3220	3180
22	4060	4030	3980	3940	3430	3390	3370	3350	3410	3310	3310	3220
23	4080	4050	4020	3970	3430	3390	3350	3320	3490	3410	3310	3270
24	4070	4010	4030	4010	3460	3430	4910	3310	3490	3470	3270	3180
25	4020	4000	4010	3990	3480	3460	5820	4910	3480	3380	3180	3150
26	4030	3980	3990	3950	3480	3450	6250	5820	3510	3430	3160	3110
27	4020	3980	3960	3860	3450	3420	6500	6200	3550	3500	3130	3100
28	3990	3940	3960	3770	3420	3400	6650	6360	3550	3530	3100	2980
29	3940	3900	3980	3940	3450	3410	6670	5430	---	---	3000	2880
30	3920	3890	4020	3930	3470	3450	5470	4940	---	---	2890	2850
31	3930	3900	---	---	3450	3420	4940	4190	---	---	2850	2800
MONTH	4150	3790	4060	3770	3950	3390	6670	3190	4190	3240	3600	2800

HILLSBOROUGH RIVER BASIN

023060003 SULPHUR SPRINGS RUN AT SULPHUR SPRINGS, FL

LOCATION.--Lat 28°01'15", long 82°27'09" (1927 North American datum), in NE $\frac{1}{4}$ sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, about 300 feet downstream from the Sulphur Springs Pool, and 200 feet upstream from confluence with Hillsborough River.

GAGE-HEIGHT RECORDS

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

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

REMARKS.--During periods of minimum gage heights, gage may have been isolated from the spring run. Actual minimum gage heights may be lower than reported.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.32 ft, Sept. 17, 2000; minimum, 0.44 ft below NGVD, several days in 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.17 ft, Sept. 5; minimum, 0.40 ft below NGVD, Jan. 29, Apr. 26-30, May 1, 5-8, 10-11, 22-23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.94	0.58	2.03	0.37	2.39	0.29	2.11	0.23	1.53	0.21	0.85	-0.21
2	2.11	0.47	2.28	0.37	2.09	0.29	1.79	0.24	1.20	0.21	2.83	-0.17
3	2.15	0.46	2.49	0.36	2.00	0.29	2.33	0.25	1.23	0.22	2.42	-0.14
4	2.24	0.45	2.17	0.35	1.59	-0.22	0.38	0.23	0.70	0.22	0.41	-0.18
5	2.40	0.45	1.72	0.35	1.45	-0.24	1.19	0.24	1.18	0.21	0.47	0.19
6	2.50	0.46	1.59	0.34	1.29	-0.24	2.59	0.25	2.35	0.22	1.22	-0.09
7	2.85	0.44	1.71	0.34	1.47	0.27	0.97	0.24	2.01	0.23	1.37	-0.13
8	1.56	0.43	1.92	0.35	1.95	0.29	0.64	0.23	1.16	0.21	1.16	-0.15
9	1.32	0.41	1.67	0.35	1.64	0.28	1.19	0.23	1.53	0.21	1.07	0.20
10	1.74	0.43	1.79	0.35	1.89	0.28	1.82	0.24	1.55	0.22	0.95	0.20
11	2.21	0.43	2.23	0.35	2.00	-0.29	1.71	0.23	1.61	0.22	1.42	0.20
12	2.49	0.43	2.03	0.34	2.11	-0.16	2.25	0.23	1.65	0.22	1.94	0.21
13	3.14	0.49	1.83	0.33	2.33	-0.17	2.30	0.23	1.47	0.21	2.42	0.21
14	3.32	0.50	1.88	0.33	2.45	0.25	2.01	0.23	1.30	0.21	1.43	0.21
15	2.33	0.41	1.91	0.33	2.32	0.25	2.47	0.25	1.34	0.21	1.39	0.21
16	2.24	0.41	1.97	0.33	1.97	0.25	1.25	0.24	1.25	0.22	1.61	0.21
17	1.72	0.39	1.67	0.33	2.03	0.25	1.16	0.24	1.05	0.21	1.39	0.21
18	1.06	0.39	1.78	0.33	2.84	0.25	1.11	0.23	1.00	0.21	1.51	0.21
19	1.51	0.40	2.01	0.33	2.05	0.25	1.40	0.24	1.75	0.21	1.95	0.21
20	2.41	0.39	2.17	0.34	1.61	0.25	1.23	0.24	2.58	0.22	1.93	0.05
21	2.14	0.39	2.25	0.33	0.65	0.25	1.06	0.24	1.86	0.22	1.73	0.04
22	2.17	0.39	1.79	0.33	1.33	0.25	1.02	0.24	1.70	-0.19	1.30	0.01
23	2.35	0.39	1.71	0.34	2.17	0.27	1.33	0.23	1.25	-0.18	1.35	0.19
24	2.21	0.43	1.78	0.35	1.82	0.26	1.99	0.24	1.73	-0.19	1.74	0.19
25	2.18	0.39	1.78	0.33	1.44	0.25	1.81	0.72	2.01	-0.19	1.86	0.19
26	1.91	0.38	1.62	0.32	1.30	0.25	1.73	0.67	2.26	-0.19	2.01	0.04
27	0.84	0.37	1.93	0.32	2.29	0.25	1.85	0.65	2.58	-0.20	1.91	0.07
28	0.59	0.37	2.11	0.07	2.57	0.25	2.09	0.64	0.98	-0.21	1.67	0.11
29	0.87	0.37	2.29	0.01	2.77	0.24	2.07	-0.40	---	---	1.57	0.08
30	1.16	0.36	2.29	-0.03	2.40	0.23	1.91	0.10	---	---	2.13	0.09
31	1.71	0.37	---	---	2.27	0.23	1.87	0.18	---	---	2.52	0.10
MONTH	3.32	0.36	2.49	-0.03	2.84	-0.29	2.59	-0.40	2.58	-0.21	2.83	-0.21

HILLSBOROUGH RIVER BASIN

023060003 SULPHUR SPRINGS RUN AT SULPHUR SPRINGS, FL--Continued

WATER-QUALITY RECORDS

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

INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature sensor located near the bottom.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 32,200 microsiemens, June 10, 2000; minimum, 1,430 microsiemens, Apr. 29, 2002.

TEMPERATURE.--Maximum, 31.6°C, May 26, 2000; minimum, 14.8°C, Jan. 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 23,300 microsiemens, May 25-26; minimum, 1,430 microsiemens, Apr. 29.

TEMPERATURE.--Maximum, 29.3°C, May 11; minimum, 21.2°C, May 22.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR BOTTOM)

DAY	MAX OCTOBER	MIN	MAX NOVEMBER	MIN	MAX DECEMBER	MIN	MAX JANUARY	MIN	MAX FEBRUARY	MIN	MAX MARCH	MIN
1	3840	3780	3800	3760	3780	3730	3390	3370	4200	4040	3520	3490
2	3780	3740	3830	3800	3760	3730	3390	3190	4040	3890	7380	3480
3	3790	3750	3870	3820	3760	3730	3330	3260	3890	3800	3590	3530
4	3870	3780	3890	3860	3780	3720	3280	3260	3800	3690	3590	3570
5	3920	3870	3890	3850	3770	3630	3280	3250	3700	3610	3580	3440
6	3950	3910	3860	3790	---	---	3320	3260	3610	3520	3440	3270
7	3970	3910	3800	3750	---	---	3380	3320	3530	3460	3280	3240
8	3910	3860	3800	3760	---	---	3380	3330	3510	3490	3410	3280
9	3860	3810	3830	3800	---	---	3330	3250	3510	3490	3440	3410
10	3820	3800	3850	3830	---	---	3250	3230	3500	3480	3430	3360
11	3820	3800	3860	3840	---	---	3280	3230	3500	3480	3360	3310
12	3860	3810	3860	3820	3560	3500	3320	3280	3480	3460	3310	3280
13	3950	3860	3830	3800	3600	3550	3340	3290	3460	3380	3300	3280
14	3990	3920	3880	3800	3550	3440	3340	3280	3420	3390	3300	3290
15	3950	3880	3900	3870	3520	3480	3300	3250	3390	3360	3290	3270
16	3920	3890	---	---	3490	3470	3260	3240	3360	3340	3270	3260
17	3900	3860	---	---	3480	3440	3280	3250	3420	3360	3260	3240
18	3860	3830	---	---	3440	3420	3300	3280	3370	3330	3240	3200
19	3860	3840	---	---	3430	3410	3310	3300	3330	3280	3200	3180
20	3880	3850	---	---	3420	3400	3330	3300	3280	3240	3180	3150
21	3880	3860	---	---	3410	3390	3330	3320	3280	3230	3150	3130
22	3910	3880	3720	3540	3400	3360	3320	3300	3370	3280	3240	3150
23	3930	3900	3790	3600	3380	3360	3300	3260	3460	3370	3240	3210
24	3920	3870	3830	3790	3420	3380	4790	3250	3470	3450	3210	3110
25	3880	3850	---	---	3440	3420	5760	4790	3460	3440	3110	3080
26	3870	3830	---	---	3440	3420	6220	5760	4400	3460	3080	3040
27	3850	3820	---	---	3420	3390	6480	6190	5910	3530	3050	3030
28	3820	3770	---	---	3390	3370	6640	6360	3550	3520	3030	2920
29	3770	3730	3800	3760	3420	3380	6660	3250	---	---	2930	2810
30	3750	3730	3810	3780	3440	3420	5430	4740	---	---	2810	2720
31	3770	3740	---	---	3430	3390	5030	4200	---	---	2760	2720
MONTH	3990	3730	3900	3540	3780	3360	6660	3190	5910	3230	7380	2720

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

023060005 SULPHUR SPRINGS MOUTH AT SULPHUR SPRINGS, FL

WATER-QUALITY RECORDS

LOCATION.--Lat 28°01'15", long 82°27'12" (1927 North American datum), in NE¹/₄ sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, about 500 feet downstream from the Sulphur Springs Pool, and at confluence with Hillsborough River.

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

INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature sensor located near the bottom.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 39,000 microsiemens, Dec. 6, 2000; minimum, 1,080 microsiemens, Sept. 7, 2000.

TEMPERATURE.--Maximum, 31.8°C, July 12, 2000; minimum, 15.2°C, Jan. 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 33,100 microsiemens, May 31; minimum, 1,190 microsiemens, June 24.

TEMPERATURE.--Maximum, 30.4°C, June 16; minimum, 19.0°C, Jan. 13.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR BOTTOM)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3890	3780	11600	3910	18200	3870	25000	3340	11400	3980	12800	2070
2	3850	3720	17600	3940	16800	3770	18700	3210	4580	3830	16100	3500
3	3870	3760	19500	3980	14600	2360	16100	3250	5450	3750	12800	3590
4	3930	3800	17400	3950	17500	3760	3840	3220	4760	3660	5660	3470
5	4020	3880	15100	4000	22500	3830	14100	3250	8440	3450	4860	3410
6	4060	3950	11900	3940	23800	3690	23400	3260	16100	3500	22900	2810
7	4080	3860	17500	3900	21700	3790	11700	3320	8960	3500	26000	3200
8	4040	3870	21000	3920	16200	3560	4280	3330	8110	3440	28200	3190
9	3990	3810	14800	3960	11900	3490	11900	3250	19700	2790	15000	3030
10	3950	3780	14900	3990	11500	3460	20800	3180	20000	2850	6750	2460
11	3940	3810	23000	4010	20700	3440	18900	2300	16700	2940	24800	3190
12	3990	3360	13800	3990	22600	3490	23600	2660	20000	3330	23300	3130
13	4050	3940	17300	3910	23000	3570	26500	2140	15200	3310	19800	3290
14	4080	3320	12900	3960	20200	3330	22500	2230	17400	3330	16600	3290
15	4060	3890	13300	3960	18000	3470	19500	3240	12300	3350	11800	3280
16	4040	3330	15400	3930	18000	3360	15100	3180	12800	3250	11800	3260
17	4010	3880	16100	3900	17500	3430	6880	3180	11100	3290	8460	3200
18	3980	3860	21400	3890	20300	3390	7030	3270	19500	3290	6590	3200
19	3980	3840	20300	3880	17000	3390	7350	3290	22000	3260	15800	3180
20	3990	3910	24100	3880	14600	3370	4250	3300	17400	3260	8560	3150
21	4020	3850	25500	3890	5270	3210	4630	3310	15700	3230	8150	3010
22	4020	3930	25700	3910	20300	3350	4550	3290	19700	3280	14200	3030
23	4350	3970	15400	3970	25600	3340	3820	3270	18400	2890	18200	3060
24	4240	3860	13400	3980	14500	3380	6100	3230	19200	3380	21600	2960
25	3980	3830	17800	3970	19500	3390	7610	4770	19000	3420	23200	3110
26	3980	3850	17800	3930	20900	3400	8040	5720	21300	3460	25600	2120
27	3990	3910	18400	3920	29400	3380	7550	6100	19500	3290	18100	3040
28	3980	3910	21000	3780	29400	3370	8360	6300	14500	3430	15900	2010
29	3950	3870	23900	3910	29700	3400	13000	5610	---	---	15000	1980
30	4540	3870	20200	3950	25200	3420	15500	4890	---	---	14900	2670
31	9540	3880	---	---	24600	3380	15400	4140	---	---	13700	2640
MONTH	9540	3320	25700	3780	29700	2360	26500	2140	22000	2790	28200	1980

HILLSBOROUGH RIVER BASIN

023060013 HILLSBOROUGH RIVER AT I-275 AT SULPHUR SPRINGS, FL

WATER-QUALITY RECORDS

LOCATION.--Lat 28°01'12", long 82°27'18" (1927 North American datum), in NE¹/₄ sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, 1,300 feet downstream from bridge, 1,300 feet west of U.S. Highway 41 in Sulphur Springs, and 2.25 mi downstream from Hillsborough River Dam.

DRAINAGE AREA.--637 mi².

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

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 35,700 microsiemens, Jan. 4, 2001, bottom sensor maximum, 40,300 microsiemens, May 18, 2001; top sensor minimum, 238 microsiemens, Sept. 30, 2001; bottom sensor minimum, 253 microsiemens, Sept. 27, 28, 2001.

TEMPERATURE.--Top sensor maximum, 32.0°C, Aug. 6, 2000; bottom sensor maximum, 30.9°C, Aug. 10, 11, 12, 2000; top sensor minimum, 14.2°C, Jan. 5, 2001; bottom sensor minimum, 16.0°C, Jan. 10, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 32,600 microsiemens, May 31; bottom sensor maximum, 38,500 microsiemens, June 5; top sensor minimum, 260 microsiemens, Aug. 10, Sept. 5; bottom sensor minimum, 296 microsiemens, Aug. 14.

TEMPERATURE.--Top sensor maximum, 30.8°C, Aug. 14; bottom sensor maximum, 30.3°C, June 16, 17; top sensor minimum, 17.4°C, Jan. 9; bottom sensor minimum, 17.8°C, Jan. 8.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR SURFACE)

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	520	289	17900	6190	20800	9990	25400	9460	15000	7710	14900	6240
2	633	359	21700	6570	19700	6170	21700	7260	12600	7900	17800	9170
3	701	390	22000	7150	18300	9860	21900	7570	12200	7010	14000	8440
4	725	261	20900	7870	20800	9730	12500	6870	10800	6000	---	---
5	1240	318	21400	7990	23100	13200	20700	7840	19900	5930	---	---
6	1140	297	22300	8570	25600	8330	26000	10400	18800	8370	24600	5560
7	1240	315	24500	8780	26500	11300	17100	7790	16800	8720	26800	8030
8	2590	422	26400	9670	21800	8110	16900	5900	19600	7180	29400	9060
9	2050	499	27300	9480	19700	7450	21500	7320	22200	9070	27600	9880
10	1680	399	27600	9630	18800	7300	24400	8960	22500	9770	24500	5950
11	1150	347	25400	9280	23200	8910	23200	7330	22300	7290	26900	10700
12	3090	865	21200	10000	23700	9440	26600	8980	24800	7750	28000	11900
13	3910	1040	21700	9760	24600	8360	26600	9280	21900	9100	23700	7700
14	3920	440	22600	9910	22900	10900	23200	8900	23500	9960	18600	8950
15	1900	458	20200	9200	20500	9330	20900	6860	22700	9000	16800	9020
16	2150	377	21100	8920	20300	9790	20400	8360	21900	8960	15800	8450
17	2830	945	22300	8810	20600	9930	17100	7870	20800	8770	15500	8080
18	3010	273	23900	3770	21700	9410	19200	7870	23500	7890	15200	8260
19	3540	1080	24600	9700	22600	7990	19000	7970	25800	9030	19200	7420
20	10400	1230	26800	9000	22600	8080	14200	6390	23500	9640	14400	7990
21	11900	1680	28800	9920	24900	8020	15300	6110	16400	7940	12500	6970
22	5330	1160	29700	10200	27600	7690	21100	5960	20600	10600	25200	6260
23	15100	1670	29400	11000	27300	10200	11600	6540	17700	5780	23300	7300
24	18300	2360	23300	10600	27200	9220	10300	6180	20500	6860	26400	9460
25	6110	969	25100	8810	28100	9550	10200	6420	21000	6980	24800	10400
26	4330	1240	25400	8760	28500	8260	11600	5420	22400	5070	26100	9740
27	4740	1400	25300	10500	29100	10700	13700	8150	21000	6640	21400	7700
28	7110	1810	26800	10200	29200	11500	17900	8620	17900	7040	18400	9310
29	10700	3230	24100	11300	30300	10400	15700	10100	---	---	16500	8350
30	21300	3620	21300	11900	26200	11200	16500	8570	---	---	15600	8160
31	22000	5120	---	---	25200	11300	16800	8560	---	---	14600	8850
MONTH	22000	261	29700	3770	30300	6170	26600	5420	25800	5070	29400	5560

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02306028 HILLSBOROUGH RIVER AT PLATT STREET AT TAMPA, FL

LOCATION.--Lat 27°56'30", long 82°27'32" (1927 North American datum), in SE $\frac{1}{4}$ sec.25, T.29 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, near center of span on upstream side of bridge at Platt Street near mouth, and 0.6 mi south of downtown post office at Tampa.
DRAINAGE AREA.--694 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--January to August 1997 (gage heights only), incomplete; February 2001 to current year (gage heights only).

Records prior to 1997 are available in the files of the U.S. geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.63 ft, July 23, 2001; minimum, 7.56 ft, Mar. 5, 2002.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 13.31 ft, Sept. 5; minimum, 7.56 ft, Mar. 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.43	9.31	12.08	9.25	12.37	8.89	12.05	8.39	11.52	8.75	10.81	8.63
2	11.85	9.50	12.32	9.28	12.14	8.61	11.57	8.59	11.13	8.96	12.72	9.74
3	12.02	9.50	12.46	9.39	11.89	8.50	12.12	8.74	11.12	9.02	12.41	9.57
4	12.05	9.54	12.17	8.87	11.60	8.29	10.24	8.12	10.52	9.05	10.48	7.82
5	12.27	9.82	11.72	8.70	11.44	8.48	11.22	9.19	11.17	8.29	10.44	7.56
6	12.44	9.76	11.53	9.14	11.29	8.62	12.58	10.08	12.23	8.65	11.11	8.11
7	12.68	9.55	11.66	9.25	11.36	9.05	10.80	9.32	11.93	8.82	11.28	8.65
8	11.52	9.15	11.95	9.43	11.90	9.78	10.63	7.92	11.19	8.24	11.16	8.79
9	11.30	8.53	11.62	9.23	11.58	9.63	11.13	8.42	11.55	8.41	10.99	8.81
10	11.57	9.10	11.73	9.48	11.87	9.60	11.73	8.42	11.57	8.62	10.94	8.51
11	12.20	9.60	12.13	9.92	12.02	9.27	11.73	8.63	11.57	8.41	11.43	8.22
12	12.47	9.79	11.92	9.62	12.08	9.02	12.22	8.53	11.57	8.68	11.87	8.97
13	13.03	10.41	11.80	9.16	12.36	8.80	12.27	8.25	11.46	8.69	12.23	9.55
14	13.09	10.29	11.75	9.01	12.46	9.10	12.15	8.89	11.28	8.50	11.41	9.22
15	12.16	9.77	11.89	8.94	12.30	8.88	12.30	8.80	11.22	9.13	11.30	9.24
16	12.13	9.63	11.93	8.80	11.95	8.60	11.15	8.44	11.28	9.20	11.49	9.28
17	11.68	8.54	11.61	8.28	12.04	9.13	11.06	8.66	11.08	9.00	11.28	9.09
18	11.00	8.51	11.72	8.57	12.75	9.15	11.07	8.89	10.93	8.91	11.43	8.85
19	11.50	8.85	11.96	9.06	12.00	9.44	11.25	9.14	11.69	8.96	11.78	8.86
20	12.30	9.29	12.14	9.55	11.61	8.81	11.08	9.19	12.40	9.69	11.89	9.19
21	12.06	9.39	12.21	9.63	10.56	8.82	10.97	9.77	11.86	9.68	11.73	9.43
22	12.13	9.56	11.77	9.85	11.25	9.47	11.01	9.17	11.62	9.22	11.20	9.09
23	12.33	9.98	11.60	10.12	12.16	10.01	11.25	8.82	11.18	8.85	11.30	8.00
24	12.20	10.21	11.78	10.17	11.76	9.90	11.91	8.74	11.74	8.35	11.75	8.43
25	12.01	9.82	11.59	9.94	11.45	9.42	11.60	8.92	12.18	8.44	11.91	8.94
26	11.70	9.11	11.59	9.83	11.27	8.98	11.68	8.55	12.27	8.85	11.90	8.90
27	10.68	9.08	11.95	9.41	12.29	8.67	11.95	8.24	12.56	8.90	11.83	8.90
28	10.56	9.03	12.25	9.24	12.70	9.14	11.95	8.31	11.02	8.39	11.57	8.82
29	10.79	9.01	12.28	9.41	12.75	9.67	12.04	8.43	---	---	11.47	8.86
30	11.27	8.83	12.31	9.18	12.42	8.77	11.94	8.48	---	---	11.96	9.25
31	11.74	9.22	---	---	12.10	8.56	11.82	8.78	---	---	12.40	9.46
MONTH	13.09	8.51	12.46	8.28	12.75	8.29	12.58	7.92	12.56	8.24	12.72	7.56

HILLSBOROUGH RIVER BASIN

02306028 HILLSBOROUGH RIVER AT PLATT STREET AT TAMPA, FL--Continued

PERIOD OF RECORD.--January to August 1997 (top and bottom sensors); February 2001 to current year (top, middle, and bottom sensors).
Records prior to 1997 are available in files of the U.S. Geological Survey.

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

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 49,800 microsiemens, May 28, 2001; middle sensor maximum, 49,600 microsiemens, Mar. 9, 2001; bottom sensor maximum, 50,600 microsiemens, June 22, 2001; top sensor minimum, 435 microsiemens, Sept. 14, 2001; middle sensor minimum, 326 microsiemens, Sept. 14, 2001; bottom sensor minimum, 391 microsiemens, Sept. 14, 2001.

TEMPERATURE.--Top sensor maximum, 34.1°C, June 27, 1997; middle sensor maximum, 32.3°C, June 15, 2001; bottom sensor maximum, 32.6°C, July 27, 1997; top sensor minimum, 13.8°C, Jan. 8, 2002; middle sensor minimum, 15.2°C, Jan. 11, 2002; bottom sensor minimum, 15.1°C, Jan. 6, 9, 10, 2002.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 47,300 microsiemens, June 27; middle sensor maximum, 49,100 microsiemens, June 2, 3, 13; bottom sensor maximum, 50,200 microsiemens, Feb. 26; top sensor minimum, 1,820 microsiemens, Oct. 1; middle sensor minimum, 3,080 microsiemens, Sept. 20; bottom sensor minimum, 5,480 microsiemens, Sept. 5.

TEMPERATURE.--Top sensor maximum, 31.5°C, Aug. 6; middle sensor maximum, 31.5°C, Aug. 2; bottom sensor maximum, 31.5°C, July 30; top sensor minimum, 13.8°C, Jan. 8; middle sensor minimum, 15.2°C, Jan. 11; bottom sensor minimum, 15.1°C, Jan. 6, 9, 10.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
(NEAR TOP)

DAY	MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN		MAX MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	27400	1820	39900	29100	41300	31100	43500	32700	42800	32400	45000	34600
2	36700	3100	40200	28300	41800	30300	43600	31600	42800	34800	44300	40200
3	35700	1920	40500	28900	41700	30600	43700	32100	44000	35400	44400	37200
4	36100	5670	41400	27200	41900	29100	43500	28200	44100	33400	43700	29100
5	34400	5480	41900	28100	42100	31200	43600	33000	44400	27200	44700	25500
6	35500	6960	41700	30000	42300	32200	43500	37200	43300	29700	44500	28600
7	33800	6210	41500	28600	42200	33900	43400	34700	42200	33000	43400	27000
8	35700	7460	41600	30700	41700	33300	43400	29800	42800	25800	43800	28700
9	37000	9030	41400	30400	41800	32600	43300	30100	43300	28500	43600	31400
10	37200	10000	41500	33500	41400	32800	43200	---	43600	32800	43900	33900
11	37000	9650	41500	35300	41500	31500	43700	33300	43700	32700	44000	32800
12	36200	15600	41700	34500	41600	31300	43400	33600	43800	34200	43600	35500
13	35600	20900	41900	32400	41400	30900	43500	33000	43900	34300	43800	38400
14	34700	19000	42000	31700	41000	32900	43500	33600	44000	32800	43500	37700
15	36600	15500	42000	31400	41000	32100	43100	28800	44100	34700	43200	36600
16	38200	15200	42000	30500	40900	30700	43300	29000	44200	35200	43500	36700
17	39500	16100	41900	30200	41100	31300	43700	31800	44500	34800	43200	35600
18	38900	17100	41800	31600	41500	30000	44000	33500	44200	34400	42800	33400
19	38500	18600	41700	31300	42000	28800	43300	34200	44200	34100	43300	32900
20	38900	21800	41700	31700	42300	29000	43000	35600	44000	36500	43200	33000
21	38700	23000	41700	31100	42400	28000	42700	34500	43600	36900	43200	33400
22	39000	22700	41400	31600	42300	30100	42500	32100	43800	32700	43100	29900
23	39100	21100	41100	32700	42100	35200	41900	28000	44400	28300	44500	26800
24	37100	22300	40600	33400	42800	34300	42600	30700	44800	28700	43900	32700
25	36200	16900	40700	33800	42900	32000	42000	30800	44900	31500	44200	35100
26	37000	16100	40800	32200	43500	30700	42500	28800	45100	33700	44700	35800
27	39300	19200	40900	31600	43500	32500	42900	29100	44700	35400	45200	36800
28	40300	21700	40000	31100	42800	33900	43800	30800	44800	33800	45400	37500
29	40000	25700	40100	32000	42900	34500	43600	31300	---	---	45400	38400
30	39900	26000	40300	31700	43600	32700	43200	32500	---	---	45400	39900
31	40200	27900	---	---	43400	32900	43000	31800	---	---	44700	38900
MONTH	40300	1820	42000	27200	43600	28000	44000	28000	45100	25800	45400	25500

TAMPA BAY AND COASTAL AREAS

02306500 SWEETWATER CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'35", long 82°30'42" (1927 North American datum), 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	0.18	0.23	0.28	0.80	1.1	e0.82	0.07	0.07	7.8	1.2	9.5
2	1.3	0.15	0.24	1.6	0.53	0.85	e1.0	0.07	0.06	5.0	1.1	7.3
3	1.2	0.18	0.25	1.6	0.37	0.87	1.6	0.07	0.06	2.9	1.2	6.1
4	1.1	0.14	0.21	1.4	0.29	2.0	1.7	0.07	0.05	2.4	1.2	3.1
5	0.95	0.18	0.18	1.2	0.21	1.6	1.0	0.07	0.12	2.2	0.95	9.3
6	0.89	0.22	0.21	1.4	0.12	1.3	0.67	0.07	0.08	2.0	0.79	16
7	0.86	0.12	0.24	1.2	0.35	1.0	0.43	0.07	0.07	1.7	5.7	3.8
8	0.73	0.21	1.6	1.1	0.39	3.4	0.25	0.06	0.07	1.5	9.1	2.7
9	0.66	0.77	0.86	0.97	0.20	0.77	0.14	0.06	0.08	1.5	6.0	2.1
10	0.51	1.4	0.65	0.90	0.15	0.63	0.12	0.06	0.07	1.5	4.0	1.6
11	0.21	0.72	0.54	0.85	0.19	0.43	1.5	0.05	0.06	1.6	2.8	3.3
12	0.43	0.52	0.51	0.75	0.15	e0.45	1.7	0.05	0.05	2.5	2.1	17
13	0.64	0.41	0.69	1.1	0.11	e0.24	1.2	0.05	0.04	18	1.6	11
14	0.77	0.45	0.53	2.4	0.11	e0.15	0.90	0.04	0.02	12	7.3	5.5
15	1.3	0.45	0.48	2.6	0.11	e0.15	0.75	0.03	0.08	5.8	64	4.8
16	0.90	0.42	0.44	1.9	0.11	e0.10	0.63	0.07	0.03	3.2	25	4.2
17	0.68	0.34	0.37	1.6	0.11	e0.10	1.0	0.08	3.7	1.9	7.8	3.9
18	0.54	0.31	0.48	1.3	0.11	e0.07	0.92	0.07	10	1.3	9.5	3.8
19	0.47	0.34	0.44	1.2	0.09	e0.07	0.96	0.29	4.9	3.7	7.8	3.4
20	0.42	0.40	0.39	1.2	0.09	e0.15	0.81	0.09	2.7	13	7.2	3.6
21	0.48	0.41	0.30	1.3	0.09	e0.10	0.59	0.08	1.4	14	4.3	3.1
22	0.61	0.37	0.29	1.2	0.29	e0.08	0.40	0.07	1.1	6.6	3.0	2.6
23	0.56	0.32	0.29	1.0	3.2	e0.07	0.28	0.07	0.80	4.1	2.2	4.9
24	0.53	0.28	0.32	1.8	3.0	e0.07	0.16	0.07	4.9	2.6	1.8	5.4
25	2.3	0.25	0.32	e1.6	2.0	e14	0.12	0.06	6.6	5.5	1.5	5.0
26	1.3	0.23	0.45	e1.4	1.5	e1.3	0.11	0.05	3.7	8.8	1.1	4.6
27	0.63	0.28	0.36	e1.1	1.4	e0.53	0.11	0.04	6.4	3.9	2.2	4.8
28	0.18	0.20	0.33	0.84	1.2	e0.10	0.11	0.05	12	3.2	2.8	4.1
29	0.20	0.20	0.30	0.62	---	e0.08	0.10	0.03	14	3.4	2.9	3.3
30	0.21	0.19	0.28	0.68	---	e0.24	0.08	0.03	10	2.2	8.9	2.8
31	0.19	---	0.30	1.0	---	e0.49	---	0.06	---	1.6	14	---
TOTAL	23.25	10.64	13.08	39.09	17.27	32.49	20.16	2.10	83.21	147.4	211.04	162.6
MEAN	0.75	0.35	0.42	1.26	0.62	1.05	0.67	0.068	2.77	4.75	6.81	5.42
MAX	2.3	1.4	1.6	2.6	3.2	14	1.7	0.29	14	18	64	17
MIN	0.18	0.12	0.18	0.28	0.09	0.07	0.08	0.03	0.02	1.3	0.79	1.6
AC-FT	46	21	26	78	34	64	40	4.2	165	292	419	323

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2002, BY WATER YEAR (WY)

MEAN	6.30	2.43	2.69	3.56	3.84	7.45	4.71	2.18	3.45	6.24	15.0	16.3
MAX	42.3	13.1	56.6	42.4	48.2	79.3	55.8	27.3	40.8	56.7	97.5	83.3
(WY)	1960	1989	1998	1998	1998	1960	1959	1959	1959	1959	1960	1979
MIN	0.006	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.023	0.000	0.000
(WY)	1957	1957	1957	1957	1957	2000	1956	1955	1955	1956	1956	1956

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1952 - 2002

ANNUAL TOTAL	576.87	762.33		
ANNUAL MEAN	1.58	2.09		
HIGHEST ANNUAL MEAN			6.18	
LOWEST ANNUAL MEAN			35.9	1959
HIGHEST DAILY MEAN	71	Sep 15	0.15	1956
LOWEST DAILY MEAN	0.00	Many Days	396	Mar 17 1960
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 27	0.02	Jun 14
MAXIMUM PEAK FLOW			0.05	May 25
MAXIMUM PEAK STAGE			70	Aug 15
ANNUAL RUNOFF (AC-FT)	1140	1510	438	Mar 17 1960
10 PERCENT EXCEEDS	3.5	5.4	9.57	May 18 1979
50 PERCENT EXCEEDS	0.35	0.73		
90 PERCENT EXCEEDS	0.00	0.07		

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" (1927 North American datum), 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 and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929

(Hillsborough County bench mark). Prior to Mar. 25, 1975, nonrecording gage 1,000 ft upstream at datum 10 ft lower; Mar. 25, 1975, to September 1981, nonrecording gage at same site at present datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	1.2	1.3	1.2	1.3	0.83	0.42	0.42	0.42	e74	31	37
2	11	1.2	1.3	1.3	1.3	0.83	0.42	0.42	0.42	e33	31	29
3	9.4	1.2	1.3	1.3	1.2	0.83	0.42	0.42	0.42	e17	35	23
4	9.0	1.2	1.2	1.3	1.3	0.83	0.42	0.42	0.42	e13	33	19
5	8.6	1.2	1.2	1.3	1.2	0.83	0.42	0.42	0.42	e15	36	57
6	7.9	1.2	1.2	1.3	1.3	0.83	0.42	0.42	0.42	e11	33	74
7	7.2	1.2	1.3	1.2	1.3	0.83	0.42	0.42	0.42	e8.7	29	42
8	6.8	1.2	1.3	1.3	1.3	0.83	0.42	0.42	2.0	9.6	e32	30
9	6.3	1.3	1.3	1.2	1.3	0.83	0.42	0.42	0.53	17	e36	23
10	5.7	1.3	1.3	1.2	1.3	0.83	0.42	0.42	0.42	20	e33	20
11	5.3	1.3	1.3	1.2	1.3	0.83	1.6	0.42	0.42	17	e31	36
12	4.6	1.3	1.2	1.2	1.3	0.83	6.1	0.42	0.42	21	e29	76
13	4.1	1.2	1.3	1.2	1.3	0.83	0.60	0.42	0.42	92	e29	66
14	5.8	1.2	1.3	1.5	1.3	0.50	0.42	0.42	0.42	79	e29	39
15	12	1.2	1.3	2.0	1.3	0.42	0.42	0.42	0.42	47	e34	30
16	7.5	1.2	1.3	1.3	1.2	0.42	0.42	0.42	0.42	29	e85	25
17	4.6	1.3	1.3	1.3	1.1	0.42	0.42	0.57	1.5	21	74	23
18	2.9	1.3	1.3	1.2	0.83	0.42	0.42	0.42	48	15	85	21
19	2.4	1.3	1.3	1.3	0.83	0.42	0.42	0.42	13	12	86	27
20	2.0	1.2	1.3	1.2	0.83	0.42	0.42	0.42	0.46	20	98	41
21	1.7	1.2	1.2	1.2	0.83	0.42	0.42	0.42	0.42	46	57	25
22	1.7	1.2	1.3	1.2	0.83	0.42	0.42	0.42	0.42	32	46	22
23	1.3	1.3	1.3	1.3	1.8	0.42	0.42	0.42	0.42	25	36	31
24	1.3	1.3	1.3	1.3	1.0	0.42	0.42	0.42	16	19	32	51
25	1.3	1.3	1.3	1.3	0.83	0.42	0.42	0.42	57	32	29	35
26	1.3	1.3	1.3	1.3	0.83	0.42	0.42	0.42	22	59	27	33
27	1.3	1.3	1.3	1.3	0.83	0.42	0.42	0.42	25	39	22	36
28	1.3	1.3	1.2	1.3	0.83	0.42	0.42	0.42	e41	48	18	29
29	1.2	1.3	1.2	1.3	---	0.42	0.42	0.42	e38	51	14	23
30	1.2	1.3	1.2	1.3	---	0.42	0.42	0.42	e31	42	22	19
31	1.2	---	1.2	1.3	---	0.42	---	0.42	---	36	51	---
TOTAL	149.9	37.5	39.4	40.1	31.87	18.43	19.64	13.17	302.63	1000.3	1263	1042
MEAN	4.84	1.25	1.27	1.29	1.14	0.59	0.65	0.42	10.1	32.3	40.7	34.7
MAX	12	1.3	1.3	2.0	1.8	0.83	6.1	0.57	57	92	98	76
MIN	1.2	1.2	1.2	1.2	0.83	0.42	0.42	0.42	0.42	8.7	14	19
CFSM	0.34	0.09	0.09	0.09	0.08	0.04	0.05	0.03	0.71	2.26	2.85	2.43
IN.	0.39	0.10	0.10	0.10	0.08	0.05	0.05	0.03	0.79	2.60	3.29	2.71
*PREC	2.42	1.10	0.52	2.39	1.88	2.02	5.96	2.41	6.85	10.21	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2002, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	19.5	12.6	18.3	13.4	14.9	16.3	9.33	5.85	13.4	27.4	37.7	45.0					
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	2.24	1.24	0.71	1.26	1.14	0.59	0.38	0.001	1.43	6.52	8.65	7.44					
(WY)	2001	2001	2000	2001	2002	2002	2000	2000	2001	1993	1993	1990					

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1986 - 2002

ANNUAL TOTAL	3425.61	3957.94		
ANNUAL MEAN	9.39	10.8		
HIGHEST ANNUAL MEAN			19.5	
LOWEST ANNUAL MEAN			70.1	1998
HIGHEST DAILY MEAN	285	Sep 15	6.98	2000
LOWEST DAILY MEAN	0.00	Many Days	803	Dec 13 1997
ANNUAL SEVEN-DAY MINIMUM	0.00	May 12	0.00	Many Days
MAXIMUM PEAK FLOW			0.00	May 4 2000
MAXIMUM PEAK STAGE			168	Jul 13
ANNUAL RUNOFF (CFSM)	0.66		930	Dec 13 1997
ANNUAL RUNOFF (INCHES)	8.91		12.01	Jul 13
10 PERCENT EXCEEDS	22		0.76	1.36
50 PERCENT EXCEEDS	1.6		10.30	18.51
90 PERCENT EXCEEDS	0.00		36	51
			1.3	6.5
			0.42	1.1

*PRECIPITATION, TOTAL, INCHES

TAMPA BAY AND COASTAL AREAS

02306654 HENRY STREET CANAL NEAR TAMPA, FL

LOCATION.--Lat 27°59'59", long 82°33'05" (1927 North American datum), in SE¹/₄ 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 except those for estimated daily discharges, which are poor.

REVISIONS.--Revised daily discharges, in cubic feet per second, for periods in September 2001 are given below. These figures supercede those published in the report for 2001.

	Sept. 14....243e	Sept. 15....117e	Sept. 16....17e
September 2001	TOTAL 642.5	MEAN 21.4	MAX 243
Wtr Yr 2001	ANNUAL TOTAL 1875.57	ANNUAL MEAN 5.14	HIGHEST DAILY MEAN 243e Sept. 14 MAXIMUM PEAK FLOW 510 Sept. 14
Wtr Yrs 1986-2001	LOWEST ANNUAL MEAN 5.14 2001		

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	3.4	2.3	0.89	3.6	3.5	1.0	4.1	0.83	70	4.2	9.2
2	4.1	3.3	2.4	9.7	2.7	3.4	1.0	4.2	0.67	47	6.4	16
3	4.0	3.4	2.6	5.7	2.3	5.6	2.9	4.1	0.64	15	6.8	14
4	3.8	3.3	2.4	3.5	2.0	10	10	4.1	0.60	10	4.5	9.4
5	3.8	3.4	2.2	2.9	1.4	4.8	5.4	4.2	0.57	8.5	4.8	61
6	3.6	3.3	2.2	4.1	1.2	3.6	3.4	4.1	0.57	7.7	4.0	30
7	3.7	3.3	2.1	3.3	9.1	3.3	2.8	4.2	0.55	8.8	47	15
8	3.7	3.3	8.8	2.6	7.1	3.2	2.5	4.4	0.48	9.5	17	11
9	3.5	3.2	3.9	2.5	3.8	2.9	1.8	4.4	e0.47	17	8.8	9.6
10	3.4	3.1	2.8	2.3	3.2	2.7	1.7	4.1	e0.45	9.9	6.9	8.3
11	3.3	3.1	2.1	2.1	3.8	2.6	1.8	4.0	e0.43	7.3	5.9	29
12	3.2	3.2	1.8	2.0	3.2	2.3	e5.8	3.9	e0.42	9.6	5.0	63
13	3.2	3.0	1.6	4.2	2.9	3.5	e3.0	4.0	e0.40	20	4.7	28
14	5.9	3.2	1.4	3.6	2.7	3.0	e6.1	4.1	0.39	e19	38	15
15	7.1	3.3	1.3	9.0	2.5	2.4	4.5	4.2	0.40	e12	47	12
16	4.3	3.3	1.3	5.4	2.2	2.0	3.9	4.1	0.47	8.6	21	10
17	3.7	3.0	1.3	4.1	2.0	1.8	4.1	21	23	7.3	28	13
18	3.4	2.8	6.4	3.5	2.1	1.9	3.9	e22	113	6.2	41	11
19	3.2	2.9	3.2	3.1	1.7	1.6	5.8	25	21	5.6	18	10
20	3.0	2.8	1.8	2.7	1.5	1.5	5.3	14	9.4	5.3	14	13
21	3.3	2.8	1.3	2.5	1.5	1.5	4.2	e7.1	6.2	5.1	11	10
22	4.3	2.8	1.2	2.3	7.6	1.4	4.0	1.4	18	6.3	9.6	9.7
23	3.5	2.7	1.3	2.3	42	1.3	3.9	1.3	11	5.1	7.8	7.7
24	3.1	2.7	1.9	2.1	17	1.2	3.9	1.3	7.0	4.4	7.0	7.9
25	12	2.7	2.0	1.8	7.6	1.2	3.8	1.3	e45	61	6.6	7.6
26	5.9	2.7	3.2	1.7	5.7	1.0	3.8	1.3	19	38	12	7.9
27	4.4	2.6	2.0	1.6	4.8	1.0	3.8	1.3	20	11	26	15
28	3.8	2.5	1.5	1.4	4.2	1.2	4.0	1.3	19	13	13	6.9
29	3.6	2.5	1.4	1.1	---	1.2	4.1	1.3	23	7.5	8.9	5.6
30	3.4	2.4	1.1	2.3	---	1.0	4.1	1.2	17	5.5	12	5.4
31	3.3	---	0.96	8.6	---	1.1	---	1.00	---	4.7	15	---
TOTAL	128.8	90.0	71.76	104.89	151.4	78.7	116.3	168.00	359.94	465.9	461.9	471.2
MEAN	4.15	3.00	2.31	3.38	5.41	2.54	3.88	5.42	12.0	15.0	14.9	15.7
MAX	12	3.4	8.8	9.7	42	10	10	25	113	70	47	63
MIN	3.0	2.4	0.96	0.89	1.2	1.0	1.0	1.0	0.39	4.4	4.0	5.4

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2002, BY WATER YEAR (WY)

MEAN	9.31	7.59	8.73	7.35	7.35	8.95	5.82	4.05	11.6	17.0	20.6	22.0
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	1.79	2.55	2.31	1.99	1.67	1.44	1.30	0.59	3.96	5.58	5.76	8.76
(WY)	2001	2001	2002	2001	2001	2000	1999	2000	2001	1999	2001	1990

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1986 - 2002
ANNUAL TOTAL	1955.73	2668.79	
ANNUAL MEAN	5.36	7.31	10.9
HIGHEST ANNUAL MEAN			19.9
LOWEST ANNUAL MEAN			5.14
HIGHEST DAILY MEAN	243	Sep 14	464
LOWEST DAILY MEAN	0.50	May 24	0.39
ANNUAL SEVEN-DAY MINIMUM	0.57	May 22	0.42
MAXIMUM PEAK FLOW			307
MAXIMUM PEAK STAGE			8.86
10 PERCENT EXCEEDS	8.6		16
50 PERCENT EXCEEDS	3.1		3.8
90 PERCENT EXCEEDS	0.74		1.3

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" (1927 North American datum), in NW¼ sec.12, T.28 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on right bank, 20 ft north of bridge on State Highway 587 (Gunn Highway), 0.2 mi east of intersection Sheldon Road and Gunn Highway, 1.2 mi south of Citrus Park, and 9.0 mi upstream from mouth.
DRAINAGE AREA.--17.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Hillsborough County bench mark). Prior to Apr. 2, 1997, at site 120 ft north at same datum; Apr. 2, 1997, to Dec. 17, 1998, at site 120 ft south at same datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	0.70	0.26	e0.55	e0.53	0.74	0.14	0.04	0.04	3.3	0.19	106
2	24	0.71	0.24	e0.73	0.44	0.71	0.16	0.04	0.02	2.5	0.17	64
3	14	0.68	0.24	e1.1	0.39	0.74	0.37	0.03	0.00	1.1	1.1	53
4	8.3	0.62	0.22	e1.5	0.34	1.3	0.61	0.03	0.00	0.55	1.8	46
5	5.8	0.61	0.23	e1.1	0.28	1.1	0.39	0.04	0.02	1.6	0.59	57
6	4.4	0.58	0.21	e0.88	0.22	0.82	0.25	0.04	0.03	1.0	0.14	134
7	3.7	0.52	0.23	e0.47	0.50	0.65	0.22	0.02	0.02	0.24	4.2	116
8	3.3	0.55	0.54	e1.1	0.89	0.65	0.18	0.01	0.27	1.3	25	98
9	2.8	0.49	0.41	e1.4	0.74	0.59	0.14	0.01	0.17	0.99	6.5	75
10	2.3	0.45	0.41	e0.95	0.63	0.53	0.09	0.01	0.11	0.65	2.4	50
11	2.1	0.42	0.42	e0.52	0.65	0.41	0.09	0.00	0.13	0.19	0.79	42
12	2.0	0.39	0.37	e0.88	0.65	0.38	0.18	0.00	0.12	0.95	0.23	53
13	1.8	0.38	0.34	e1.4	0.62	0.70	0.27	0.00	0.09	25	0.13	63
14	1.9	0.48	0.32	e1.7	0.54	0.87	0.18	0.00	0.05	34	0.88	46
15	2.6	0.57	0.35	e2.2	0.61	0.70	0.16	0.00	0.02	8.0	20	37
16	1.9	0.52	0.41	e2.5	0.65	0.56	0.15	0.01	0.00	3.2	21	31
17	1.6	0.45	0.48	e1.8	0.65	0.45	0.19	0.01	0.00	1.4	26	25
18	1.3	0.37	0.64	e0.88	0.62	0.35	0.23	0.01	0.00	0.58	35	20
19	1.2	0.39	0.62	e0.68	0.59	0.32	0.15	0.08	0.00	0.37	48	17
20	1.1	0.41	0.60	e1.1	0.58	0.26	0.12	0.04	0.00	0.25	77	17
21	1.1	0.44	e0.53	e1.5	0.60	0.25	0.12	0.02	0.00	0.50	60	18
22	1.2	0.45	e0.34	e0.83	0.71	0.21	0.10	0.02	0.00	2.9	53	19
23	1.1	0.40	e0.32	e0.57	1.8	0.20	0.09	0.01	0.02	9.2	37	27
24	1.4	0.38	e0.40	e0.47	2.1	0.20	0.06	0.01	0.00	5.4	28	43
25	2.5	0.34	e0.57	e0.78	1.5	0.19	0.06	0.01	0.01	3.2	23	38
26	2.0	0.32	e0.75	e1.0	1.2	0.18	0.05	0.01	0.52	4.1	20	37
27	1.4	0.31	e0.45	e1.5	0.97	0.23	0.03	0.01	0.09	2.6	22	41
28	1.0	0.31	e0.37	e1.1	0.83	0.23	0.02	0.02	1.1	2.6	22	41
29	0.88	0.29	e0.52	e0.57	---	0.18	0.03	0.01	15	5.3	20	39
30	0.80	0.29	e0.73	e0.19	---	0.18	0.04	0.01	4.1	1.0	28	37
31	0.71	---	e0.57	e0.14	---	0.15	---	0.01	---	0.47	69	---
TOTAL	129.19	13.82	13.09	32.09	20.83	15.03	4.87	0.56	21.93	124.44	653.12	1490
MEAN	4.17	0.46	0.42	1.04	0.74	0.48	0.16	0.018	0.73	4.01	21.1	49.7
MAX	29	0.71	0.75	2.5	2.1	1.3	0.61	0.08	15	34	77	134
MIN	0.71	0.29	0.21	0.14	0.22	0.15	0.02	0.00	0.00	0.19	0.13	17
CFSM	0.23	0.03	0.02	0.06	0.04	0.03	0.01	0.00	0.04	0.23	1.18	2.79
IN.	0.27	0.03	0.03	0.07	0.04	0.03	0.01	0.00	0.05	0.26	1.36	3.11

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2002, BY WATER YEAR (WY)

MEAN	14.9	6.91	10.3	9.27	10.6	12.0	6.07	1.11	3.41	8.76	16.7	31.7
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	0.009	0.051	0.16	0.17	0.19	0.060	0.002	0.014	0.004	0.36	0.061	0.52
(WY)	1994	1994	1994	2001	2001	1994	1994	2000	1994	1992	1993	1993

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1986 - 2002

ANNUAL TOTAL	2842.94	2518.97	
ANNUAL MEAN	7.79	6.90	11.0
HIGHEST ANNUAL MEAN			53.3
LOWEST ANNUAL MEAN			2.16
HIGHEST DAILY MEAN	234	Sep 15	336
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	May 16	0.00
MAXIMUM PEAK FLOW			142
MAXIMUM PEAK STAGE			22.58
ANNUAL RUNOFF (CFSM)	0.44	0.39	0.62
ANNUAL RUNOFF (INCHES)	5.94	5.26	8.38
10 PERCENT EXCEEDS	19	25	28
50 PERCENT EXCEEDS	0.31	0.57	2.0
90 PERCENT EXCEEDS	0.00	0.02	0.10

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02306774 ROCKY CREEK AT STATE HIGHWAY 587 NEAR CITRUS PARK, FL--Continued

TEMPERATURE, WATER (DEG. C), PERIOD APRIL TO SEPTEMBER 2002
(NEAR THE SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	25.6	23.2	27.0	23.2	25.4	24.1	26.8	25.5	28.4	26.7
2	---	---	26.0	23.3	29.1	23.8	25.4	24.3	26.3	25.5	29.0	27.8
3	---	---	26.7	23.6	---	---	25.8	24.8	25.9	25.3	29.4	28.2
4	21.9	21.1	26.9	24.2	---	---	25.6	25.0	26.7	25.2	29.5	29.2
5	22.3	19.9	26.8	24.1	28.6	24.8	25.1	24.6	27.0	25.9	29.4	28.7
6	21.5	18.9	27.2	24.7	27.7	24.6	25.8	24.4	27.4	25.9	---	---
7	21.3	18.6	26.9	24.2	28.0	25.1	26.5	24.8	26.8	25.6	28.4	28.4
8	21.7	19.2	26.9	24.2	26.7	24.4	25.8	24.9	26.3	25.0	28.5	27.4
9	22.6	20.2	27.1	23.7	26.6	24.2	25.5	24.8	26.0	24.8	28.8	27.6
10	23.0	21.1	26.7	24.1	26.8	23.8	26.0	24.6	26.2	25.2	28.9	27.7
11	23.2	21.4	---	---	27.1	24.6	26.2	24.9	26.4	25.3	28.7	27.8
12	22.6	21.0	---	---	27.0	24.7	25.6	24.8	26.4	25.4	---	---
13	22.4	21.0	---	---	28.0	25.1	26.6	24.7	26.3	25.3	27.4	27.3
14	23.4	21.3	---	---	27.2	25.4	26.5	25.2	28.3	24.9	27.6	26.9
15	23.7	21.2	---	---	27.6	25.4	27.1	25.8	25.8	24.9	28.3	26.7
16	24.1	21.9	25.8	22.3	---	---	27.2	26.3	27.6	25.2	28.6	27.5
17	24.6	22.5	26.5	23.4	---	---	27.9	26.8	28.5	27.5	28.9	28.0
18	24.7	22.5	26.9	24.1	---	---	28.0	26.8	28.6	26.9	29.1	28.1
19	24.9	22.5	24.6	22.2	---	---	27.1	26.3	28.6	27.2	29.1	28.4
20	24.7	22.5	24.5	21.2	---	---	26.9	26.2	29.6	27.1	---	---
21	25.3	22.5	24.4	20.5	---	---	26.2	25.2	29.0	27.8	---	---
22	25.5	22.5	24.5	20.2	---	---	25.5	24.6	29.2	27.8	29.0	28.7
23	25.2	22.5	24.9	20.5	25.8	24.1	25.4	24.4	29.2	28.0	---	28.6
24	25.5	22.5	25.6	20.9	---	---	25.9	25.2	29.5	29.4	---	---
25	25.5	22.8	24.8	21.3	25.2	24.1	27.6	25.3	29.6	28.5	---	---
26	25.7	23.3	25.4	21.2	26.1	24.5	26.2	25.0	---	---	---	---
27	25.9	23.2	25.0	22.3	26.6	25.1	26.8	25.6	---	---	---	---
28	25.5	22.9	26.6	22.6	26.2	25.1	26.4	25.8	---	---	---	---
29	25.6	22.8	26.1	22.7	25.8	24.5	26.8	25.6	28.5	28.2	---	---
30	26.0	23.2	27.0	23.3	25.5	24.6	26.6	25.4	28.2	27.8	---	---
31	---	---	27.1	23.0	---	---	26.5	25.4	27.6	26.8	---	---
MONTH	---	---	---	---	---	---	28.0	24.1	---	---	---	---

TAMPA BAY AND COASTAL AREAS

02306904 BRUSHY CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°05'03", long 82°31'29" (1927 North American datum), in NE $\frac{1}{4}$ sec.5, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, near center of span on downstream side of bridge on Ehrlich Road, 3.4 mi upstream from mouth, and 6.1 mi northwest of Sulphur Springs.

DRAINAGE AREA.--6.2 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 some years.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.42 ft, Aug. 31; minimum, 4.99 ft, Oct. 13.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.44	6.33	5.98	6.09	6.34	6.39	6.36	6.06	6.04	7.10	---	8.70
2	6.35	6.41	5.98	6.24	6.35	6.40	6.36	6.06	6.03	7.02	---	8.09
3	6.13	6.46	5.98	6.20	6.35	6.45	6.56	6.05	6.04	6.94	---	7.83
4	6.12	6.41	5.98	6.17	6.34	6.61	6.59	6.04	6.06	7.21	---	7.60
5	6.21	6.25	5.98	6.16	6.34	6.50	6.47	6.03	6.07	7.45	---	8.30
6	6.43	6.10	5.98	6.24	6.33	6.47	6.41	6.02	6.07	7.28	---	9.06
7	6.72	6.00	5.99	6.21	6.42	6.44	6.36	6.01	6.06	7.08	---	8.35
8	7.06	5.97	6.18	6.20	6.40	6.43	6.34	6.00	6.08	7.31	---	7.99
9	6.77	5.98	6.05	6.19	6.36	6.43	6.31	6.00	6.07	7.24	---	7.82
10	6.28	6.05	6.04	6.19	6.35	6.43	6.29	5.99	6.07	7.27	---	7.60
11	6.18	6.05	6.03	6.19	6.36	6.41	6.28	5.97	6.07	---	---	7.72
12	6.02	6.04	6.02	6.19	6.35	6.40	6.31	5.95	6.09	---	---	8.43
13	6.08	6.02	6.01	6.28	6.35	6.56	6.33	5.95	6.09	---	---	8.41
14	7.03	6.02	6.00	6.48	6.35	6.45	6.29	5.94	6.10	---	---	7.91
15	7.39	6.02	6.01	6.46	6.35	6.44	6.27	5.93	6.23	---	---	7.68
16	7.34	6.01	6.02	6.38	6.35	6.41	6.29	5.93	6.31	---	---	7.52
17	7.14	6.01	6.02	6.34	6.33	6.39	6.27	5.92	6.46	---	---	7.44
18	6.89	6.01	6.04	6.33	6.33	6.36	6.29	5.91	6.82	---	---	7.33
19	6.95	6.01	6.02	6.33	6.32	6.35	6.24	5.97	6.59	---	---	7.30
20	7.00	6.00	6.02	6.33	6.33	6.35	6.21	5.93	6.49	---	---	7.39
21	6.98	6.00	6.02	6.33	6.32	6.36	6.19	5.93	6.47	---	---	7.27
22	7.14	6.00	6.03	6.33	6.40	6.34	6.17	5.93	6.56	---	---	7.21
23	7.05	6.00	6.03	6.33	6.73	6.33	6.15	5.95	6.61	---	---	7.19
24	6.98	5.99	6.05	6.33	6.59	6.32	6.13	5.96	6.79	---	---	7.50
25	7.04	5.99	6.04	6.32	6.48	6.67	6.12	5.97	7.27	---	---	7.83
26	6.54	5.98	6.06	6.31	6.44	6.76	6.11	5.97	7.22	---	7.04	7.67
27	5.88	5.98	6.06	6.31	6.41	6.56	6.10	6.00	6.95	---	7.43	7.63
28	5.61	5.98	6.06	6.32	6.40	6.46	6.09	6.00	7.28	---	7.27	7.46
29	5.80	5.98	6.08	6.32	---	6.40	6.08	6.01	7.55	---	7.26	7.33
30	5.98	5.98	6.08	6.34	---	6.38	6.07	6.02	7.29	---	8.51	7.25
31	6.19	---	6.08	6.38	---	6.37	---	6.03	---	---	8.93	---
MEAN	6.57	6.07	6.03	6.28	6.38	6.44	6.27	5.98	6.46	---	---	7.76
MAX	7.39	6.46	6.18	6.48	6.73	6.76	6.59	6.06	7.55	---	---	9.06
MIN	5.61	5.97	5.98	6.09	6.32	6.32	6.07	5.91	6.03	---	---	7.19

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" (1927 North American datum), 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 good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	3.4	1.3	1.3	3.4	6.6	1.6	0.12	0.08	55	11	163
2	14	5.4	1.3	2.5	3.0	9.4	1.5	0.11	0.08	35	4.9	94
3	11	3.6	1.3	5.3	2.9	9.7	2.5	0.11	0.08	19	17	77
4	8.5	4.6	1.3	5.9	4.3	17	11	0.11	0.07	31	24	67
5	8.0	2.4	1.2	5.2	3.0	14	7.6	0.11	0.08	77	7.9	83
6	7.5	2.6	1.2	5.0	2.3	9.9	7.1	0.10	0.09	64	5.0	165
7	7.2	4.2	1.2	4.0	2.5	5.0	6.2	0.10	0.08	34	26	114
8	6.8	2.4	2.4	6.1	3.6	8.5	2.5	0.09	0.12	37	99	87
9	6.5	2.0	2.1	5.9	6.0	9.0	1.9	0.08	0.08	31	39	73
10	6.3	1.9	1.5	4.9	5.3	6.9	1.5	0.08	0.06	30	10	59
11	6.0	1.8	1.3	3.2	2.9	4.0	1.4	0.07	0.05	11	8.8	60
12	5.7	1.8	1.3	5.1	5.3	3.2	2.2	0.07	0.05	38	3.4	87
13	5.4	1.7	1.2	4.6	5.0	3.8	3.9	0.07	0.05	125	2.6	111
14	5.1	1.9	1.1	8.6	2.7	4.6	7.5	0.07	0.05	123	4.5	78
15	7.9	1.9	0.99	17	2.5	3.7	4.7	0.06	0.07	59	125	65
16	6.0	1.8	0.97	7.6	2.5	3.3	1.8	0.07	0.06	37	70	57
17	5.0	1.6	0.95	9.1	4.6	2.9	4.4	0.08	0.11	20	35	50
18	4.8	1.6	1.0	9.0	6.1	2.5	1.8	0.07	3.7	5.9	56	37
19	4.5	1.6	1.1	4.3	6.8	2.0	1.1	0.11	50	11	118	35
20	4.3	1.6	0.99	6.5	3.2	1.9	2.8	0.11	18	12	171	36
21	4.0	1.6	0.92	6.6	7.5	1.8	3.4	0.09	4.9	21	96	29
22	3.6	1.5	0.87	3.4	6.7	1.7	0.66	0.08	7.2	34	72	31
23	3.2	1.5	0.85	3.2	23	1.3	0.43	0.08	19	33	55	42
24	3.4	1.4	0.93	3.0	38	1.2	0.35	0.08	37	13	42	51
25	7.6	1.4	2.0	2.9	21	1.1	0.26	0.07	76	12	31	67
26	7.3	1.3	3.1	2.8	14	28	0.22	0.08	102	67	22	67
27	7.0	1.3	1.3	5.5	11	7.1	0.19	0.09	45	34	37	66
28	5.1	1.3	1.2	4.0	10	4.4	0.15	0.09	51	69	39	50
29	3.0	1.3	1.6	2.6	---	3.1	0.14	0.08	128	72	30	46
30	3.3	1.3	1.6	2.6	---	2.3	0.13	0.09	70	27	76	39
31	6.1	---	1.4	3.9	---	1.9	---	0.09	---	21	150	---
TOTAL	195.1	63.7	41.47	161.6	209.1	181.8	80.93	2.71	613.06	1257.9	1488.1	2086
MEAN	6.29	2.12	1.34	5.21	7.47	5.86	2.70	0.087	20.4	40.6	48.0	69.5
MAX	14	5.4	3.1	17	38	28	11	0.12	128	125	171	165
MIN	3.0	1.3	0.85	1.3	2.3	1.1	0.13	0.06	0.05	5.9	2.6	29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002			
MEAN	15.2	9.25	20.3	15.5	19.0	12.6	5.42	2.25	13.6	26.7	30.9	41.9
MAX	41.6	56.7	152	82.5	125	78.8	13.2	5.48	23.2	45.9	48.0	76.4
(WY)	1996	1998	1998	1998	1998	1998	1998	1997	1995	2001	2002	1998
MIN	1.93	1.06	1.08	1.16	0.72	0.46	0.091	0.028	1.24	8.29	13.8	14.7
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	1998	1996	1996	1996

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1994 - 2002	
ANNUAL TOTAL	5430.94		6381.47			
ANNUAL MEAN	14.9		17.5		17.7	
HIGHEST ANNUAL MEAN					56.3 1998	
LOWEST ANNUAL MEAN					8.66 1999	
HIGHEST DAILY MEAN	358	Sep 15	171	Aug 20	542	Dec 27 1997
LOWEST DAILY MEAN	0.04	May 30	0.05	Jun 11	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.05	May 24	0.06	Jun 10	0.00	May 26 2000
MAXIMUM PEAK FLOW			214	Aug 20	775	Dec 27 1997
MAXIMUM PEAK STAGE			7.10	Jul 13	12.92	Dec 27 1997
10 PERCENT EXCEEDS	52		62		47	
50 PERCENT EXCEEDS	1.6		4.3		5.4	
90 PERCENT EXCEEDS	0.08		0.09		0.39	

TAMPA BAY AND COASTAL AREAS

02306950 BRUSHY CREEK NEAR CITRUS PARK, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.96	2.58	2.39	2.41	2.57	2.75	2.49	2.26	2.24	4.78	3.97	6.16
2	3.05	2.71	2.39	2.51	2.54	2.88	2.48	2.26	2.24	4.45	3.73	4.99
3	2.96	2.60	2.39	2.69	2.53	2.89	2.56	2.26	2.23	4.10	4.16	4.66
4	2.87	2.66	2.39	2.71	2.62	3.12	3.00	2.26	2.23	4.32	4.34	4.45
5	2.85	2.51	2.38	2.67	2.54	3.04	2.87	2.25	2.24	5.21	3.85	4.70
6	2.83	2.52	2.38	2.66	2.48	2.90	2.85	2.25	2.24	4.95	3.75	6.14
7	2.81	2.64	2.38	2.60	2.50	2.70	2.79	2.25	2.23	4.42	4.20	5.30
8	2.80	2.51	2.55	2.72	2.58	2.86	2.57	2.24	2.26	4.48	5.70	4.79
9	2.79	2.47	2.55	2.71	2.71	2.88	2.52	2.24	2.23	4.38	4.61	4.52
10	2.77	2.46	2.49	2.65	2.67	2.78	2.48	2.24	2.22	4.33	3.98	4.20
11	2.75	2.45	2.47	2.55	2.53	2.64	2.47	2.23	2.22	3.92	3.93	4.21
12	2.74	2.45	2.46	2.66	2.68	2.59	2.55	2.23	2.22	4.49	3.62	4.74
13	2.72	2.44	2.45	2.65	2.65	2.63	2.67	2.23	2.22	6.01	3.58	5.19
14	2.71	2.46	2.44	2.83	2.51	2.69	2.87	2.23	2.22	6.00	3.68	4.56
15	2.83	2.46	2.43	3.09	2.50	2.64	2.71	2.22	2.23	4.86	6.10	4.28
16	2.75	2.45	2.42	2.79	2.50	2.61	2.51	2.23	2.22	4.50	5.15	4.09
17	2.70	2.43	2.42	2.85	2.62	2.58	2.78	2.23	2.25	4.18	4.52	3.97
18	2.68	2.43	2.43	2.84	2.71	2.55	2.58	2.23	2.43	3.73	4.68	3.76
19	2.66	2.43	2.44	2.62	2.75	2.51	2.50	2.26	3.88	3.94	5.64	3.72
20	2.64	2.43	2.42	2.74	2.55	2.50	2.66	2.25	3.30	3.96	6.33	3.73
21	2.63	2.43	2.41	2.74	2.79	2.49	2.69	2.24	2.97	4.22	5.09	3.60
22	2.60	2.42	2.40	2.57	2.75	2.48	2.42	2.23	3.16	4.47	4.63	3.62
23	2.58	2.42	2.40	2.56	3.18	2.45	2.37	2.23	3.63	4.47	4.31	3.82
24	2.59	2.41	2.41	2.54	3.50	2.43	2.35	2.23	4.08	4.03	4.09	3.94
25	2.79	2.41	2.51	2.53	3.18	2.42	2.32	2.23	4.86	3.99	3.90	4.22
26	2.80	2.40	2.61	2.52	3.02	3.32	2.31	2.23	5.43	5.07	3.72	4.21
27	2.78	2.40	2.44	2.69	2.94	2.85	2.30	2.24	4.46	4.49	3.99	4.17
28	2.69	2.40	2.41	2.60	2.90	2.71	2.28	2.24	4.65	5.11	4.01	3.87
29	2.56	2.39	2.45	2.51	---	2.62	2.27	2.24	6.08	5.18	3.85	3.78
30	2.57	2.39	2.45	2.51	---	2.56	2.27	2.24	5.07	4.37	4.65	3.67
31	2.74	---	2.42	2.60	---	2.52	---	2.24	---	4.27	5.97	---
MEAN	2.75	2.47	2.44	2.66	2.71	2.70	2.55	2.24	3.06	4.54	4.44	4.37
MAX	3.05	2.71	2.61	3.09	3.50	3.32	3.00	2.26	6.08	6.01	6.33	6.16
MIN	2.56	2.39	2.38	2.41	2.48	2.42	2.27	2.22	2.22	3.73	3.58	3.60

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307000 ROCKY CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'12", long 82°34'34" (1927 North American datum), in NW¼ sec.23, T.28 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on right bank, 75 ft upstream from concrete control, 2.8 mi downstream from Brushy Creek, 5.8 mi upstream from mouth, and 7.4 mi west of intersection Interstate 75 and Busch Boulevard at Sulphur Springs.

DRAINAGE AREA.--35 mi², approximately.

PERIOD OF RECORD.--January 1953 to current year.

REVISED RECORDS.--WSP 1905: 1953-65(P).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Mar. 23, 1971, at site 1,500 ft upstream at datum 0.15 ft lower.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	4.3	2.0	3.2	2.8	e4.6	1.7	1.2	0.86	33	38	259
2	42	4.3	2.2	6.5	2.6	e3.9	1.6	1.1	0.72	24	26	167
3	33	4.2	2.3	8.3	2.4	e3.5	2.0	1.1	0.61	16	37	117
4	21	4.8	1.7	7.2	3.4	e4.3	6.8	1.5	0.76	13	48	98
5	18	2.7	1.5	7.6	e3.3	e7.5	8.2	1.7	1.4	44	35	166
6	15	2.7	1.8	6.3	e1.9	e6.9	6.0	1.5	3.4	42	25	301
7	13	4.7	2.8	6.0	e2.3	e6.3	6.9	1.5	2.3	20	39	224
8	12	4.3	4.3	8.9	e1.9	e5.4	3.1	0.90	9.5	17	128	174
9	12	2.6	3.4	7.9	e4.3	e4.2	2.4	0.81	4.4	18	72	136
10	10	2.1	2.9	4.9	e3.4	e4.1	2.2	0.57	2.9	18	40	91
11	8.9	1.9	2.6	5.9	e3.2	e4.3	5.0	0.62	2.6	19	29	81
12	8.0	1.8	2.6	5.5	e3.2	e4.2	7.3	0.40	2.8	31	22	113
13	5.8	1.6	2.5	9.5	e3.3	e3.9	4.5	0.34	2.6	119	18	158
14	7.3	1.7	2.5	18	e2.9	e4.3	7.7	0.30	2.3	179	25	108
15	15	1.4	2.3	15	e2.9	e4.4	8.4	0.32	2.5	90	128	81
16	16	1.2	1.8	10	e2.9	e4.2	3.8	1.1	2.2	56	116	66
17	10	1.3	0.71	13	e3.3	e4.1	6.1	2.5	6.2	42	80	56
18	5.7	1.2	1.9	9.2	e3.3	e4.0	6.2	0.57	9.6	25	98	47
19	4.3	0.54	2.0	7.0	e3.3	e3.9	3.8	2.1	15	23	142	38
20	3.5	1.0	2.0	8.9	e3.3	e3.6	3.8	1.4	17	30	235	36
21	3.1	1.2	2.0	5.1	e3.9	e3.9	7.1	0.60	10	39	172	33
22	3.6	1.4	2.0	3.7	e4.5	e9.9	3.3	0.20	9.4	53	132	32
23	3.1	1.5	2.3	3.8	e8.1	e13	2.3	0.37	9.2	65	100	40
24	2.7	1.5	2.5	3.8	e16	e20	2.0	0.69	12	48	73	74
25	7.7	1.2	4.6	3.9	e18	e16	1.8	0.76	18	46	63	72
26	8.6	1.2	3.4	4.1	e10	11	1.6	0.74	41	81	48	70
27	8.6	1.3	2.2	6.9	e6.7	8.9	1.2	0.76	17	63	55	74
28	6.1	1.5	2.0	3.7	e5.5	4.2	1.2	0.93	11	69	57	64
29	4.3	1.7	2.4	3.5	---	2.9	1.3	0.94	61	105	50	55
30	3.5	2.0	2.1	4.4	---	2.6	1.4	0.95	36	56	67	52
31	5.5	---	2.0	3.4	---	2.0	---	0.76	---	45	193	---
TOTAL	359.3	64.84	73.31	215.1	132.6	186.0	120.7	29.23	314.25	1529	2391	3083
MEAN	11.6	2.16	2.36	6.94	4.74	6.00	4.02	0.94	10.5	49.3	77.1	103
MAX	42	4.8	4.6	18	18	20	8.4	2.5	61	179	235	301
MIN	2.7	0.54	0.71	3.2	1.9	2.0	1.2	0.20	0.61	13	18	32
CFSM	0.33	0.06	0.07	0.20	0.14	0.17	0.11	0.03	0.30	1.41	2.20	2.94
IN.	0.38	0.07	0.08	0.23	0.14	0.20	0.13	0.03	0.33	1.63	2.54	3.28

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002, BY WATER YEAR (WY)

MEAN	36.7	16.3	20.9	23.0	28.0	40.8	21.1	13.5	22.5	43.9	85.3	94.3
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	1.13	2.35	2.48	0.70	0.27	0.46	0.21	1.86	4.33	8.31
(WY)	1971	1979	2001	1957	1957	2000	1967	2001	2000	1955	1993	1972

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1954 - 2002

ANNUAL TOTAL	6322.71	8498.33	
ANNUAL MEAN	17.3	23.3	37.2
HIGHEST ANNUAL MEAN			119
LOWEST ANNUAL MEAN			4.73
HIGHEST DAILY MEAN	183	Sep 15	301
LOWEST DAILY MEAN	0.00	Many Days	0.20
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 27	0.48
MAXIMUM PEAK FLOW			422
MAXIMUM PEAK STAGE			6.97
ANNUAL RUNOFF (CFSM)	0.49		0.67
ANNUAL RUNOFF (INCHES)	6.72		9.03
10 PERCENT EXCEEDS	57		71
50 PERCENT EXCEEDS	3.4		4.5
90 PERCENT EXCEEDS	0.74		1.2
			2.2

TAMPA BAY AND COASTAL AREAS

02307032 DOUBLE BRANCH AT COUNTRY WAY BOULEVARD NEAR OLDSMAR, FL

LOCATION.--Lat 28°03'02", long 82°37'37" (1927 North American datum), in NW¹/₄ sec.17, T.28 S., R.17E., Hillsborough County, Hydrologic Unit 03100206, on right bank, on downstream side of culvert, on Countryway Boulevard, and 2.5 mi northeast of Oldsmar.

DRAINAGE AREA.--0.90 mi².

PERIOD OF RECORD.--May 2001 to current year (gage heights only).

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.23 ft, Sept. 5, 2002; minimum, 4.16 ft, May 9-12, 14, 16, 2002.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 11.23 ft, Sept. 5; minimum, 4.16 ft, May 9-12, 14, 16.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.61	4.47	4.48	4.88	4.45	4.54	4.28	4.20	4.19	7.09	5.48	8.74
2	4.55	4.47	4.40	4.96	4.43	4.52	4.27	4.20	4.19	8.04	5.47	7.50
3	4.49	4.53	4.48	5.09	4.41	4.53	4.70	4.20	4.19	6.39	6.44	6.79
4	4.45	4.56	4.42	5.05	4.40	4.76	5.13	4.20	4.19	5.89	6.27	6.31
5	4.43	4.56	4.42	5.01	4.38	4.64	4.82	4.19	4.64	6.01	5.67	7.79
6	4.42	4.53	4.41	5.02	4.37	4.58	4.62	4.19	5.40	6.04	5.39	11.07
7	4.43	4.46	4.51	5.10	4.47	4.55	4.51	4.18	5.19	5.91	6.52	---
8	4.40	4.44	4.61	5.06	4.54	4.53	4.44	4.18	5.09	6.55	7.15	---
9	4.38	4.54	4.58	4.85	4.49	4.49	4.38	4.18	4.95	6.19	6.05	---
10	4.38	4.58	4.58	4.53	4.50	4.47	4.34	4.17	4.69	6.10	5.62	---
11	4.36	4.69	4.55	4.49	4.55	4.44	4.35	4.17	4.52	5.75	5.33	6.80
12	4.37	4.59	4.56	4.47	4.51	4.43	4.84	4.17	4.43	6.91	5.14	7.48
13	4.36	4.32	4.59	4.55	4.48	4.59	4.70	4.18	4.37	8.03	5.61	7.81
14	5.20	4.32	4.56	5.02	4.47	4.56	4.55	4.17	4.36	7.46	6.42	7.20
15	5.36	4.33	4.68	5.24	4.45	4.53	4.49	4.16	4.47	6.52	8.69	6.74
16	5.05	4.31	4.52	5.03	4.44	4.49	4.42	4.17	4.44	6.04	7.31	6.30
17	4.83	4.36	4.61	4.84	4.43	4.46	4.40	4.19	4.55	5.76	6.64	6.06
18	4.66	4.45	4.65	4.71	4.39	4.43	4.40	4.20	5.49	5.55	6.61	5.87
19	4.60	4.29	4.64	4.64	4.37	4.41	4.37	4.27	5.14	5.51	6.72	5.69
20	4.59	4.28	4.59	4.58	4.36	4.39	4.33	4.27	4.87	5.29	6.73	5.56
21	4.61	4.33	4.62	4.55	4.35	4.39	4.30	4.21	4.74	5.09	6.22	5.48
22	4.60	4.29	4.60	4.52	4.49	4.37	4.27	4.20	5.56	6.87	6.33	5.43
23	4.64	4.29	4.54	4.50	5.39	4.35	4.26	4.19	5.39	8.29	5.93	5.55
24	4.70	4.30	4.61	4.48	5.40	4.32	4.25	4.18	5.36	6.84	5.63	6.12
25	4.79	4.34	4.65	4.47	5.11	4.31	4.24	4.18	6.38	6.63	5.41	6.93
26	4.71	4.63	4.63	4.47	4.88	4.31	4.24	4.19	7.36	7.68	5.23	7.08
27	4.57	4.32	4.62	4.47	4.71	4.44	4.23	4.20	5.77	6.59	6.51	6.69
28	4.51	4.29	4.60	4.48	4.59	4.30	4.22	4.24	5.63	6.33	6.37	6.26
29	4.52	4.32	4.71	4.48	---	4.71	4.21	4.22	6.11	6.53	5.98	5.98
30	4.51	4.40	4.86	4.46	---	4.43	4.21	4.21	6.25	6.21	6.41	5.81
31	4.48	---	4.89	4.47	---	4.29	---	4.20	---	5.82	8.11	---
MEAN	4.60	4.42	4.59	4.72	4.56	4.47	4.43	4.20	5.06	6.45	6.24	---
MAX	5.36	4.69	4.89	5.24	5.40	4.76	5.13	4.27	7.36	8.29	8.69	---
MIN	4.36	4.28	4.40	4.46	4.35	4.29	4.21	4.16	4.19	5.09	5.14	---
*PREC	2.69	0.00	---	2.73	2.46	3.01	2.61	---	11.59	12.21	14.53	10.77

*PRECIPITATION, TOTAL, INCHES

TAMPA BAY AND COASTAL AREAS

02307200 BROOKER CREEK AT VAN DYKE ROAD NEAR CITRUS PARK, FL

LOCATION.--Lat 28°07'34", long 82°34'14" (1927 North American datum), in NE¹/₄ 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 except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18
2	4.6	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19
3	3.8	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18
4	3.3	0.10	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	16
5	2.9	0.08	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	21
6	2.6	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	36
7	2.4	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	31
8	2.1	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	26
9	1.9	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	22
10	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	19
11	1.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	17
12	1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.22	18
13	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0	0.17	18
14	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.50	17
15	1.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	3.1	15
16	1.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	2.7	14
17	1.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.26	2.1	12
18	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	1.9	11
19	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	5.2	11
20	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	8.3	16
21	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	5.5	14
22	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	4.1	12
23	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	3.3	11
24	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	2.9	11
25	0.59	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.06	2.6	12
26	0.58	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.05	2.3	13
27	0.49	0.00	0.00	0.00	0.01	e0.00	0.00	0.00	0.00	0.02	3.8	12
28	0.36	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.01	4.5	10
29	0.27	0.00	0.00	0.00	---	e0.00	0.00	0.00	0.00	0.00	3.7	9.0
30	0.22	0.00	0.00	0.00	---	e0.00	0.00	0.00	0.00	0.00	4.2	8.1
31	0.19	---	0.00	0.00	---	e0.00	---	0.00	---	0.00	9.7	---
TOTAL	45.66	0.70	0.00	0.01	0.03	0.03	0.00	0.00	0.00	4.15	72.67	487.1
MEAN	1.47	0.023	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.13	2.34	16.2
MAX	5.4	0.16	0.00	0.01	0.01	0.01	0.00	0.00	0.00	1.0	9.7	36
MIN	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.1
AC-FT	91	1.4	0.00	0.02	0.06	0.06	0.00	0.00	0.00	8.2	144	966

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	3.56	1.60	2.75	2.90	3.17	4.15	2.27	0.24	1.12	2.59	5.27	10.0										
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000										
(WY)	1985	1985	1985	1985	1985	1985	1985	1985	1985	1985	1988	1992										

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1982 - 2002	
ANNUAL TOTAL	706.22		610.35			
ANNUAL MEAN	1.93		1.67		3.30	
HIGHEST ANNUAL MEAN					11.7 1998	
LOWEST ANNUAL MEAN					0.30 1992	
HIGHEST DAILY MEAN	43	Sep 15	36	Sep 6	200	Sep 9 1988
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Nov 10	0.00	Nov 26 1981
MAXIMUM PEAK FLOW			37		208 Sep 5 1988	
MAXIMUM PEAK STAGE			19.63		21.53 Sep 9 1988	
ANNUAL RUNOFF (AC-FT)	1400		1210		2390	
10 PERCENT EXCEEDS	6.9		4.5		10	
50 PERCENT EXCEEDS	0.00		0.00		0.29	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307359 BROOKER CREEK NEAR TARPON SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JAN													
24...	1121	7.81	.55	160	2.8	7.0	477	20.3	47.0	6.20	2.90	32.0	73.0
JUL													
15...	0951	10.56	57	400	2.2	5.8	183	25.8	19.0	2.40	2.80	14.0	28.0
29...	1200	9.68	25	400	2.4	6.0	178	25.9	20.0	2.40	2.50	13.0	27.0
AUG													
14...	1118	8.72	7.0	400	2.1	6.2	200	25.1	21.0	2.70	2.90	16.0	33.0
SEP													
03...	1145	9.20	16	320	2.1	6.3	190	26.3	19.0	2.60	3.00	14.0	29.0
18...	1216	9.15	15	480	2.1	6.0	168	26.5	19.0	2.50	2.80	12.0	24.0

Date	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
JAN											
24...	<.1	9.20	50.0	339	1.7	.03	<.020	<.01	.020	.05	140
JUL											
15...	.2	7.60	9.40	197	2.0	.10	<.020	.02	.040	.04	62.0
29...	.2	8.60	4.30	202	1.7	.06	<.020	.02	.040	.05	65.0
AUG											
14...	.2	11.0	2.40	209	2.1	.04	<.020	.02	.050	.06	70.0
SEP											
03...	.2	9.60	1.90	180	2.2	.02	<.020	.01	.040	.06	67.0
18...	.2	9.80	1.90	202	1.6	.03	<.020	.01	.050	.08	65.0

Remark codes used in this report:

< -- Less than

TAMPA BAY AND COASTAL AREAS

02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL

LOCATION.--Lat 27°58'30", long 82°43'39" (1927 North American datum), in SW¹/₄ sec.8, T.29 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on right bank, 700 ft east of U. S. Highway 19, 1.0 mi north of State Highway 60, 1.8 mi upstream from mouth, and 5.3 mi east of City Hall in Clearwater.
DRAINAGE AREA.--6.17 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1982 to September 1987; October 1995 to September 1996; July 1999 to current year.
GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 6.88 ft above National Geodetic Vertical Datum of 1929.
REMARKS.--Records fair except those for estimated daily discharges, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	3.7	6.3
2	---	---	---	---	---	---	---	---	---	---	3.5	5.7
3	---	---	---	---	---	---	---	---	---	---	8.9	5.0
4	---	---	---	---	---	---	---	---	---	---	4.8	4.5
5	---	---	---	---	---	---	---	---	---	---	14	4.5
6	---	---	---	---	---	---	---	---	---	---	25	7.5
7	---	---	---	---	---	---	---	---	---	---	15	46
8	---	---	---	---	---	---	---	---	---	---	9.5	34
9	---	---	---	---	---	---	---	---	---	---	7.1	18
10	---	---	---	---	---	---	---	---	---	---	5.9	13
11	---	---	---	---	---	---	---	---	---	---	5.5	12
12	---	---	---	---	---	---	---	---	---	---	36	13
13	---	---	---	---	---	---	---	---	---	---	17	9.2
14	---	---	---	---	---	---	---	---	---	---	e13	8.0
15	---	---	---	---	---	---	---	---	---	---	e9.5	7.1
16	---	---	---	---	---	---	---	---	---	---	e7.0	6.3
17	---	---	---	---	---	---	---	---	---	---	e8.0	5.4
18	---	---	---	---	---	---	---	---	---	---	e20	5.6
19	---	---	---	---	---	---	---	---	---	---	e16	7.3
20	---	---	---	---	---	---	---	---	---	---	11	35
21	---	---	---	---	---	---	---	---	---	---	20	27
22	---	---	---	---	---	---	---	---	---	---	93	14
23	---	---	---	---	---	---	---	---	---	12	107	10
24	---	---	---	---	---	---	---	---	---	10	41	8.1
25	---	---	---	---	---	---	---	---	---	9.1	21	7.4
26	---	---	---	---	---	---	---	---	---	7.7	15	e9.0
27	---	---	---	---	---	---	---	---	---	6.6	23	11
28	---	---	---	---	---	---	---	---	---	5.6	17	10
29	---	---	---	---	---	---	---	---	---	4.9	11	9.8
30	---	---	---	---	---	---	---	---	---	4.4	8.7	8.0
31	---	---	---	---	---	---	---	---	---	4.1	7.4	---
TOTAL	---	---	---	---	---	---	---	---	---	---	604.5	367.7
MEAN	---	---	---	---	---	---	---	---	---	---	19.5	12.3
MAX	---	---	---	---	---	---	---	---	---	---	107	46
MIN	---	---	---	---	---	---	---	---	---	---	3.5	4.5
AC-FT	---	---	---	---	---	---	---	---	---	---	1200	729
CFSM	---	---	---	---	---	---	---	---	---	---	3.16	1.99
IN.	---	---	---	---	---	---	---	---	---	---	3.64	2.22

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1999, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	11.4	4.63	5.49	7.93	11.4	15.4	8.04	4.92	11.0	19.6	22.1	18.9						
MAX	17.3	7.80	14.7	12.5	24.6	37.0	13.9	9.11	20.7	40.5	31.4	36.7						
(WY)	1996	1984	1984	1984	1983	1987	1987	1996	1982	1987	1982	1985						
MIN	7.29	2.35	1.95	3.59	4.01	4.09	3.07	0.18	7.42	6.98	10.5	5.81						
(WY)	1987	1985	1985	1985	1987	1985	1985	1985	1996	1996	1996	1996						

SUMMARY STATISTICS

WATER YEARS 1982 - 1999

ANNUAL MEAN	11.8
HIGHEST ANNUAL MEAN	15.0
LOWEST ANNUAL MEAN	9.02
HIGHEST DAILY MEAN	272
LOWEST DAILY MEAN	0.04
ANNUAL SEVEN-DAY MINIMUM	0.06
MAXIMUM PEAK FLOW	536
MAXIMUM PEAK STAGE	12.27
ANNUAL RUNOFF (AC-FT)	8570
ANNUAL RUNOFF (CFSM)	1.92
ANNUAL RUNOFF (INCHES)	26.04
10 PERCENT EXCEEDS	27
50 PERCENT EXCEEDS	6.2
90 PERCENT EXCEEDS	2.0

TAMPA BAY AND COASTAL AREAS

02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 1999.

WATER-QUALITY DATA, PERIOD AUGUST TO SEPTEMBER 1999

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
AUG 18...	1220	1.89	6.0	5.0	7.7	435	27.5	1.2	2	.65	.16	.46	.09
SEP 08...	1015	2.96	34	5.7	8.3	311	27.1	2.7	3	.83	.16	.22	.09

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
AUG 18...	.12
SEP 08...	.13

TAMPA BAY AND COASTAL AREAS

02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	2.5	1.6	1.2	3.5	1.6	0.91	0.05	0.02	11	18	3.6
2	6.3	11	1.5	1.2	2.1	1.7	0.70	0.03	0.02	4.3	52	2.2
3	6.9	4.4	1.1	1.2	1.8	1.8	0.55	0.03	0.02	2.2	21	1.6
4	7.9	3.5	1.1	1.2	1.6	2.0	0.54	0.03	0.02	1.4	15	1.3
5	17	3.0	1.1	1.3	1.5	1.9	0.56	0.03	0.02	2.1	12	5.0
6	11	2.7	1.1	1.7	1.4	1.5	0.61	0.03	0.02	e4.0	9.3	4.5
7	8.0	2.5	1.1	2.6	1.3	1.2	0.61	0.03	0.02	e7.7	7.7	18
8	6.8	2.4	1.0	2.0	1.3	1.1	0.67	0.03	0.02	e13	6.8	19
9	5.8	2.3	0.98	1.8	1.3	0.99	0.58	0.03	0.02	6.7	13	23
10	5.1	2.2	0.97	2.5	1.4	1.0	0.52	0.03	0.02	3.0	9.7	29
11	4.5	2.2	1.0	2.9	1.6	1.0	0.48	0.03	0.02	1.3	7.4	16
12	5.5	2.1	1.0	2.1	1.7	1.1	0.46	0.02	0.44	0.80	18	9.2
13	4.6	2.0	1.1	1.8	1.7	1.2	0.46	0.02	0.04	0.63	37	6.1
14	3.7	1.9	1.6	1.8	2.9	1.3	2.0	0.02	0.03	3.1	14	4.9
15	3.3	1.9	1.2	1.7	3.5	1.3	1.5	0.02	0.03	125	21	4.0
16	3.2	2.0	1.1	1.7	2.3	1.3	0.89	0.02	0.03	70	10	9.3
17	3.4	1.9	1.2	1.7	2.1	1.6	0.68	0.02	1.7	17	7.3	117
18	3.0	1.9	4.6	1.7	2.1	1.5	0.53	0.02	8.5	12	5.7	46
19	2.9	1.9	3.2	1.8	2.1	1.4	0.37	0.02	1.6	46	4.5	22
20	2.8	1.9	2.0	1.9	2.2	1.3	0.26	0.02	1.4	15	3.8	28
21	6.0	1.9	1.6	1.8	2.2	1.1	0.20	0.02	1.2	8.9	3.2	24
22	3.8	1.8	1.6	1.8	2.1	1.1	0.16	0.02	0.96	7.2	3.2	14
23	2.9	1.8	1.5	1.8	1.9	1.0	0.13	0.02	0.67	12	3.0	11
24	2.5	2.0	1.4	5.4	1.8	1.00	0.10	0.02	0.68	67	2.4	9.5
25	2.3	2.3	1.3	2.3	1.7	0.92	0.15	0.02	2.3	43	2.1	8.1
26	2.2	e2.0	e1.1	1.6	1.6	0.91	0.10	0.02	14	18	2.0	6.8
27	2.2	e1.8	e1.2	1.4	1.6	1.6	0.09	0.02	e6.0	12	1.8	8.2
28	2.2	1.6	1.4	1.3	1.6	1.6	0.06	0.02	e4.0	10	1.6	9.3
29	2.2	1.6	1.3	1.6	1.6	0.92	0.06	0.02	12	9.8	1.6	6.2
30	2.1	1.6	1.2	1.6	---	0.68	0.06	0.02	7.0	9.1	1.5	5.2
31	2.1	---	1.3	5.7	---	1.2	---	0.02	---	12	1.4	---
TOTAL	149.1	74.6	44.45	62.1	55.5	39.82	14.99	0.75	62.80	555.23	317.0	472.0
MEAN	4.81	2.49	1.43	2.00	1.91	1.28	0.50	0.024	2.09	17.9	10.2	15.7
MAX	17	11	4.6	5.7	3.5	2.0	2.0	0.05	14	125	52	117
MIN	2.1	1.6	0.97	1.2	1.3	0.68	0.06	0.02	0.02	0.63	1.4	1.3
AC-FT	296	148	88	123	110	79	30	1.5	125	1100	629	936
CFSM	0.78	0.40	0.23	0.32	0.31	0.21	0.08	0.00	0.34	2.90	1.66	2.55
IN.	0.90	0.45	0.27	0.37	0.33	0.24	0.09	0.00	0.38	3.35	1.91	2.85
*PREC	1.98	---	---	1.54	0.28	0.62	0.35	0.00	4.87	12.83	5.66	6.02

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	10.6	4.32	4.91	7.09	10.0	13.4	6.96	4.31	9.93	19.4	20.8	18.5							
MAX	17.3	7.80	14.7	12.5	24.6	37.0	13.9	9.11	20.7	40.5	31.4	36.7							
(WY)	1996	1984	1984	1984	1983	1987	1987	1996	1982	1987	1982	1985							
MIN	4.81	2.35	1.43	2.00	1.91	1.28	0.50	0.024	2.09	6.98	10.2	5.81							
(WY)	2000	1985	2000	2000	2000	2000	2000	2000	2000	1996	2000	1996							

SUMMARY STATISTICS

FOR 2000 WATER YEAR

WATER YEARS 1982 - 2000

ANNUAL TOTAL	1848.34		
ANNUAL MEAN	5.05		10.9
HIGHEST ANNUAL MEAN			15.0
LOWEST ANNUAL MEAN			5.05
HIGHEST DAILY MEAN	125	Jul 15	272
LOWEST DAILY MEAN	0.02	May 12	0.02
ANNUAL SEVEN-DAY MINIMUM	0.02	May 12	0.02
MAXIMUM PEAK FLOW	388	Jul 15	536
MAXIMUM PEAK STAGE	9.06	Jul 15	12.27
ANNUAL RUNOFF (AC-FT)	3670		7860
ANNUAL RUNOFF (CFSM)	0.82		1.76
ANNUAL RUNOFF (INCHES)	11.14		23.90
10 PERCENT EXCEEDS	12		25
50 PERCENT EXCEEDS	1.8		5.5
90 PERCENT EXCEEDS	0.03		1.6

*PRECIPITATION, TOTAL, INCHES

TAMPA BAY AND COASTAL AREAS

02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
27...	1100	1.56	2.3	6.8	7.9	496	20.5	.9	2	.71	.22	.52	.06
DEC													
02...	1115	1.48	1.7	7.1	8.6	524	15.1	2.5	1	.80	.32	.43	.07
28...	1045	1.47	1.5	7.6	7.2	521	16.2	.9	<1	.60	.23	.38	.08
JAN													
19...	1000	1.51	1.8	6.4	8.1	527	18.0	1.2	2	.61	.25	.45	.10
25...	1020	1.56	2.2	7.1	7.8	368	14.4	1.2	<1	.47	.18	.19	.09
FEB													
16...	1051	1.57	2.3	6.1	7.9	473	18.6	1.4	<1	.56	.23	.16	.09
MAR													
22...	1015	1.48	1.1	4.7	7.3	510	21.6	1.0	1	.72	.31	.14	.14
JUN													
21...	1025	1.54	1.3	2.9	7.1	361	27.0	2.2	1	.82	.32	.03	.30
JUL													
17...	1018	2.34	17	5.2	7.8	386	27.5	2.0	6	1.1	.18	.27	.16
AUG													
02...	1504	4.02	77	6.1	7.5	153	27.7	3.4	31	.56	.10	.41	.13
16...	1201	2.21	12	5.2	7.7	397	28.3	1.4	4	.90	.13	.32	.11
SEP													
21...	0748	2.66	26	5.5	7.2	356	26.8	1.4	5	.76	.11	.34	.10

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
27...	.09
DEC	
02...	.10
28...	.09
JAN	
19...	.12
25...	.11
FEB	
16...	.12
MAR	
22...	.15
JUN	
21...	.33
JUL	
17...	.22
AUG	
02...	.311
16...	.153
SEP	
21...	.134

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

TAMPA BAY AND COASTAL AREAS

02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	1.1	0.92	1.0	6.2	0.68	10	0.52	1.2	6.7	4.4	14
2	4.0	1.1	0.89	1.0	2.6	0.66	7.8	0.43	1.2	3.6	12	9.4
3	3.5	1.1	0.95	0.98	3.2	0.60	4.6	0.43	0.42	8.8	15	9.7
4	3.4	1.1	0.98	1.0	3.8	14	3.3	0.39	0.25	27	9.2	7.1
5	3.1	1.1	0.88	1.0	2.2	5.4	2.9	0.33	0.38	12	8.7	17
6	3.0	1.1	0.85	1.0	1.7	2.8	2.8	0.40	14	4.9	12	5.8
7	3.0	1.2	0.84	0.99	1.4	1.7	2.2	0.42	21	3.4	7.1	13
8	2.7	1.1	0.79	3.7	1.3	1.3	2.0	0.31	6.9	2.2	5.3	18
9	2.3	0.95	0.82	2.3	1.2	1.2	1.6	0.25	3.5	1.8	37	30
10	2.1	1.1	0.94	1.5	1.1	1.0	1.6	0.34	2.3	2.3	17	18
11	2.0	0.99	0.96	1.3	1.0	0.84	1.4	0.24	1.8	3.9	11	14
12	1.9	0.95	0.80	2.0	0.97	0.73	1.2	0.25	1.6	2.7	12	10
13	1.8	1.0	0.87	1.4	0.95	0.99	1.3	0.15	1.2	18	12	12
14	1.7	2.3	0.92	1.3	0.88	0.91	1.2	0.15	1.4	36	11	218
15	1.6	1.4	0.95	1.2	0.90	0.73	1.1	0.15	1.3	10	7.6	161
16	1.6	1.1	0.93	1.1	0.90	0.63	1.00	0.13	0.96	5.8	5.9	51
17	1.7	1.1	4.0	1.0	0.88	0.62	0.88	0.54	0.86	5.3	5.7	30
18	1.6	1.0	1.4	1.0	0.94	0.55	0.79	0.14	1.0	4.4	4.3	24
19	1.5	1.0	1.4	1.0	0.82	21	0.72	0.20	6.2	2.9	3.6	17
20	1.4	1.1	1.2	1.1	0.80	12	0.73	0.12	1.6	6.5	3.2	12
21	1.4	0.92	1.0	1.0	0.77	6.6	0.65	0.08	9.4	42	2.9	11
22	1.3	0.87	0.95	1.0	0.76	4.4	0.69	0.06	72	37	2.9	9.3
23	1.3	0.88	0.92	1.0	0.70	2.9	0.65	0.06	34	39	22	8.4
24	1.3	1.0	0.92	1.0	0.66	2.4	0.57	0.05	21	38	29	8.5
25	1.2	2.7	1.00	1.1	0.91	2.2	0.62	0.17	10	16	12	10
26	1.3	2.7	0.99	1.1	0.80	1.9	0.58	0.12	5.9	13	6.2	8.5
27	1.2	1.8	0.89	1.1	0.68	1.6	0.50	0.08	29	18	4.7	8.1
28	1.2	1.3	2.4	1.1	0.71	1.4	0.50	0.06	83	16	4.9	11
29	1.2	1.1	1.6	1.2	---	26	0.52	0.04	84	11	42	7.5
30	1.2	0.98	1.2	1.1	---	39	0.54	0.05	24	7.1	12	6.5
31	1.5	---	1.1	1.1	---	14	---	0.04	---	5.1	16	---
TOTAL	62.2	37.14	35.26	38.67	39.73	170.74	54.94	6.70	441.37	410.4	358.6	779.8
MEAN	2.01	1.24	1.14	1.25	1.42	5.51	1.83	0.22	14.7	13.2	11.6	26.0
MAX	4.2	2.7	4.0	3.7	6.2	39	10	0.54	84	42	42	218
MIN	1.2	0.87	0.79	0.98	0.66	0.55	0.50	0.04	0.25	1.8	2.9	5.8
AC-FT	123	74	70	77	79	339	109	13	875	814	711	1550
CFSM	0.33	0.20	0.18	0.20	0.23	0.89	0.30	0.04	2.38	2.15	1.87	4.21
IN.	0.38	0.22	0.21	0.23	0.24	1.03	0.33	0.04	2.66	2.47	2.16	4.70
*PREC	0.05	0.65	0.67	0.48	1.03	5.45	0.19	0.00	14.16	9.28	17.89	8.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	9.65	3.94	4.44	6.36	8.97	12.4	6.32	3.85	10.5	18.7	19.9	19.2								
MAX	17.3	7.80	14.7	12.5	24.6	37.0	13.9	9.11	20.7	40.5	31.4	36.7								
(WY)	1996	1984	1984	1984	1983	1987	1987	1996	1982	1987	1982	1985								
MIN	2.01	1.24	1.14	1.25	1.42	1.28	0.50	0.024	2.09	6.98	10.2	5.81								
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2000	1996	2000	1996								

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1982 - 2001

ANNUAL TOTAL	1714.79	2435.55		
ANNUAL MEAN	4.69	6.67	10.3	
HIGHEST ANNUAL MEAN			15.0	1987
LOWEST ANNUAL MEAN			5.05	2000
HIGHEST DAILY MEAN	125	Jul 15	272	Mar 30 1987
LOWEST DAILY MEAN	0.02	May 12	0.02	May 12 2000
ANNUAL SEVEN-DAY MINIMUM	0.02	May 12	0.08	May 12 2000
MAXIMUM PEAK FLOW			425	Sep 14
MAXIMUM PEAK STAGE			9.53	Sep 14
ANNUAL RUNOFF (AC-FT)	3400	4830	7490	
ANNUAL RUNOFF (CFSM)	0.76	1.08	1.67	
ANNUAL RUNOFF (INCHES)	10.34	14.68	22.75	
10 PERCENT EXCEEDS	11	16	24	
50 PERCENT EXCEEDS	1.4	1.4	5.0	
90 PERCENT EXCEEDS	0.03	0.53	1.1	

*PRECIPITATION, TOTAL, INCHES

TAMPA BAY AND COASTAL AREAS

02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEDED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEDED (MG/L) (00530)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
OCT													
26...	0746	1.41	1.3	4.6	7.8	542	22.1	1.6	5	.90	.29	.41	.08
JAN													
09...	1011	1.52	2.1	6.3	6.8	378	14.0	2.5	32	1.1	.08	.62	.12
FEB													
27...	0846	1.36	.68	2.6	6.8	544	21.4	1.1	3	1.1	.38	.41	.10
MAR													
05...	1155	1.74	5.0	5.0	6.6	353	18.8	2.6	27	.97	.19	.24	.16
APR													
11...	0909	1.43	1.5	4.4	7.1	544	23.0	.1	4	.77	.21	.15	.11
JUN													
27...	0832	1.63	4.2	4.6	6.9	392	26.4	1.5	10	.98	.19	.20	.19
JUL													
31...	1103	1.69	4.4	4.8	7.1	452	28.1	1.6	8	1.1	.20	.42	.11
AUG													
15...	0836	1.79	6.7	5.4	7.2	417	28.3	1.8	7	.94	.17	.36	E.09
21...	0841	1.54	3.0	5.3	7.2	497	27.6	1.1	7	.80	.17	.43	.09
SEP													
05...	0915	1.76	6.2	5.0	6.7	408	27.6	1.4	5	.90	.14	.31	.08
25...	0823	1.90	9.6	5.7	6.5	424	26.4	2.0	6	.90	.14	.49	E.12

Date

PHOS-
PHORUS
TOTAL
(MG/L
AS P)
(00665)

OCT		
26...	.119	
JAN		
09...	.350	
FEB		
27...	.120	
MAR		
05...	.290	
APR		
11...	.130	
JUN		
27...	E.241	
JUL		
31...	.160	
AUG		
15...	.120	
21...	.130	
SEP		
05...	.044	
25...	.043	

Remark codes used in this report:

E -- Estimated value

TAMPA BAY AND COASTAL AREAS

02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	2.6	1.5	1.1	e0.02	1.6	2.8	0.23	0.00	29	4.9	20
2	5.2	2.5	1.3	8.4	e0.01	1.3	3.0	0.00	0.00	48	8.2	15
3	5.1	2.3	1.3	4.3	e0.01	1.6	13	0.07	0.00	12	21	12
4	4.9	2.2	1.4	2.8	0.07	4.2	8.1	0.75	0.00	7.1	15	9.4
5	4.7	2.1	1.4	2.1	0.77	2.6	3.8	1.0	0.00	10	8.6	28
6	4.6	1.9	1.3	5.1	2.0	2.1	2.5	1.3	0.00	12	5.8	35
7	4.6	1.8	1.2	2.9	6.6	2.1	2.0	1.4	0.00	19	60	18
8	4.1	1.7	2.0	2.1	9.5	2.5	1.4	1.3	0.00	17	55	12
9	3.7	1.7	1.5	1.9	8.8	2.5	0.40	1.1	0.00	11	19	9.4
10	3.2	1.6	1.4	1.6	8.7	2.7	0.01	0.56	0.00	6.6	12	7.7
11	2.3	1.8	1.2	1.5	9.9	2.7	0.00	0.06	0.00	5.1	8.5	30
12	0.74	1.7	1.1	1.5	9.2	2.6	2.8	0.02	0.00	25	6.7	35
13	0.32	1.6	1.0	1.9	9.0	2.7	3.7	0.00	0.00	39	5.8	22
14	2.3	1.6	1.1	8.5	8.9	2.8	2.2	0.12	0.00	17	9.4	15
15	12	1.6	1.2	4.4	8.7	2.7	1.8	0.02	4.0	10	14	11
16	7.9	1.6	1.2	2.7	8.7	2.7	1.6	0.00	1.6	7.1	7.3	9.1
17	8.4	1.6	1.2	2.0	8.9	2.8	1.2	0.00	2.9	5.4	6.5	7.6
18	7.8	1.7	2.2	1.5	8.9	2.8	1.1	2.3	13	11	7.3	6.4
19	6.9	1.8	1.3	1.1	8.8	2.9	0.04	9.2	5.3	11	14	5.7
20	7.9	1.9	1.2	0.87	8.9	2.9	0.00	3.5	2.3	7.2	11	17
21	16	1.9	1.2	0.63	8.9	2.8	0.00	0.96	2.6	e7.2	16	22
22	40	1.9	1.1	0.48	11	2.9	0.01	0.00	5.4	e5.9	24	12
23	17	1.9	1.1	0.20	24	2.6	0.11	0.00	4.5	5.1	14	8.2
24	e8.1	1.8	3.0	e0.10	12	2.7	0.03	0.00	2.9	19	13	6.4
25	9.5	1.7	1.5	e0.08	6.5	2.6	0.02	0.00	3.6	57	7.6	5.4
26	5.7	1.8	2.0	e0.07	3.9	2.6	0.16	0.00	3.4	63	5.7	5.0
27	4.5	1.7	1.6	e0.06	2.3	2.9	6.1	0.00	1.7	16	159	4.8
28	3.8	1.6	1.5	e0.05	1.8	2.7	4.9	0.00	6.3	13	76	4.1
29	3.4	1.6	1.3	e0.04	---	2.7	2.3	0.00	9.1	9.9	42	4.0
30	3.0	1.6	1.3	e0.03	---	2.8	1.4	0.00	3.7	7.7	34	3.7
31	2.9	---	1.2	e0.02	---	2.8	---	0.00	---	5.9	32	---
TOTAL	216.26	54.8	43.8	60.03	196.78	80.9	66.48	23.89	72.30	519.2	723.3	400.9
MEAN	6.98	1.83	1.41	1.94	7.03	2.61	2.22	0.77	2.41	16.7	23.3	13.4
MAX	40	2.6	3.0	8.5	24	4.2	13	9.2	13	63	159	35
MIN	0.32	1.6	1.0	0.02	0.01	1.3	0.00	0.00	0.00	5.1	4.9	3.7
AC-FT	429	109	87	119	390	160	132	47	143	1030	1430	795
CFSM	1.13	0.30	0.23	0.31	1.14	0.42	0.36	0.12	0.39	2.71	3.78	2.17
IN.	1.30	0.33	0.26	0.36	1.19	0.49	0.40	0.14	0.44	3.13	4.36	2.42
*PREC	2.04	0.05	0.85	2.14	2.22	0.51	2.18	1.22	5.64	14.32	14.04	5.36

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	9.38	3.70	4.10	5.87	8.75	11.3	5.86	3.55	9.65	18.5	20.2	18.7										
MAX	17.3	7.80	14.7	12.5	24.6	37.0	13.9	9.11	20.7	40.5	31.4	36.7										
(WY)	1996	1984	1984	1984	1983	1987	1987	1996	1982	1987	1982	1985										
MIN	2.01	1.24	1.14	1.25	1.42	1.28	0.50	0.024	2.09	6.98	10.2	5.81										
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2000	1996	2000	1996										

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1982 - 2002

ANNUAL TOTAL	2615.81	2458.64	
ANNUAL MEAN	7.17	6.74	9.93
HIGHEST ANNUAL MEAN			15.0
LOWEST ANNUAL MEAN			5.05
HIGHEST DAILY MEAN	218	Sep 14	272
LOWEST DAILY MEAN	0.04	May 29	0.00
ANNUAL SEVEN-DAY MINIMUM	0.08	May 25	0.00
MAXIMUM PEAK FLOW			536
MAXIMUM PEAK STAGE			7.91
ANNUAL RUNOFF (AC-FT)	5190	4880	7200
ANNUAL RUNOFF (CFSM)	1.16	1.09	1.61
ANNUAL RUNOFF (INCHES)	15.77	14.82	21.87
10 PERCENT EXCEEDS	16	15	23
50 PERCENT EXCEEDS	1.8	2.7	4.8
90 PERCENT EXCEEDS	0.52	0.02	1.0

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDE (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
OCT													
31...	0838	.84	2.9	6.7	7.6	562	19.9	.7	<1	E1.5	.21	.52	.06
NOV													
20...	0823	.76	2.0	6.4	8.5	565	20.3	1.4	2	E.80	.16	.37	.07
DEC													
12...	0805	.67	1.1	5.0	7.3	593	22.7	1.0	<1	E.70	.22	.30	E.07
JAN													
31...	0816	.56	E.02	5.5	7.6	519	22.1	1.1	<1	.80	.18	.21	.06
APR													
04...	0833	1.86	8.5	8.1	6.2	385	21.2	4.2	3	.80	.08	.08	.08
30...	0838	1.38	1.5	4.7	6.3	502	24.7	1.1	<1	.70	.16	.11	.13
JUN													
26...	0848	1.54	3.7	4.3	6.4	358	26.5	1.4	2	.70	.10	.08	.10
AUG													
01...	0933	1.64	5.1	5.0	6.1	452	27.6	1.0	1	.90	.16	.40	.11
13...	0937	1.70	6.1	5.3	6.2	450	26.9	.9	4	.90	.16	.63	.10
27...	1037	7.73	289	6.1	6.4	182	25.9	2.0	15	.70	.03	.22	.15
SEP													
12...	0932	2.86	32	5.6	6.2	343	26.8	1.5	8	.70	.05	.27	.07

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
31...	E.040
NOV	
20...	E.041
DEC	
12...	E.043
JAN	
31...	.060
APR	
04...	.118
30...	.138
JUN	
26...	.095
AUG	
01...	.100
13...	.082
27...	.227
SEP	
12...	.144

Remark codes used in this report:

< -- Less than
E -- Estimated value

TAMPA BAY AND COASTAL AREAS

02307731 ALLEN CREEK NEAR LARGO, FL

LOCATION.--Lat 27°56'30", long 82°45'00" (1927 North American datum), in SE¹/₄ sec.24, T.29 S., R.15 E., Pinellas County, Hydrologic Unit 03100206, 3.0 mi northeast of Largo, and 3.1 mi upstream from mouth.
DRAINAGE AREA.--1.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1947 to September 1951; October 1971 to September 1986 (miscellaneous discharge measurements); August 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 15.58 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1951, at site 60 ft upstream at present datum.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	e1.0	0.77
2	---	---	---	---	---	---	---	---	---	---	e1.0	0.82
3	---	---	---	---	---	---	---	---	---	---	e1.1	0.78
4	---	---	---	---	---	---	---	---	---	---	1.2	0.69
5	---	---	---	---	---	---	---	---	---	---	7.1	0.59
6	---	---	---	---	---	---	---	---	---	---	11	1.9
7	---	---	---	---	---	---	---	---	---	---	5.5	20
8	---	---	---	---	---	---	---	---	---	---	2.1	7.3
9	---	---	---	---	---	---	---	---	---	---	1.4	3.2
10	---	---	---	---	---	---	---	---	---	---	1.3	2.3
11	---	---	---	---	---	---	---	---	---	---	1.2	2.0
12	---	---	---	---	---	---	---	---	---	---	8.1	3.5
13	---	---	---	---	---	---	---	---	---	---	2.3	1.8
14	---	---	---	---	---	---	---	---	---	---	1.3	1.8
15	---	---	---	---	---	---	---	---	---	---	1.0	1.6
16	---	---	---	---	---	---	---	---	---	---	0.67	1.4
17	---	---	---	---	---	---	---	---	---	---	0.94	1.2
18	---	---	---	---	---	---	---	---	---	---	14	1.2
19	---	---	---	---	---	---	---	---	---	---	6.1	3.2
20	---	---	---	---	---	---	---	---	---	---	1.6	20
21	---	---	---	---	---	---	---	---	---	---	11	9.0
22	---	---	---	---	---	---	---	---	---	---	18	3.3
23	---	---	---	---	---	---	---	---	---	---	14	2.2
24	---	---	---	---	---	---	---	---	---	---	6.8	1.9
25	---	---	---	---	---	---	---	---	---	---	2.7	11
26	---	---	---	---	---	---	---	---	---	---	1.9	5.6
27	---	---	---	---	---	---	---	---	---	---	2.3	4.7
28	---	---	---	---	---	---	---	---	---	---	1.8	3.1
29	---	---	---	---	---	---	---	---	---	---	1.3	3.3
30	---	---	---	---	---	---	---	---	---	---	1.1	2.2
31	---	---	---	---	---	---	---	---	---	---	0.91	---
TOTAL	---	---	---	---	---	---	---	---	---	---	131.72	122.35
MEAN	---	---	---	---	---	---	---	---	---	---	4.25	4.08
MAX	---	---	---	---	---	---	---	---	---	---	18	20
MIN	---	---	---	---	---	---	---	---	---	---	0.67	0.59
AC-FT	---	---	---	---	---	---	---	---	---	---	261	243
CFSM	---	---	---	---	---	---	---	---	---	---	2.26	2.17
IN.	---	---	---	---	---	---	---	---	---	---	2.61	2.42
*PREC	---	---	---	---	---	---	---	---	---	---	---	6.43

e Estimated

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

	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
MEAN	1.59	1.13	1.12	1.27	0.95	1.01	0.78	0.090	0.20	2.45	4.40	4.91		
MAX	2.25	1.87	1.39	2.86	1.74	2.13	1.62	0.18	0.69	4.53	9.88	9.99		
(WY)	1948	1948	1951	1948	1948	1947	1951	1947	1949	1950	1947	1950		
MIN	0.90	0.36	0.69	0.49	0.22	0.055	0.097	0.000	0.000	0.43	0.41	1.44		
(WY)	1951	1951	1950	1950	1950	1949	1949	1949	1948	1948	1950	1951		

SUMMARY STATISTICS

WATER YEARS 1947 - 1999

ANNUAL MEAN	1.49
HIGHEST ANNUAL MEAN	1.75
LOWEST ANNUAL MEAN	1.26
HIGHEST DAILY MEAN	144 Sep 5 1950
LOWEST DAILY MEAN	0.00 Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00 May 21 1947
MAXIMUM PEAK FLOW	718 Jun 26 1974
MAXIMUM PEAK STAGE	11.64 Jun 26 1974
ANNUAL RUNOFF (AC-FT)	1080
ANNUAL RUNOFF (CFSM)	0.79
ANNUAL RUNOFF (INCHES)	10.76
10 PERCENT EXCEEDS	2.4
50 PERCENT EXCEEDS	0.90
90 PERCENT EXCEEDS	0.00

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307731 ALLEN CREEK NEAR LARGO, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 1999.

WATER-QUALITY DATA, PERIOD AUGUST TO SEPTEMBER 1999

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P) (70507)
AUG 18...	1133	3.79	1.0	4.5	7.6	326	29.3	1.3	2	.50	.08	.08	.11
SEP 08...	1100	4.11	6.6	5.7	7.8	193	26.3	2.6	<1	.72	.17	.18	.15

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
AUG 18...	.14
SEP 08...	.16

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

TAMPA BAY AND COASTAL AREAS

02307731 ALLEN CREEK NEAR LARGO, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	0.68	0.33	0.48	2.3	0.47	0.81	0.07	0.05	3.0	12	2.3
2	1.6	3.5	0.38	0.40	0.83	0.56	0.54	0.08	0.05	1.1	e50	1.9
3	1.7	0.95	0.41	0.43	0.68	0.65	0.40	0.09	0.05	0.51	9.5	1.2
4	3.4	0.68	0.42	0.46	0.62	0.65	0.33	0.08	0.05	0.33	5.6	0.98
5	8.6	0.56	0.37	0.39	0.58	0.58	0.27	0.09	0.05	0.29	4.1	6.1
6	3.8	0.64	0.45	0.49	0.54	0.57	0.25	0.07	0.04	0.23	3.3	2.4
7	2.6	0.70	0.49	0.75	0.57	0.58	0.25	0.07	0.04	0.19	2.8	9.4
8	2.2	0.72	0.40	0.58	0.58	0.56	0.25	0.05	0.04	0.19	2.3	7.0
9	2.1	0.68	0.42	0.46	0.53	0.57	0.21	0.10	0.05	0.29	6.6	2.8
10	1.7	0.63	0.43	1.1	0.54	0.68	0.19	0.10	0.05	0.43	3.7	2.2
11	1.5	0.63	0.43	1.5	0.61	0.66	0.23	0.08	0.05	0.23	2.4	2.2
12	6.4	0.63	0.38	0.58	0.66	0.65	0.23	0.06	0.07	0.16	5.0	1.7
13	3.6	0.60	0.39	0.47	0.66	0.55	0.20	0.06	0.09	0.12	16	1.3
14	1.9	0.61	0.56	0.39	1.1	0.56	0.77	0.09	0.18	3.8	5.2	1.2
15	1.5	0.62	0.43	0.34	1.9	0.49	0.78	0.07	0.12	155	9.7	1.1
16	1.4	0.63	0.43	0.31	1.1	0.50	0.47	0.06	0.09	14	3.9	7.8
17	1.3	0.54	0.49	0.35	0.91	0.64	0.37	0.06	16	3.9	2.7	25
18	1.2	0.54	2.3	0.36	0.88	0.72	0.29	0.05	9.4	2.2	2.2	8.8
19	1.1	0.54	1.8	0.36	0.80	0.68	0.21	0.05	1.0	62	1.9	6.1
20	0.97	0.54	0.76	0.36	0.68	0.79	0.17	0.05	0.57	8.0	1.7	6.4
21	2.7	0.50	0.60	0.36	0.54	0.73	0.16	0.05	0.50	3.8	1.5	5.1
22	1.6	0.46	0.57	0.34	0.49	0.58	0.16	0.05	0.34	7.9	1.5	3.9
23	1.1	0.47	0.55	0.33	0.50	0.55	0.14	0.05	0.25	6.8	2.0	3.3
24	0.85	0.48	0.53	2.5	0.57	0.53	0.12	0.05	0.19	39	2.2	2.8
25	0.80	0.67	0.49	1.2	0.58	0.51	0.13	0.06	3.1	13	1.4	2.5
26	0.78	0.61	0.45	0.54	0.58	0.50	0.14	0.06	12	5.6	2.2	2.1
27	0.72	0.57	0.46	0.44	0.56	1.00	0.11	0.06	2.7	3.8	2.2	1.9
28	0.67	0.48	0.62	0.45	0.57	1.2	0.10	0.05	0.92	3.5	1.3	1.8
29	0.67	0.44	0.54	0.47	0.52	0.76	0.10	0.05	7.5	7.3	1.2	1.6
30	0.64	e0.46	0.52	0.45	---	0.62	0.09	0.05	1.8	9.1	1.1	1.2
31	0.58	---	0.48	3.4	---	0.85	---	0.05	---	16	1.2	---
TOTAL	61.48	20.76	17.88	21.04	21.98	19.94	8.47	2.01	58.47	371.77	168.4	124.08
MEAN	1.98	0.69	0.58	0.68	0.76	0.64	0.28	0.065	1.95	12.0	5.43	4.14
MAX	8.6	3.5	2.3	3.4	2.3	1.2	0.81	0.10	16	155	50	25
MIN	0.58	0.44	0.33	0.31	0.49	0.47	0.09	0.05	0.04	0.12	1.1	0.98
AC-FT	122	41	35	42	44	40	17	4.0	116	737	334	246
CFSM	1.05	0.37	0.31	0.36	0.40	0.34	0.15	0.03	1.04	6.38	2.89	2.20
IN.	1.22	0.41	0.35	0.42	0.43	0.39	0.17	0.04	1.16	7.36	3.33	2.46
*PREC	2.17	0.47	1.02	1.37	0.23	0.37	0.29	0.0	6.05	21.73	2.91	2.31

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2000, BY WATER YEAR (WY)

MEAN	1.67	1.04	1.01	1.15	0.91	0.95	0.69	0.086	0.49	4.04	4.55	4.80
MAX	2.25	1.87	1.39	2.86	1.74	2.13	1.62	0.18	1.95	12.0	9.88	9.99
(WY)	1948	1948	1951	1948	1948	1947	1951	1947	2000	2000	1947	1950
MIN	0.90	0.36	0.58	0.49	0.22	0.055	0.097	0.000	0.000	0.43	0.41	1.44
(WY)	1951	1951	2000	1950	1950	1949	1949	1949	1948	1948	1950	1951

SUMMARY STATISTICS

FOR 2000 WATER YEAR

WATER YEARS 1947 - 2000

ANNUAL TOTAL	896.28	
ANNUAL MEAN	2.45	1.68
HIGHEST ANNUAL MEAN		2.45 2000
LOWEST ANNUAL MEAN		1.26 1951
HIGHEST DAILY MEAN	155	Jul 15 2000
LOWEST DAILY MEAN	0.04	Jun 6 Many Days
ANNUAL SEVEN-DAY MINIMUM	0.05	Jun 2 0.00 May 21 1947
MAXIMUM PEAK FLOW	1020	Jul 15 2000
MAXIMUM PEAK STAGE	11.45	Jul 15 11.64 Jun 26 1974
ANNUAL RUNOFF (AC-FT)	1780	1220
ANNUAL RUNOFF (CFSM)	1.30	0.89
ANNUAL RUNOFF (INCHES)	17.73	12.15
10 PERCENT EXCEEDS	4.4	2.6
50 PERCENT EXCEEDS	0.58	0.80
90 PERCENT EXCEEDS	0.08	0.00

*PRECIPITATION, TOTAL, INCHES

TAMPA BAY AND COASTAL AREAS

02307731 ALLEN CREEK NEAR LARGO, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
27...	1200	3.69	.72	5.9	7.6	392	21.1	1.0	<1	.53	.06	.10	.12
DEC													
02...	1145	3.60	.39	7.2	8.4	435	14.0	2.6	7	.61	.05	.05	.12
28...	1140	3.65	.62	7.4	6.9	374	15.6	1.0	<1	.39	.02	.08	.09
JAN													
19...	1030	3.57	.36	6.6	7.9	406	17.6	1.3	6	.50	.03	<.02	.13
25...	0935	3.73	1.2	8.0	8.0	411	13.4	1.0	2	.38	.04	.05	.09
FEB													
16...	1200	3.71	1.0	6.9	7.4	369	19.9	2.0	3	.46	.05	.02	.13
MAR													
22...	1055	3.64	.58	4.1	7.4	425	22.9	1.6	<1	.70	.08	.04	.29
JUN													
21...	1105	3.68	.54	6.8	7.5	275	28.8	5.0	8	1.3	.10	<.02	.37
JUL													
17...	1057	4.03	3.9	6.2	7.6	334	28.8	1.6	3	1.1	.35	.48	.16
AUG													
02...	1403	6.68	166	7.3	8.0	160	27.2	3.6	80	1.2	.17	.35	.16
16...	1120	3.99	3.9	5.3	6.9	320	28.3	1.6	14	.90	.22	.28	.16
SEP													
20...	1230	4.10	5.7	4.9	7.4	414	28.4	1.2	2	.79	.17	.43	.12

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
27...	.18
DEC	
02...	.23
28...	.11
JAN	
19...	.20
25...	.10
FEB	
16...	.17
MAR	
22...	.32
JUN	
21...	.47
JUL	
17...	.21
AUG	
02...	.466
16...	.241
SEP	
20...	.161

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

TAMPA BAY AND COASTAL AREAS

02307731 ALLEN CREEK NEAR LARGO, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	0.53	0.48	0.39	4.1	0.22	3.4	0.14	0.19	4.1	1.6	5.8
2	1.2	0.47	0.46	0.42	1.6	0.23	1.9	0.14	1.1	4.1	3.0	3.7
3	1.0	0.43	0.43	0.40	1.8	0.22	1.5	0.14	0.34	2.6	6.8	2.6
4	1.0	0.45	0.36	0.42	2.4	10	1.2	0.14	1.6	8.0	4.8	2.1
5	1.0	0.42	0.36	0.43	1.2	1.2	1.1	0.13	2.1	7.7	3.7	1.8
6	0.99	0.40	0.36	0.43	0.92	0.31	0.97	0.13	4.6	2.7	9.6	4.4
7	0.95	0.42	0.36	0.38	0.74	0.20	0.88	0.12	4.9	1.9	3.2	9.9
8	0.86	0.43	0.36	1.8	0.67	0.18	0.81	0.12	1.0	1.5	1.7	12
9	0.80	0.38	0.36	1.4	0.59	0.19	0.79	0.11	0.66	1.2	19	31
10	0.74	0.57	0.36	0.86	0.60	0.26	0.75	0.11	0.46	1.2	10	14
11	0.73	0.55	0.36	0.74	0.48	0.20	0.72	0.11	0.39	2.9	14	3.5
12	0.76	0.42	0.32	0.97	0.39	0.16	0.69	0.10	0.36	2.6	17	7.5
13	0.75	0.37	0.23	1.1	0.41	0.21	0.68	0.10	0.34	3.1	8.2	9.2
14	0.75	0.56	0.29	1.1	0.39	0.33	0.68	0.09	0.32	5.7	4.0	94
15	0.65	0.68	0.39	0.94	0.36	0.25	0.60	0.09	0.24	2.9	2.2	31
16	0.66	0.49	0.43	1.1	0.31	0.20	0.53	0.08	0.21	1.6	1.8	14
17	0.65	0.45	2.0	1.2	0.31	0.17	0.56	0.06	0.18	1.6	1.6	9.3
18	0.58	0.50	0.67	1.2	0.26	0.24	0.57	0.07	1.3	1.4	1.8	7.4
19	0.58	0.40	0.51	1.3	0.22	14	0.51	0.06	9.0	1.0	1.5	6.2
20	0.63	0.36	0.52	1.5	0.20	3.3	0.54	0.06	1.1	3.8	1.3	4.9
21	0.74	0.34	0.47	1.3	0.20	1.4	0.58	0.05	0.58	11	0.93	4.7
22	0.62	0.29	0.46	1.3	0.22	0.85	0.53	0.05	18	16	0.86	4.1
23	0.53	0.28	0.40	1.2	0.24	0.59	0.49	0.05	8.6	10	2.0	3.4
24	0.53	0.32	0.37	0.95	0.30	0.51	0.34	0.05	6.9	13	8.6	4.1
25	0.49	0.79	0.36	1.1	0.46	0.44	0.14	0.05	2.1	5.6	2.7	6.2
26	0.48	1.4	0.35	1.2	0.31	0.47	0.13	0.06	0.97	3.8	0.98	3.7
27	0.50	0.78	0.35	1.2	0.24	0.40	0.13	0.06	17	7.5	0.74	3.5
28	0.50	0.58	0.86	1.1	0.22	0.35	0.12	0.06	36	7.8	1.9	3.3
29	0.47	0.50	1.00	1.0	---	15	0.11	0.06	21	3.7	38	3.0
30	0.47	0.46	0.58	0.99	---	11	0.13	0.05	7.7	2.4	18	2.0
31	0.54	---	0.43	0.99	---	4.7	---	0.05	---	1.8	11	---
TOTAL	22.35	15.02	15.24	30.41	20.14	67.78	22.08	2.69	149.24	144.20	202.51	312.3
MEAN	0.72	0.50	0.49	0.98	0.72	2.19	0.74	0.087	4.97	4.65	6.53	10.4
MAX	1.2	1.4	2.0	1.8	4.1	15	3.4	0.14	36	16	38	94
MIN	0.47	0.28	0.23	0.38	0.20	0.16	0.11	0.05	0.18	1.0	0.74	1.8
AC-FT	44	30	30	60	40	134	44	5.3	296	286	402	619
CFSM	0.38	0.27	0.26	0.52	0.38	1.16	0.39	0.05	2.65	2.47	3.47	5.54
IN.	0.44	0.30	0.30	0.60	0.40	1.34	0.44	0.05	2.95	2.85	4.01	6.18
*PREC	0.01	0.51	0.59	0.46	0.53	1.45	0.28	0.00	4.94	5.08	7.51	4.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2001, BY WATER YEAR (WY)

	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	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	2001
MEAN	1.51	0.95	0.92	1.12	0.88	1.13	0.70	0.086	1.13	4.13	4.79	5.50																																											
MAX	2.25	1.87	1.39	2.86	1.74	2.19	1.62	0.18	4.97	12.0	9.88	10.4																																											
(WY)	1948	1948	1951	1948	1948	2001	1951	1947	2001	2000	1947	2001																																											
MIN	0.72	0.36	0.49	0.49	0.22	0.055	0.097	0.000	0.000	0.43	0.41	1.44																																											
(WY)	2001	1951	2001	1950	1950	1949	1949	1949	1948	1948	1950	1951																																											

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1947 - 2001

ANNUAL TOTAL	848.77	1003.96	
ANNUAL MEAN	2.32	2.75	
HIGHEST ANNUAL MEAN			1.86
LOWEST ANNUAL MEAN			2.75
HIGHEST DAILY MEAN	155	Jul 15	2001
LOWEST DAILY MEAN	0.04	Jun 6	1951
ANNUAL SEVEN-DAY MINIMUM	0.05	Jun 2	1.26
MAXIMUM PEAK FLOW			155
MAXIMUM PEAK STAGE			Jul 15 2000
ANNUAL RUNOFF (AC-FT')	1680	1990	0.00
ANNUAL RUNOFF (CFSM)	1.23	1.46	Many Days
ANNUAL RUNOFF (INCHES)	16.79	19.87	0.00
10 PERCENT EXCEEDS	3.9	7.7	0.00
50 PERCENT EXCEEDS	0.56	0.69	0.00
90 PERCENT EXCEEDS	0.08	0.14	0.00

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307731 ALLEN CREEK NEAR LARGO, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
25...	1200	3.64	.49	6.2	8.6	500	22.3	1.5	8	.79	.04	.03	.12
JAN													
09...	0920	3.81	1.5	8.1	6.3	454	12.9	.8	3	.52	.05	<.02	.07
FEB													
27...	0805	3.63	.24	3.9	7.9	427	22.5	.9	<1	.79	.04	.02	.17
MAR													
05...	1230	3.80	.84	6.2	6.4	302	20.2	5.5	9	1.3	.33	.06	.34
APR													
11...	0825	3.73	.72	5.3	6.9	396	24.0	.7	5	.54	.03	<.02	.17
JUN													
27...	0740	3.62	.73	4.9	6.1	277	26.8	1.3	4	.66	.04	.03	.28
AUG													
01...	0818	3.76	1.6	5.3	6.8	379	27.0	.7	3	.60	.04	<.02	.18
15...	0756	3.87	2.5	4.8	6.6	364	28.7	1.6	5	.78	.05	<.02	E.23
21...	0850	3.70	.93	4.1	7.2	452	28.6	2.3	6	.80	.09	<.02	.28
SEP													
05...	0820	3.81	1.8	4.5	6.3	403	27.7	2.3	3	.90	.13	<.02	.26
25...	0727	4.11	7.2	4.7	6.8	513	26.7	.8	<1	.70	.09	.11	E.13

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
25...	.227
JAN	
09...	.110
FEB	
27...	.170
MAR	
05...	.370
APR	
11...	.210
JUN	
27...	E.324
AUG	
01...	.210
15...	.270
21...	.370
SEP	
05...	.093
25...	E.140

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

TAMPA BAY AND COASTAL AREAS

02307731 ALLEN CREEK NEAR LARGO, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	0.86	0.50	0.43	0.56	0.58	0.11	0.11	0.16	e22	0.92	5.1
2	1.6	0.90	0.48	8.7	0.57	0.65	0.14	0.10	0.14	e42	2.8	4.0
3	1.5	0.89	0.48	3.6	0.51	1.2	11	0.10	0.11	2.1	4.6	3.3
4	1.5	0.81	0.64	2.0	0.52	5.9	4.9	0.30	0.12	1.2	3.0	2.9
5	1.4	0.88	0.59	0.97	0.54	1.4	1.1	0.15	0.13	1.5	1.2	7.7
6	1.4	0.85	0.51	5.2	0.46	0.76	0.79	0.13	0.11	2.1	0.94	8.2
7	1.3	0.78	0.49	2.4	3.6	0.55	0.61	0.13	e0.12	6.2	22	3.3
8	1.3	0.70	4.7	1.4	1.6	0.39	0.49	0.18	e0.13	5.3	8.2	2.5
9	1.2	0.69	1.2	0.78	0.66	0.35	0.45	0.18	e0.13	3.0	2.3	2.5
10	1.1	0.78	0.78	0.62	0.62	0.32	0.39	0.17	e0.12	1.2	2.1	2.5
11	1.1	0.74	0.64	0.57	1.1	0.31	0.38	0.15	e0.12	1.2	1.1	16
12	1.2	0.68	0.65	0.66	0.70	0.31	1.2	0.14	e0.13	16	0.82	12
13	1.1	0.68	0.59	2.3	0.54	0.29	1.7	0.14	e0.13	20	0.84	5.5
14	14	0.63	0.55	9.3	0.55	0.27	0.79	0.16	e0.13	5.4	5.1	3.8
15	7.9	0.70	0.54	4.1	0.55	0.30	0.50	0.16	e3.0	2.5	7.0	2.8
16	2.7	0.69	0.44	1.8	0.54	0.30	0.40	0.14	e1.7	1.6	1.7	2.4
17	1.7	0.65	0.40	1.1	0.49	0.22	0.36	0.12	e2.4	1.3	1.1	2.3
18	1.4	0.65	1.3	0.97	0.49	0.20	0.33	0.10	e9.3	1.6	1.4	1.8
19	1.2	0.68	0.73	0.77	0.47	0.19	0.31	9.1	e3.6	1.9	5.8	1.6
20	1.2	0.65	0.54	0.77	0.50	0.19	0.27	3.8	0.54	1.2	2.9	13
21	8.4	0.59	0.45	0.76	0.54	0.21	0.23	1.2	0.36	0.99	11	11
22	7.7	0.55	0.42	0.70	2.2	0.24	0.19	0.54	0.96	1.2	9.4	3.9
23	2.4	0.55	0.41	0.61	16	0.21	0.19	0.35	1.2	1.5	5.0	2.7
24	1.5	0.60	2.3	0.63	4.7	0.19	0.18	0.24	0.69	16	7.6	2.2
25	2.9	0.60	0.90	0.67	1.7	0.20	0.16	0.21	1.3	5.7	1.9	2.1
26	1.5	0.59	0.67	0.69	1.2	0.20	0.17	0.19	0.53	3.4	1.3	2.4
27	1.1	0.61	0.55	0.56	0.84	0.14	0.24	0.16	0.39	2.0	67	2.6
28	0.93	0.56	0.48	0.60	0.61	0.09	0.22	0.17	8.4	1.7	25	1.8
29	0.89	0.54	0.46	0.59	---	0.15	0.17	0.17	13	1.3	11	1.6
30	0.89	0.52	0.41	0.56	---	0.15	0.11	0.19	e7.2	1.2	17	1.4
31	0.89	---	0.42	0.57	---	0.13	---	0.19	---	1.0	12	---
TOTAL	76.60	20.60	24.22	55.38	43.36	16.59	28.08	19.17	56.35	175.29	244.02	134.9
MEAN	2.47	0.69	0.78	1.79	1.55	0.54	0.94	0.62	1.88	5.65	7.87	4.50
MAX	14	0.90	4.7	9.3	16	5.9	11	9.1	13	42	67	16
MIN	0.89	0.52	0.40	0.43	0.46	0.09	0.11	0.10	0.11	0.99	0.82	1.4
AC-FT	152	41	48	110	86	33	56	38	112	348	484	268
CFSM	1.31	0.37	0.42	0.95	0.82	0.28	0.50	0.33	1.00	3.01	4.19	2.39
IN.	1.52	0.41	0.48	1.10	0.86	0.33	0.56	0.38	1.12	3.47	4.83	2.67
*PREC	1.21	0.02	0.71	1.28	0.90	0.32	0.50	0.53	---	---	15.61	7.65

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2002, BY WATER YEAR (WY)

MEAN	1.65	0.91	0.90	1.22	0.97	1.05	0.73	0.15	1.23	4.32	5.14	5.39
MAX	2.47	1.87	1.39	2.86	1.74	2.19	1.62	0.62	4.97	12.0	9.88	10.4
(WY)	2002	1948	1951	1948	1948	2001	1951	2002	2001	2000	1947	2001
MIN	0.72	0.36	0.49	0.49	0.22	0.055	0.097	0.000	0.000	0.43	0.41	1.44
(WY)	2001	1951	2001	1950	1950	1949	1949	1949	1948	1948	1950	1951

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1947 - 2002

ANNUAL TOTAL	1072.77	894.56		
ANNUAL MEAN	2.94	2.45	1.94	
HIGHEST ANNUAL MEAN			2.75	2001
LOWEST ANNUAL MEAN			1.26	1951
HIGHEST DAILY MEAN	94	Sep 14	155	Jul 15 2000
LOWEST DAILY MEAN	0.05	May 21	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.05	May 19	0.00	May 21 1947
MAXIMUM PEAK FLOW			326	Aug 27
MAXIMUM PEAK STAGE			7.92	Aug 27
ANNUAL RUNOFF (AC-FT)	2130	1770	1410	
ANNUAL RUNOFF (CFSM)	1.56	1.30	1.03	
ANNUAL RUNOFF (INCHES)	21.23	17.70	14.05	
10 PERCENT EXCEEDS	7.9	6.0	3.4	
50 PERCENT EXCEEDS	0.90	0.78	0.80	
90 PERCENT EXCEEDS	0.14	0.16	0.00	

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307731 ALLEN CREEK NEAR LARGO, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDE (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
OCT													
31...	0745	3.65	.89	6.1	7.2	448	19.5	.6	<1	E.30	.03	.04	.11
NOV													
20...	0735	3.60	.63	5.7	7.7	508	20.8	.7	2	E.60	.04	.03	.14
DEC													
11...	1052	3.61	.64	5.5	6.2	500	23.0	.8	6	E.50	.05	.03	.22
JAN													
30...	1008	3.62	.54	6.5	6.6	474	22.2	.8	12	.90	.03	.03	.17
APR													
03...	1021	3.53	.14	7.0	6.2	501	23.1	.7	18	.70	.05	<.02	.19
29...	1054	3.48	.20	4.7	6.0	446	25.5	1.7	19	1.0	.09	.04	.29
JUN													
25...	1050	3.70	1.3	5.3	6.5	336	26.5	1.8	4	.80	.07	<.02	.23
AUG													
01...	0844	3.65	.95	4.8	6.2	451	28.5	.9	5	.70	.06	.05	.16
13...	0825	3.65	.89	5.1	6.1	430	27.4	.8	<1	.60	.06	.05	.17
27...	0909	6.21	121	7.2	7.3	124	25.2	1.6	12	.80	.05	.22	.13
SEP													
12...	0850	4.25	12	5.9	6.4	273	26.1	1.0	4	.60	.07	.21	.10

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
31...	E.135
NOV	
20...	E.187
DEC	
11...	E.210
JAN	
30...	.273
APR	
03...	.281
29...	.487
JUN	
25...	.263
AUG	
01...	.182
13...	.188
27...	.201
SEP	
12...	.125

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

TAMPA BAY AND COASTAL AREAS

02307834 UPPER HIGHLANDS CANAL AT CONTROL NEAR PINELLAS PARK, FL

LOCATION.--Lat 27°52'19", long 82°41'23" (1983 North American datum), in NW¹/₄ sec.15, T.30 S., R.16E., Pinellas County, Hydrologic Unit 03100207, on upstream side of a fixed weir, 100 ft north of 110th Avenue, 800 ft east of 43rd Street, and 2.5 mi northeast of Pinellas Park.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June to September 2002.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 10.93 ft, Sept. 5; minimum, 8.05 ft, June 24.

GAGE HEIGHT, FEET, PERIOD JUNE TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	8.53	9.99	10.29
2	---	---	---	---	---	---	---	---	---	8.77	10.05	10.27
3	---	---	---	---	---	---	---	---	---	8.77	10.17	10.27
4	---	---	---	---	---	---	---	---	---	8.76	10.16	10.22
5	---	---	---	---	---	---	---	---	---	8.87	10.14	10.35
6	---	---	---	---	---	---	---	---	---	9.13	10.12	10.67
7	---	---	---	---	---	---	---	---	---	9.13	10.18	10.49
8	---	---	---	---	---	---	---	---	---	9.12	10.25	10.35
9	---	---	---	---	---	---	---	---	---	9.15	10.21	10.28
10	---	---	---	---	---	---	---	---	---	9.14	10.21	10.25
11	---	---	---	---	---	---	---	---	---	9.20	10.18	10.27
12	---	---	---	---	---	---	---	---	---	9.46	10.15	10.30
13	---	---	---	---	---	---	---	---	---	10.0	10.13	10.29
14	---	---	---	---	---	---	---	---	---	10.23	10.13	10.26
15	---	---	---	---	---	---	---	---	---	10.20	10.19	10.22
16	---	---	---	---	---	---	---	---	---	10.17	10.17	10.19
17	---	---	---	---	---	---	---	---	---	10.14	10.15	10.17
18	---	---	---	---	---	---	---	---	---	8.16	10.12	10.13
19	---	---	---	---	---	---	---	---	---	8.15	10.11	10.13
20	---	---	---	---	---	---	---	---	---	8.13	10.10	10.12
21	---	---	---	---	---	---	---	---	---	8.10	10.08	10.11
22	---	---	---	---	---	---	---	---	---	8.09	10.06	10.10
23	---	---	---	---	---	---	---	---	---	8.07	---	10.09
24	---	---	---	---	---	---	---	---	---	8.08	---	10.08
25	---	---	---	---	---	---	---	---	---	8.16	10.05	10.06
26	---	---	---	---	---	---	---	---	---	8.24	10.05	10.04
27	---	---	---	---	---	---	---	---	---	8.23	10.05	10.19
28	---	---	---	---	---	---	---	---	---	8.23	10.06	10.21
29	---	---	---	---	---	---	---	---	---	8.31	10.05	10.18
30	---	---	---	---	---	---	---	---	---	8.42	10.04	10.22
31	---	---	---	---	---	---	---	---	---	---	10.02	10.30
MEAN	---	---	---	---	---	---	---	---	---	---	10.15	10.22
MAX	---	---	---	---	---	---	---	---	---	---	10.30	10.67
MIN	---	---	---	---	---	---	---	---	---	---	9.99	10.10
*PREC	---	---	---	---	---	---	---	---	---	---	9.19	9.28

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307835 UPPER HIGHLANDS CANAL BELOW CONTROL NEAR PINELLAS PARK, FL

LOCATION.--Lat 27°52'19", long 82°41'23" (1983 North American datum), in NW¹/₄ sec.15, T.30 S., R.16E., Pinellas County, Hydrologic Unit 03100207, on downstream side of a fixed weir, 100 ft north of 110th Avenue, 800 ft east of 43rd Street, and 2.5 mi northeast of Pinellas Park.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June to September 2002.

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

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 10.61 ft, Sept. 5; minimum, 8.68 ft, June 21, 22, Aug. 26, 27.

GAGE HEIGHT, FEET, PERIOD JUNE TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	8.86	8.71	8.90
2	---	---	---	---	---	---	---	---	---	8.88	8.82	8.84
3	---	---	---	---	---	---	---	---	---	8.79	8.91	8.82
4	---	---	---	---	---	---	---	---	---	8.75	8.80	8.77
5	---	---	---	---	---	---	---	---	---	8.84	8.76	9.09
6	---	---	---	---	---	---	---	---	---	8.87	8.74	9.29
7	---	---	---	---	---	---	---	---	---	8.79	8.86	9.03
8	---	---	---	---	---	---	---	---	---	8.76	8.89	8.86
9	---	---	---	---	---	---	---	---	---	8.77	8.80	8.81
10	---	---	---	---	---	---	---	---	---	8.74	8.81	8.80
11	---	---	---	---	---	---	---	---	---	8.82	8.77	8.86
12	---	---	---	---	---	---	---	---	---	8.94	8.75	8.90
13	---	---	---	---	---	---	---	---	---	8.99	8.73	8.86
14	---	---	---	---	---	---	---	---	---	8.85	8.78	8.82
15	---	---	---	---	---	---	---	---	---	8.80	8.84	8.79
16	---	---	---	---	---	---	---	---	---	8.77	8.78	8.78
17	---	---	---	---	---	---	---	---	---	8.75	8.75	8.77
18	---	---	---	---	---	---	---	---	---	8.83	8.74	8.75
19	---	---	---	---	---	---	---	---	---	8.75	8.76	8.77
20	---	---	---	---	---	---	---	---	---	8.72	8.75	8.80
21	---	---	---	---	---	---	---	---	8.70	8.74	8.74	8.81
22	---	---	---	---	---	---	---	---	8.69	8.72	8.71	8.77
23	---	---	---	---	---	---	---	---	8.69	---	8.70	8.75
24	---	---	---	---	---	---	---	---	8.72	---	8.69	8.75
25	---	---	---	---	---	---	---	---	8.78	8.77	8.69	8.81
26	---	---	---	---	---	---	---	---	8.76	8.75	8.69	8.83
27	---	---	---	---	---	---	---	---	8.73	8.78	8.91	8.87
28	---	---	---	---	---	---	---	---	8.73	8.77	8.81	8.87
29	---	---	---	---	---	---	---	---	8.78	8.75	8.76	8.85
30	---	---	---	---	---	---	---	---	8.82	8.72	8.84	8.79
31	---	---	---	---	---	---	---	---	---	8.72	9.01	---
MEAN	---	---	---	---	---	---	---	---	---	---	8.79	8.85
MAX	---	---	---	---	---	---	---	---	---	---	9.01	9.29
MIN	---	---	---	---	---	---	---	---	---	---	8.69	8.75

TAMPA BAY AND COASTAL AREAS

02307836 ROOSEVELT RESERVOIR AT OUTFALL NEAR PINELLAS PARK, FL

LOCATION.--Lat 27°52'17", long 82°41'24" (1983 North American datum), in SW $\frac{1}{4}$ sec.15, T.30 S., R.16E., Pinellas County, Hydrologic Unit 03100207, on north shore on the upstream side of the outfall structure, 500 ft south of 110th Avenue, 800 ft east of 43rd Street, and 2.5 mi northeast of Pinellas Park.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June to September 2002.

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

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 11.11 ft, Sept. 5; minimum, 10.00 ft, Aug. 1, 2.

GAGE HEIGHT, FEET, PERIOD JUNE TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	10.18	10.01	10.21
2	---	---	---	---	---	---	---	---	---	10.23	10.11	10.17
3	---	---	---	---	---	---	---	---	---	10.12	10.26	10.17
4	---	---	---	---	---	---	---	---	---	10.08	10.14	10.10
5	---	---	---	---	---	---	---	---	---	10.18	10.09	10.29
6	---	---	---	---	---	---	---	---	---	10.24	10.07	10.63
7	---	---	---	---	---	---	---	---	---	10.13	10.15	10.35
8	---	---	---	---	---	---	---	---	---	10.09	10.20	10.19
9	---	---	---	---	---	---	---	---	---	10.10	10.11	10.14
10	---	---	---	---	---	---	---	---	---	10.07	10.12	10.15
11	---	---	---	---	---	---	---	---	---	10.14	10.08	10.21
12	---	---	---	---	---	---	---	---	---	10.26	10.06	10.30
13	---	---	---	---	---	---	---	---	---	10.31	10.05	10.25
14	---	---	---	---	---	---	---	---	---	10.17	10.07	10.19
15	---	---	---	---	---	---	---	---	---	10.10	10.16	10.15
16	---	---	---	---	---	---	---	---	---	10.07	10.09	10.12
17	---	---	---	---	---	---	---	---	---	10.06	10.06	10.11
18	---	---	---	---	---	---	---	---	---	10.05	10.06	10.09
19	---	---	---	---	---	---	---	---	10.13	10.06	10.11	10.10
20	---	---	---	---	---	---	---	---	10.07	10.04	10.13	10.16
21	---	---	---	---	---	---	---	---	10.04	10.02	10.08	10.17
22	---	---	---	---	---	---	---	---	10.03	10.01	10.07	10.12
23	---	---	---	---	---	---	---	---	10.02	---	10.05	10.10
24	---	---	---	---	---	---	---	---	10.04	---	10.04	10.09
25	---	---	---	---	---	---	---	---	10.10	10.04	10.03	10.09
26	---	---	---	---	---	---	---	---	10.11	10.04	10.03	10.09
27	---	---	---	---	---	---	---	---	10.07	10.06	10.22	10.12
28	---	---	---	---	---	---	---	---	10.07	10.09	10.16	10.10
29	---	---	---	---	---	---	---	---	10.12	10.07	10.10	10.10
30	---	---	---	---	---	---	---	---	10.17	10.05	10.15	10.10
31	---	---	---	---	---	---	---	---	---	10.03	10.25	---
MEAN	---	---	---	---	---	---	---	---	---	---	10.11	10.17
MAX	---	---	---	---	---	---	---	---	---	---	10.26	10.63
MIN	---	---	---	---	---	---	---	---	---	---	10.01	10.09

WATER RESOURCES DATA FOR FLORIDA, 2002
Volume 3A: Southwest Florida Surface Water

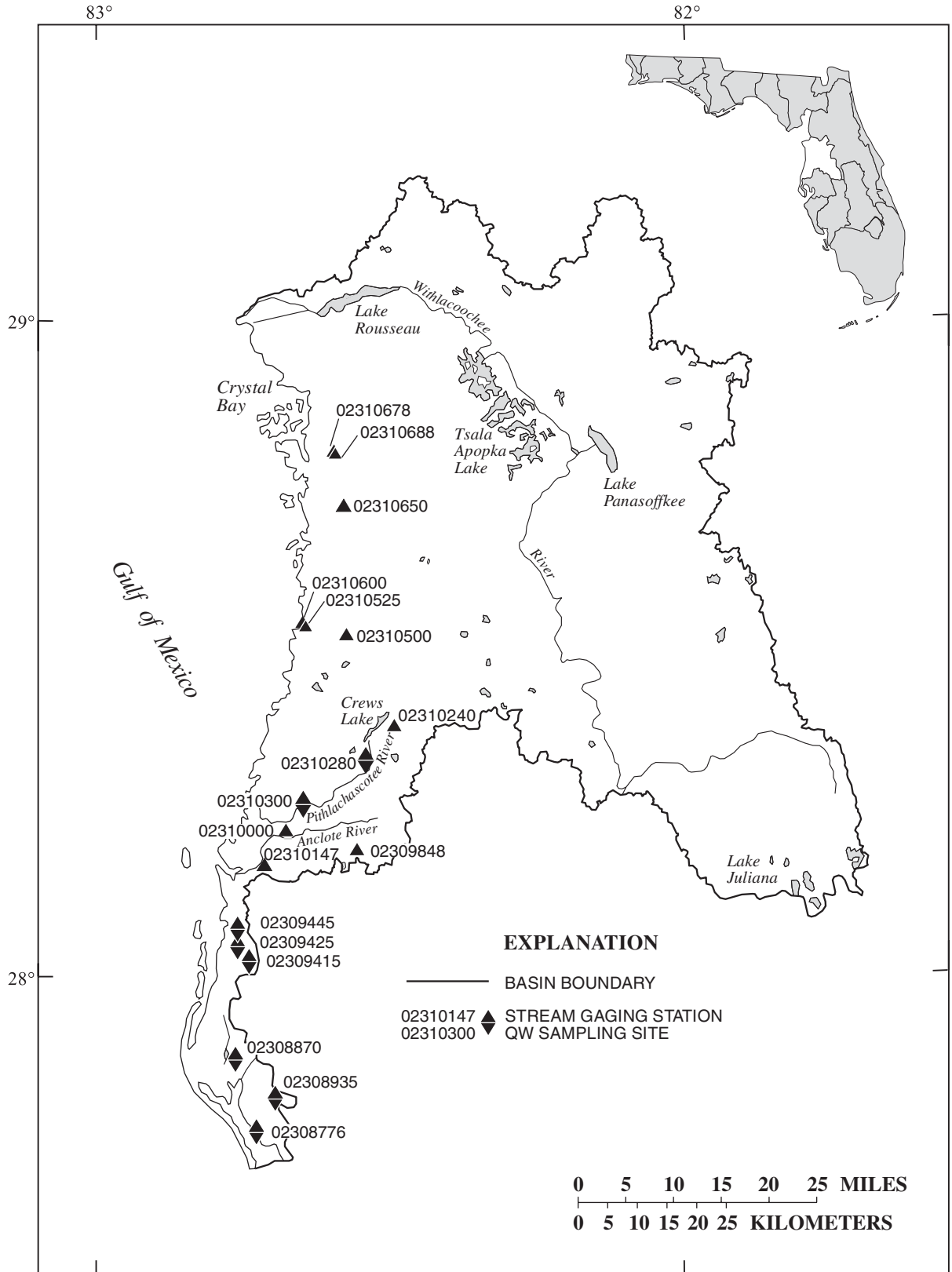


Figure 17.--Location of stream gaging stations in the Coastal area from Tampa Bay to Withlacoochee River.

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02308776 BEAR CREEK AT MANGO AVENUE AT GULFPORT, FL

LOCATION.--Lat 27°45'44", long 82°43'40" (1927 North American datum), in NW¹/₄ sec.29, T.31 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, on Mango Avenue, 0.8 mi north of Gulfport, 3.0 mi northeast of Largo, and 3.1 mi upstream from mouth.

DRAINAGE AREA.--3.43 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--June 2000 to current year (gage heights only).

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 2.00 ft below North American Vertical Datum of 1988.

REMARKS.--Records fair.

GAGE HEIGHT, FEET, PERIOD JUNE TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	0.19	0.25	0.17
2	---	---	---	---	---	---	---	---	---	-0.05	0.17	0.19
3	---	---	---	---	---	---	---	---	---	-0.10	0.05	0.27
4	---	---	---	---	---	---	---	---	---	0.08	-0.03	0.22
5	---	---	---	---	---	---	---	---	---	0.12	-0.09	0.29
6	---	---	---	---	---	---	---	---	---	0.00	0.04	0.27
7	---	---	---	---	---	---	---	---	---	0.09	-0.02	0.36
8	---	---	---	---	---	---	---	---	---	0.24	-0.11	0.04
9	---	---	---	---	---	---	---	---	---	0.02	0.01	0.15
10	---	---	---	---	---	---	---	---	---	0.08	0.07	0.15
11	---	---	---	---	---	---	---	---	---	0.21	0.15	0.09
12	---	---	---	---	---	---	---	---	---	0.05	0.44	0.12
13	---	---	---	---	---	---	---	---	---	0.03	0.19	0.19
14	---	---	---	---	---	---	---	---	---	0.32	0.13	0.38
15	---	---	---	---	---	---	---	---	---	1.20	0.10	0.48
16	---	---	---	---	---	---	---	---	---	0.41	-0.05	0.76
17	---	---	---	---	---	---	---	---	---	0.26	0.05	1.90
18	---	---	---	---	---	---	---	---	---	0.07	0.07	0.29
19	---	---	---	---	---	---	---	---	---	0.09	-0.04	0.14
20	---	---	---	---	---	---	---	---	---	0.17	0.02	0.19
21	---	---	---	---	---	---	---	---	---	0.31	-0.04	0.31
22	---	---	---	---	---	---	---	---	---	0.28	-0.19	0.18
23	---	---	---	---	---	---	---	---	---	0.08	-0.19	0.06
24	---	---	---	---	---	---	---	---	---	0.32	0.02	0.06
25	---	---	---	---	---	---	---	---	---	0.19	0.09	0.08
26	---	---	---	---	---	---	---	---	---	0.08	0.26	0.12
27	---	---	---	---	---	---	---	---	---	0.08	0.27	0.00
28	---	---	---	---	---	---	---	---	---	0.22	0.22	0.03
29	---	---	---	---	---	---	---	---	---	-0.12	0.30	0.23
30	---	---	---	---	---	---	---	---	---	0.22	0.31	0.17
31	---	---	---	---	---	---	---	---	---	0.32	0.26	---
MEAN	---	---	---	---	---	---	---	---	---	0.19	0.08	0.24
MAX	---	---	---	---	---	---	---	---	---	1.20	0.44	1.90
MIN	---	---	---	---	---	---	---	---	---	-0.10	-0.19	-0.15
*PREC	---	---	---	---	---	---	---	---	---	---	---	12.12

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
 COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER
 02308776 BEAR CREEK AT MANGO AVENUE AT GULFPORT, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2000.

WATER-QUALITY DATA, PERIOD SEPTEMBER 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Time	GAGE HEIGHT (FEET) (00065)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
------	------	-------------------------------------	--	--	--	---	---	--	--	---	---	--	---

SEP 20...	0920	-.16	2.9	7.7	324	27.0	2.2	5	.76	.10	.27	.06	.103
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Date	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
SEP 20...	6.8

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02308776 BEAR CREEK AT MANGO AVENUE AT GULFPORT, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.03	0.06	-0.43	-0.87	-0.56	-0.45	-0.45	-0.45	-0.21	---	-0.24	0.11
2	-0.08	0.08	-0.40	-0.97	-0.92	-0.25	-0.48	-0.29	-0.10	-0.32	-0.02	0.11
3	-0.04	-0.03	-0.60	-0.98	-0.89	0.12	-0.14	-0.47	-0.20	-0.02	0.35	0.08
4	0.27	0.01	-0.78	-0.91	-0.72	0.19	-0.26	-0.52	-0.15	-0.03	0.35	0.06
5	0.10	0.22	-0.57	-0.48	-0.81	-0.67	-0.28	-0.40	-0.23	-0.05	0.31	0.02
6	0.12	0.43	-0.32	-0.52	-0.72	-0.78	-0.32	-0.33	-0.32	-0.35	0.05	-0.12
7	-0.06	0.32	-0.34	-0.33	-0.66	-0.79	-0.31	-0.30	-0.31	-0.13	-0.25	0.01
8	-0.26	0.47	-0.12	-0.06	-0.70	-0.61	-0.31	-0.32	-0.40	-0.18	-0.28	0.12
9	-0.79	0.64	-0.17	-0.66	-0.66	-0.24	-0.30	-0.17	-0.36	-0.11	-0.05	0.17
10	-0.65	0.36	-0.14	-0.77	-0.70	-0.29	-0.32	-0.06	-0.33	-0.08	-0.13	0.01
11	-0.34	0.00	-0.10	-0.52	-0.77	-0.34	-0.14	-0.11	-0.14	0.02	-0.23	-0.05
12	-0.16	0.02	-0.14	-0.47	-0.72	-0.24	-0.19	-0.11	-0.09	0.00	-0.23	0.19
13	-0.02	0.24	-0.10	-0.70	-0.82	-0.02	-0.18	-0.16	-0.28	-0.02	-0.27	0.08
14	0.19	0.25	-0.21	-0.64	-0.83	-0.46	-0.22	-0.33	-0.38	-0.23	-0.11	0.33
15	0.15	-0.24	-0.28	-0.68	-0.72	-0.11	-0.22	-0.19	-0.52	-0.33	0.07	0.00
16	0.13	0.05	0.03	-0.64	-0.60	-0.13	-0.37	-0.18	-0.56	-0.21	0.16	-0.07
17	0.16	0.04	-0.35	-0.58	-0.55	-0.60	-0.52	-0.27	-0.59	-0.06	0.02	0.08
18	0.07	-0.11	-0.69	-0.47	-0.92	-0.70	-0.93	-0.31	-0.49	-0.06	0.06	0.22
19	0.07	0.23	-0.51	-0.21	-0.55	-0.31	-0.70	-0.32	-0.16	-0.03	0.83	0.30
20	0.17	-0.56	-0.89	-0.78	-0.54	-0.17	-0.41	-0.18	---	-0.09	0.22	0.38
21	0.10	-1.00	-0.66	-0.94	-0.43	-0.54	-0.36	0.00	-0.51	0.14	0.03	0.38
22	0.13	-0.78	-0.81	-0.97	-0.37	-0.83	-0.50	0.01	-0.11	0.59	0.04	0.19
23	-0.11	-0.42	-0.84	-0.98	-0.51	-0.72	-0.36	0.09	0.01	1.43	0.05	0.15
24	-0.23	0.30	-0.91	-0.83	-0.48	-0.56	-0.29	0.01	-0.38	0.34	-0.09	0.41
25	0.05	0.43	-0.85	-0.89	-0.45	-0.47	-0.25	-0.01	-0.50	-0.06	-0.22	0.27
26	0.27	0.00	-0.64	-0.90	-0.52	-0.54	-0.51	0.01	-0.54	-0.18	-0.22	-0.11
27	0.23	-0.31	-0.20	-0.77	-0.67	-0.79	-0.64	-0.06	-0.69	-0.31	-0.16	0.03
28	0.17	-0.40	0.27	-0.72	-0.46	-0.65	-0.29	-0.02	-0.62	-0.46	-0.18	0.26
29	0.27	-0.47	-0.55	-0.49	---	0.53	-0.40	0.05	-0.13	-0.48	-0.17	0.00
30	0.18	-0.57	-0.78	-0.30	---	0.31	-0.46	-0.23	---	-0.35	-0.02	-0.43
31	-0.03	---	-0.98	-0.41	---	-0.12	---	-0.32	---	-0.33	0.06	---
MEAN	0.00	-0.02	-0.45	-0.66	-0.65	-0.36	-0.37	-0.19	---	---	-0.01	0.11
MAX	0.27	0.64	0.27	-0.06	-0.37	0.53	-0.14	0.09	---	---	0.83	0.41
MIN	-0.79	-1.00	-0.98	-0.98	-0.92	-0.83	-0.93	-0.52	---	---	-0.28	-0.43
*PREC	0.09	2.79	1.45	1.73	0.87	9.15	0.06	0.00	6.89	7.89	3.00	12.92

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02308776 BEAR CREEK AT MANGO AVENUE AT GULFPORT, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	GAGE HEIGHT (FEET) (00065)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDE (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT													
25...	0845	.02	3.6	7.4	3190	23.3	1.0	4	.96	.11	.43	.03	.051
FEB													
26...	0940	-1.10	.7	6.5	3990	23.4	.7	5	.60	.07	.24	.03	.060
MAR													
06...	0817	-1.03	2.5	6.8	519	17.9	2.8	7	1.2	.26	.11	.14	.200
APR													
10...	0924	-.69	3.1	6.6	1890	23.6	.8	5	.75	.21	.25	.08	.090
JUN													
26...	0800	-.43	1.9	6.9	735	27.1	2.6	6	1.4	.34	.13	.13	.180
JUL													
31...	0801	.42	2.5	6.9	1490	27.6	1.6	4	1.0	.17	.27	.07	.100
AUG													
14...	0800	.85	1.2	6.9	8340	31.3	1.1	10	1.0	.22	.26	E.12	.066
22...	0736	-.41	.8	7.1	24600	31.2	2.3	18	.80	.180	.180	.09	.086
SEP													
04...	0823	-.48	1.2	6.6	6330	28.3	1.1	6	.80	.150	.300	.06	.058
26...	0825	.49	2.5	6.8	646	26.1	1.3	<1	.80	.20	.26	E.08	E.029

Date	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
OCT	
25...	<.1
FEB	
26...	<.1
MAR	
06...	1.3
APR	
10...	.7
JUN	
26...	5.4
JUL	
31...	4.3
AUG	
14...	<.1
22...	10.0
SEP	
04...	<.1
26...	2.9

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02308776 BEAR CREEK AT MANGO AVENUE AT GULFPORT, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-0.42	0.12	-0.17	-0.47	-0.57	-0.61	-0.20	-0.10	-0.12	0.14	-0.03	0.25
2	-0.24	0.19	-0.33	-0.02	-0.69	0.36	-0.19	-0.11	-0.18	-0.21	0.72	0.38
3	0.02	0.28	-0.35	-0.47	-0.69	0.19	-0.20	-0.18	-0.19	-0.30	0.47	1.05
4	0.20	-0.07	-0.46	-0.95	-0.90	-0.93	-0.41	-0.28	-0.23	-0.28	0.15	1.16
5	0.31	-0.17	-0.42	-0.55	-0.78	-1.01	-0.69	-0.35	-0.07	-0.33	-0.04	1.01
6	0.29	-0.06	-0.36	0.18	-0.04	-0.80	-0.73	-0.38	-0.05	-0.26	-0.05	0.88
7	0.07	-0.03	-0.28	-0.79	0.05	-0.46	-0.60	-0.30	-0.06	-0.18	0.26	0.91
8	-0.28	0.11	0.08	-0.96	-0.57	-0.46	-0.13	-0.20	0.25	-0.21	-0.04	0.71
9	-0.48	0.03	-0.16	-0.77	-0.52	-0.56	0.09	-0.05	-0.08	0.13	-0.04	0.22
10	-0.22	0.00	-0.10	-0.47	-0.49	-0.91	-0.25	-0.12	-0.06	0.08	-0.05	0.29
11	0.13	0.22	-0.15	-0.51	-0.73	-0.67	-0.25	-0.20	-0.02	0.15	0.0	0.38
12	0.51	0.00	-0.21	-0.36	-0.62	-0.28	-0.13	-0.12	0.60	0.35	0.04	0.62
13	0.93	-0.19	-0.16	-0.48	-0.69	-0.34	-0.14	-0.03	-0.04	0.69	0.12	0.32
14	0.83	-0.28	-0.06	-0.22	-0.79	-0.55	-0.17	-0.09	0.33	-0.03	0.19	0.32
15	0.17	-0.24	-0.16	-0.55	-0.60	-0.56	-0.26	-0.49	0.42	-0.25	0.18	0.14
16	0.06	-0.39	-0.25	-0.75	-0.61	-0.50	-0.34	-0.41	0.16	-0.30	0.02	0.05
17	-0.35	-0.50	-0.06	-0.74	-0.73	-0.56	-0.26	-0.05	0.16	-0.21	0.11	0.21
18	-0.41	-0.39	-0.13	-0.71	-0.80	-0.53	-0.33	0.05	0.26	-0.17	0.06	0.09
19	-0.15	-0.17	-0.16	-0.52	-0.43	-0.53	-0.33	-0.12	-0.10	0.00	0.07	0.14
20	0.12	0.09	-0.60	-0.60	0.08	-0.27	-0.37	-0.56	-0.40	0.01	0.11	0.46
21	0.61	0.11	-0.75	-0.57	-0.11	-0.25	-0.26	-0.71	-0.21	-0.08	0.19	0.89
22	0.25	0.13	-0.42	-0.70	-0.22	-0.77	-0.35	-0.88	0.13	0.08	0.05	0.65
23	0.41	0.15	0.22	-0.54	-0.49	-0.59	-0.37	-0.64	0.11	-0.01	0.02	0.92
24	0.52	0.18	-0.05	-0.30	-0.46	-0.31	-0.38	-0.21	0.05	0.00	0.13	0.65
25	0.37	-0.09	-0.31	-0.43	-0.36	-0.20	-0.20	0.00	0.06	-0.05	0.44	0.85
26	-0.33	-0.18	-0.61	-0.46	-0.16	-0.34	-0.21	0.15	0.02	-0.14	0.19	1.25
27	-0.77	-0.05	-0.24	-0.48	-0.56	-0.51	-0.15	0.04	-0.06	-0.08	0.37	0.61
28	-0.64	0.0	0.09	-0.45	-0.75	-0.59	-0.09	0.03	-0.02	-0.13	0.30	0.21
29	-0.61	0.13	0.17	-0.43	---	-0.55	-0.13	0.10	-0.13	-0.01	0.13	-0.02
30	-0.44	0.05	-0.23	-0.47	---	-0.37	-0.14	0.07	-0.23	-0.05	0.09	0.04
31	-0.13	---	-0.29	-0.40	---	-0.07	---	0.10	---	-0.08	0.44	---
MEAN	0.01	-0.03	-0.22	-0.51	-0.51	-0.47	-0.27	-0.19	0.01	-0.06	0.15	0.52
MAX	0.93	0.28	0.22	0.18	0.08	0.36	0.09	0.15	0.60	0.69	0.72	1.25
MIN	-0.77	-0.50	-0.75	-0.96	-0.90	-1.01	-0.73	-0.88	-0.40	-0.33	-0.05	-0.02
*PREC	3.20	0.23	0.92	2.93	3.84	0.69	2.00	---	9.83	12.56	15.91	---

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02308776 BEAR CREEK AT MANGO AVENUE AT GULFPORT, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT													
30...	0839	-.49	5.1	7.4	493	21.0	.8	<1	E.70	.12	.46	E.04	E.020
NOV													
19...	0758	-1.09	4.0	8.0	10000	22.5	1.4	4	E.80	.15	.46	.04	E.042
DEC													
11...	0801	-.37	3.4	6.2	4910	24.0	.6	6	E.70	.18	.36	.05	E.037
JAN													
30...	0815	-1.12	4.8	6.6	4800	22.8	.3	<1	.90	.11	.39	.05	.041
APR													
03...	0834	-.22	3.5	6.5	23800	24.2	1.2	4	.60	.15	.14	.06	.072
29...	0903	-.22	1.4	6.5	27100	28.4	2.1	5	.70	.16	.11	.07	.096
JUN													
25...	0818	.23	.7	6.3	14000	27.1	1.8	4	.90	.31	.05	.17	.208
JUL													
31...	0854	.21	.7	6.2	19500	28.4	1.9	2	1.0	.22	.15	.08	.087
AUG													
12...	0903	-.68	3.3	6.1	459	27.5	1.5	<1	.90	.18	.24	.08	.106
28...	0915	.27	7.3	6.8	117	25.8	1.5	8	.50	.03	.12	.05	.085
SEP													
11...	0808	-.08	6.4	6.4	3790	26.5	.8	6	1.0	.23	.30	.06	.102
23...	0903	.03	3.1	6.2	343	24.7	2.2	4	.80	.12	.31	.06	.073

CHLOR-A
PHYTO-
PLANK-
TON
CHROMO
FLUOROM
(UG/L)
(70953)

Date	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
OCT	
30...	2.4
NOV	
19...	2.3
DEC	
11...	<.1
JAN	
30...	<.1
APR	
03...	1.3
29...	2.5
JUN	
25...	2.5
JUL	
31...	7.4
AUG	
12...	7.5
28...	8.5
SEP	
11...	5.2
23...	11.1

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02308870 PINEBROOK CANAL AT BRYAN DAIRY ROAD AT PINELLAS PARK, FL

LOCATION.--Lat 27°52'19", long 82°44'14" (1927 North American datum), in SE¹/₄ sec.18, T.30 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, on right bank, 75 ft above culvert on Bryan Dairy Road, 0.5 mi west of 66th Street North, and 0.6 mi south of Pinellas Park.
DRAINAGE AREA.--2.51 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	e13	3.2
2	---	---	---	---	---	---	---	---	---	---	e12	3.0
3	---	---	---	---	---	---	---	---	---	---	e19	2.6
4	---	---	---	---	---	---	---	---	---	---	e9.3	2.3
5	---	---	---	---	---	---	---	---	---	---	2.8	2.0
6	---	---	---	---	---	---	---	---	---	---	14	60
7	---	---	---	---	---	---	---	---	---	---	9.8	199
8	---	---	---	---	---	---	---	---	---	---	3.9	54
9	---	---	---	---	---	---	---	---	---	---	6.9	19
10	---	---	---	---	---	---	---	---	---	---	6.1	11
11	---	---	---	---	---	---	---	---	---	---	4.4	7.7
12	---	---	---	---	---	---	---	---	---	---	8.8	5.9
13	---	---	---	---	---	---	---	---	---	---	10	4.4
14	---	---	---	---	---	---	---	---	---	---	11	8.9
15	---	---	---	---	---	---	---	---	---	---	17	7.3
16	---	---	---	---	---	---	---	---	---	---	5.4	2.5
17	---	---	---	---	---	---	---	---	---	---	e6.4	1.9
18	---	---	---	---	---	---	---	---	---	---	e47	2.9
19	---	---	---	---	---	---	---	---	---	---	29	5.2
20	---	---	---	---	---	---	---	---	---	---	11	30
21	---	---	---	---	---	---	---	---	---	---	13	26
22	---	---	---	---	---	---	---	---	---	---	109	9.6
23	---	---	---	---	---	---	---	---	---	---	63	5.3
24	---	---	---	---	---	---	---	---	---	---	16	3.5
25	---	---	---	---	---	---	---	---	---	---	10	3.3
26	---	---	---	---	---	---	---	---	---	---	7.6	3.6
27	---	---	---	---	---	---	---	---	---	---	6.3	8.6
28	---	---	---	---	---	---	---	---	---	---	6.3	4.6
29	---	---	---	---	---	---	---	---	---	---	4.8	7.5
30	---	---	---	---	---	---	---	---	---	---	3.7	3.4
31	---	---	---	---	---	---	---	---	---	---	3.0	---
TOTAL	---	---	---	---	---	---	---	---	---	---	489.5	508.2
MEAN	---	---	---	---	---	---	---	---	---	---	15.8	16.9
MAX	---	---	---	---	---	---	---	---	---	---	109	199
MIN	---	---	---	---	---	---	---	---	---	---	2.8	1.9
MED	---	---	---	---	---	---	---	---	---	---	9.8	5.3
AC-FT	---	---	---	---	---	---	---	---	---	---	971	1010
CFSM	---	---	---	---	---	---	---	---	---	---	6.29	6.75
IN.	---	---	---	---	---	---	---	---	---	---	7.25	7.53
*PREC	---	---	---	---	---	---	---	---	---	---	---	9.16

e Estimated

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

	1999	1999
MEAN	15.8	16.9
MAX (WY)	15.8	16.9
MIN (WY)	15.8	16.9
	1999	1999
	15.8	16.9
	1999	1999

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02308870 PINEBROOK CANAL AT BRYAN DAIRY ROAD AT PINELLAS PARK, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 1999.

WATER-QUALITY DATA, PERIOD AUGUST TO SEPTEMBER 1999

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDE (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
AUG 18...	1030	1.59	18	3.1	7.2	325	27.9	2.0	<1	.59	.08	.16	.07
SEP 08...	1145	1.97	54	4.2	7.9	277	26.4	3.2	8	.87	.15	.19	.11

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
AUG 18...	.11
SEP 08...	.14

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02308870 PINEBROOK CANAL AT BRYAN DAIRY ROAD AT PINELLAS PARK, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1.8	0.30	0.62	2.8	0.59	0.15	0.03	0.00	6.7	46	0.88
2	2.5	7.2	0.20	0.59	0.76	0.56	0.13	0.03	0.00	2.4	16	0.51
3	4.5	0.46	0.20	0.61	0.59	0.57	0.12	0.03	0.00	1.2	9.8	0.28
4	8.9	0.23	0.20	0.70	0.60	0.54	0.13	0.03	0.00	0.91	5.2	0.25
5	24	0.26	0.21	0.70	0.65	0.43	0.12	0.03	0.00	10	3.4	11
6	13	0.42	0.80	0.73	0.52	0.43	0.11	0.03	0.00	6.3	2.0	4.5
7	15	0.51	0.82	2.2	0.57	0.42	0.14	0.02	0.00	1.7	1.8	0.82
8	6.2	0.58	0.34	0.90	0.47	0.42	0.19	0.02	0.00	5.0	1.2	0.45
9	5.2	0.51	0.30	0.64	0.48	0.33	0.24	0.03	0.00	2.7	1.0	0.42
10	e3.3	0.43	0.30	2.2	0.42	0.22	0.14	0.04	0.00	0.92	0.92	0.38
11	e2.5	0.53	0.30	1.6	0.42	0.25	0.14	0.06	0.29	0.76	0.77	0.43
12	1.9	0.59	0.30	0.77	0.48	0.24	0.15	0.06	4.1	0.55	21	0.79
13	2.5	0.60	0.30	0.52	0.53	0.20	0.18	0.05	0.73	1.6	21	0.83
14	2.4	0.59	1.7	0.30	1.8	0.21	4.1	0.05	0.18	5.8	7.0	2.5
15	2.4	0.59	0.38	0.17	1.9	0.21	1.3	0.03	0.11	123	14	0.52
16	3.1	0.59	0.32	0.25	0.65	0.22	0.53	0.02	0.07	22	7.5	7.7
17	2.3	0.40	0.44	0.36	0.52	0.37	0.39	0.02	0.80	8.3	2.9	113
18	1.9	0.30	8.2	0.42	0.49	0.36	0.25	0.01	2.5	4.1	1.6	17
19	1.9	0.30	3.1	0.42	0.42	0.28	0.20	0.00	5.0	9.5	1.3	36
20	1.9	0.35	0.95	0.45	0.38	0.39	0.17	0.01	13	45	5.0	29
21	4.6	0.42	1.0	0.35	0.34	0.25	0.15	0.02	1.2	6.2	1.2	8.9
22	2.3	0.45	1.4	0.25	0.30	0.21	0.13	0.02	0.50	5.8	3.1	4.5
23	1.3	0.42	1.3	0.33	0.33	0.18	0.09	0.02	0.36	2.4	1.4	2.9
24	1.1	0.47	0.97	7.3	0.35	0.15	0.09	0.02	0.28	37	0.87	1.8
25	0.86	1.2	1.1	0.71	0.40	0.15	0.17	0.03	0.37	17	0.70	1.6
26	0.80	0.53	0.97	0.27	0.42	0.19	0.13	0.03	1.1	7.6	4.8	1.3
27	0.81	0.41	1.1	0.18	0.44	4.2	0.07	0.03	0.78	3.5	7.1	3.2
28	0.71	0.35	2.5	0.15	0.50	1.4	0.07	0.02	0.45	13	1.3	5.5
29	0.73	0.30	1.1	0.15	0.59	0.50	0.07	0.0	3.2	20	1.1	1.2
30	0.61	0.32	0.80	0.18	---	0.34	0.06	0.00	4.3	14	0.73	0.72
31	0.59	---	0.70	5.7	---	0.26	---	0.00	---	49	0.57	---
TOTAL	122.61	22.11	32.60	30.72	19.12	15.07	9.91	0.78	39.32	393.94	188.86	258.88
MEAN	3.96	0.74	1.05	0.99	0.66	0.49	0.33	0.025	1.31	12.7	6.09	8.63
MAX	24	7.2	8.2	7.3	2.8	4.2	4.1	0.06	13	123	46	113
MIN	0.59	0.23	0.20	0.15	0.30	0.15	0.06	0.00	0.00	0.55	0.57	0.25
MED	2.4	0.45	0.80	0.52	0.49	0.33	0.14	0.03	0.33	5.8	1.8	1.4
AC-FT	243	44	65	61	38	30	20	1.5	78	781	375	513
CFSM	1.58	0.29	0.42	0.39	0.26	0.19	0.13	0.01	0.52	5.06	2.43	3.44
IN.	1.82	0.33	0.48	0.46	0.28	0.22	0.15	0.01	0.58	5.84	2.80	3.84
*PREC	- -	0.76	1.29	1.72	0.34	0.49	0.57	0.00	4.39	15.27	4.19	8.65

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000
MEAN	3.96	0.74	1.05	0.99	0.66	0.49	0.33	0.025	1.31	12.7	10.9	12.8
MAX	3.96	0.74	1.05	0.99	0.66	0.49	0.33	0.025	1.31	12.7	15.8	16.9
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999
MIN	3.96	0.74	1.05	0.99	0.66	0.49	0.33	0.025	1.31	12.7	6.09	8.63
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS

FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL TOTAL	1133.92	
ANNUAL MEAN	3.10	3.10
HIGHEST ANNUAL MEAN		3.10 2000
LOWEST ANNUAL MEAN		3.10 2000
HIGHEST DAILY MEAN	123	Jul 15 199
LOWEST DAILY MEAN	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	May 29
MAXIMUM PEAK FLOW	408	Jul 15 904
MAXIMUM PEAK STAGE	3.69	Jul 15 5.04
ANNUAL RUNOFF (AC-FT)	2250	2240
ANNUAL RUNOFF (CFSM)	1.23	1.23
ANNUAL RUNOFF (INCHES)	16.81	16.77
10 PERCENT EXCEEDS	6.8	6.8
50 PERCENT EXCEEDS	0.56	0.56
90 PERCENT EXCEEDS	0.04	0.04

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02308870 PINEBROOK CANAL AT BRYAN DAIRY ROAD AT PINELLAS PARK, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
27...	1240	1.41	1.1	7.4	8.0	786	23.0	2.0	<1	.89	.03	<.02	.01
DEC													
02...	1230	1.36	.20	9.1	8.4	816	15.6	2.6	<1	.67	.04	<.02	.02
28...	1218	1.45	4.2	9.3	7.5	706	17.7	2.1	14	.76	.02	<.02	.05
JAN													
19...	1115	1.37	.42	9.5	7.8	789	18.7	2.6	40	1.2	<.01	<.02	<.01
25...	0855	1.37	.71	8.4	8.3	719	14.7	2.7	27	1.1	.06	.03	.04
FEB													
16...	1238	1.36	.59	8.7	8.3	670	20.9	1.8	7	.56	.02	<.02	.02
MAR													
22...	1150	1.33	.21	9.9	8.2	832	21.5	1.1	<1	.74	.03	<.02	.02
JUN													
21...	1145	1.38	1.2	8.0	8.0	419	31.5	3.4	18	1.3	.08	.16	.11
JUL													
17...	1142	1.47	8.3	4.7	7.9	476	29.2	1.9	21	1.2	.33	.27	.10
AUG													
16...	0940	1.48	8.3	3.9	7.0	449	28.6	1.9	10	1.0	.20	.18	.09
SEP													
20...	1110	1.67	23	5.3	7.7	329	26.9	2.0	14	.99	.12	.25	.11

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
27...	.07
DEC	
02...	.04
28...	.08
JAN	
19...	.10
25...	.13
FEB	
16...	.05
MAR	
22...	.03
JUN	
21...	.22
JUL	
17...	.18
AUG	
16...	.149
SEP	
20...	.190

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02308870 PINEBROOK CANAL AT BRYAN DAIRY ROAD AT PINELLAS PARK, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.65	0.31	0.81	0.81	e12	1.4	13	0.07	2.4	49	0.33	0.17
2	0.51	0.30	0.80	e0.82	e4.0	1.4	5.9	0.05	1.4	23	6.8	0.08
3	0.50	0.30	0.75	e0.81	e5.0	1.3	2.7	0.06	0.12	8.8	8.2	0.07
4	0.58	0.31	0.76	e0.83	e6.8	27	1.9	0.07	0.09	13	0.87	3.6
5	0.59	0.30	0.59	e0.85	e4.0	13	1.1	0.03	0.14	3.9	0.73	53
6	0.59	0.30	0.59	e0.84	e3.0	9.4	1.1	0.07	0.23	1.4	1.7	21
7	0.54	0.35	0.58	e0.82	e2.8	6.0	1.1	0.06	0.88	1.5	0.30	7.5
8	0.44	0.38	0.59	e8.0	e2.7	5.4	0.59	0.06	0.12	1.0	0.19	32
9	0.23	0.32	0.65	e3.0	e2.5	4.8	0.59	0.07	0.10	1.3	3.6	20
10	0.22	5.3	0.79	e2.2	e2.4	5.4	0.58	0.10	0.08	23	0.56	16
11	0.28	1.6	1.3	e1.8	e2.2	4.3	0.35	0.11	0.06	25	0.28	3.6
12	0.33	0.81	5.9	e3.2	e2.0	3.9	0.33	0.12	0.06	12	0.15	1.4
13	0.57	0.60	1.3	e2.1	e1.9	5.0	0.29	0.11	0.07	13	0.17	6.0
14	0.58	8.7	0.66	e1.7	e1.8	6.3	0.20	0.10	0.09	6.7	0.13	194
15	0.58	1.2	0.59	e1.6	e1.7	3.5	0.17	0.10	0.10	1.6	0.10	53
16	0.59	0.59	0.56	e1.4	e1.6	3.7	0.15	0.10	0.10	14	0.16	11
17	0.60	0.45	9.1	e1.3	1.5	4.1	0.09	0.14	0.09	9.4	0.09	6.1
18	0.59	0.45	1.3	e1.5	1.4	3.4	0.07	0.17	0.09	1.7	0.08	2.7
19	0.58	0.52	1.0	e1.7	1.4	17	0.07	0.12	2.7	0.82	0.07	0.74
20	0.59	0.46	0.96	e2.0	1.4	13	0.08	0.15	0.61	0.50	0.08	0.42
21	0.92	0.42	0.60	e1.8	1.5	6.6	0.08	0.15	19	4.3	0.07	0.34
22	0.50	0.41	0.59	e1.7	1.9	3.8	0.07	0.16	15	17	0.07	0.41
23	0.39	0.46	0.59	e1.5	1.7	3.2	0.07	0.18	12	21	0.07	0.42
24	0.32	0.42	0.64	e1.3	1.4	3.0	0.07	0.14	8.3	16	0.07	1.2
25	0.31	8.8	0.64	e1.4	1.5	3.3	0.08	0.13	2.5	2.4	0.07	5.3
26	0.32	9.8	0.65	e1.5	1.4	2.9	0.07	0.15	1.1	13	0.06	2.3
27	0.33	3.7	0.80	e1.4	1.4	2.3	0.06	0.12	90	19	0.06	2.1
28	0.34	1.5	6.1	e1.3	1.4	2.1	0.07	0.10	70	2.6	0.24	1.3
29	0.34	1.2	2.5	e1.5	---	25	0.06	0.12	35	0.53	5.4	0.68
30	0.37	0.98	1.2	e1.3	---	26	0.05	0.19	16	0.38	6.1	0.42
31	0.37	---	1.0	e1.2	---	18	---	0.15	---	0.36	2.1	---
TOTAL	14.65	51.24	44.89	53.18	74.3	235.5	31.04	3.45	278.43	307.19	38.90	446.85
MEAN	0.47	1.71	1.45	1.72	2.65	7.60	1.03	0.11	9.28	9.91	1.25	14.9
MAX	0.92	9.8	9.1	8.0	12	27	13	0.19	90	49	8.2	194
MIN	0.22	0.30	0.56	0.81	1.4	1.3	0.05	0.03	0.06	0.36	0.06	0.07
MED	0.50	0.46	0.76	1.5	1.9	4.3	0.16	0.11	0.42	6.7	0.17	2.5
AC-FT	29	102	89	105	147	467	62	6.8	552	609	77	886
CFSM	0.19	0.68	0.58	0.68	1.06	3.03	0.41	0.04	3.70	3.95	0.50	5.93
IN.	0.22	0.76	0.67	0.79	1.10	3.49	0.46	0.05	4.13	4.55	0.58	6.62
*PREC	0.06	2.43	1.79	0.98	0.86	6.15	0.02	0.00	10.18	9.84	3.70	10.77

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	2000	2001	2001	2001	2001	2001	2001	2001	2001	2001	1999	2000
MEAN	2.21	1.22	1.25	1.35	1.64	4.04	0.68	0.068	5.30	11.3	7.71	13.5
MAX	3.96	1.71	1.45	1.72	2.65	7.60	1.03	0.11	9.28	12.7	15.8	16.9
(WY)	2000	2001	2001	2001	2001	2001	2001	2001	2001	2001	1999	1999
MIN	0.47	0.74	1.05	0.99	0.66	0.49	0.33	0.025	1.31	9.91	1.25	8.63
(WY)	2001	2000	2000	2000	2000	2000	2000	2000	2000	2001	2001	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

ANNUAL TOTAL	1067.38	1579.62	
ANNUAL MEAN	2.92	4.33	3.71
HIGHEST ANNUAL MEAN			4.33
LOWEST ANNUAL MEAN			3.10
HIGHEST DAILY MEAN	123	Jul 15	194
LOWEST DAILY MEAN	0.00	Many Days	0.03
ANNUAL SEVEN-DAY MINIMUM	0.00	May 29	0.06
MAXIMUM PEAK FLOW			684
MAXIMUM PEAK STAGE			5.18
ANNUAL RUNOFF (AC-FT)	2120	3130	2690
ANNUAL RUNOFF (CFSM)	1.16	1.72	1.48
ANNUAL RUNOFF (INCHES)	15.82	23.41	20.09
10 PERCENT EXCEEDS	6.2	11	8.3
50 PERCENT EXCEEDS	0.56	0.83	0.64
90 PERCENT EXCEEDS	0.04	0.08	0.07

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02308870 PINEBROOK CANAL AT BRYAN DAIRY ROAD AT PINELLAS PARK, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDE (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
OCT													
25...	1030	1.34	.31	7.2	8.2	921	22.7	2.8	14	1.3	.02	<.02	.03
FEB													
26...	1140	1.39	1.4	7.6	7.3	871	24.2	1.2	5	.79	.04	<.02	.11
JUN													
26...	0940	1.46	1.1	2.4	7.0	481	27.8	2.2	12	.94	.11	.05	.14
JUL													
31...	0933	1.49	.80	4.0	7.2	513	29.1	1.4	10	1.1	.04	.08	.06
AUG													
14...	0932	1.44	.13	7.2	6.8	641	28.8	1.3	10	.85	.03	.05	.04
22...	0919	1.42	.07	4.2	7.4	803	28.7	1.4	7	.87	.03	<.02	.02
SEP													
04...	1000	1.56	6.3	3.1	6.7	479	28.5	2.6	43	1.0	.060	.060	.06
26...	1020	1.53	1.9	6.0	7.3	732	26.8	1.3	3	1.0	.050	.140	.09

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
25...	.087
FEB	
26...	.130
JUN	
26...	E.196
JUL	
31...	.050
AUG	
14...	.030
22...	.040
SEP	
04...	.038
26...	.088

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02308870 PINEBROOK CANAL AT BRYAN DAIRY ROAD AT PINELLAS PARK, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.36	0.05	0.03	e0.60	0.03	1.6	1.7	0.20	0.07	28	2.9	8.6
2	0.30	0.05	0.02	e10	0.03	1.6	1.8	0.21	0.07	17	32	2.0
3	0.30	0.05	0.02	e5.8	0.03	3.7	20	0.21	0.07	2.4	15	0.95
4	0.30	0.04	0.02	e3.7	0.03	11	15	0.21	0.08	0.66	7.6	0.71
5	0.24	0.03	0.02	e2.8	0.02	3.9	5.2	0.21	0.09	2.0	4.0	84
6	0.42	0.03	0.02	e8.2	0.02	3.1	2.2	0.21	5.4	2.8	2.6	59
7	0.10	0.03	0.02	e4.8	4.2	3.3	1.2	0.22	2.2	4.3	27	19
8	0.09	0.03	0.05	e2.8	0.35	2.9	0.60	0.21	3.4	2.5	19	7.9
9	0.07	0.03	0.03	e2.5	0.07	2.7	0.36	0.24	6.8	5.8	8.2	8.5
10	0.07	0.04	0.02	e2.2	0.06	2.5	0.30	0.33	5.2	4.3	12	16
11	0.07	0.04	0.02	e1.9	0.13	2.4	0.30	0.29	0.77	12	4.4	59
12	0.06	0.05	0.02	e2.0	0.04	2.4	0.70	0.24	0.33	35	2.6	32
13	0.05	0.04	0.02	e5.0	0.03	2.7	0.73	0.23	0.27	72	2.1	18
14	4.1	0.05	0.02	e15	0.03	2.4	0.36	0.29	0.29	16	5.4	8.0
15	1.7	0.07	0.02	e7.9	0.02	2.4	0.35	0.22	1.0	7.9	9.8	3.4
16	0.07	0.07	0.02	e6.0	0.02	2.4	0.30	0.21	0.33	4.8	2.8	1.8
17	0.04	0.05	0.03	e3.6	0.02	2.3	0.30	0.27	12	3.2	1.9	1.3
18	0.02	0.04	e2.7	e3.2	0.02	2.0	0.56	0.21	29	2.4	2.5	1.2
19	0.02	0.13	e1.0	e3.0	0.02	2.3	1.8	2.9	3.0	1.9	27	2.1
20	0.02	0.08	e0.58	e2.8	0.02	2.5	0.51	0.55	0.29	1.7	9.0	4.8
21	17	0.03	0.34	e2.6	0.02	2.5	0.39	0.05	0.19	1.4	13	4.6
22	9.8	0.03	0.30	e2.0	3.0	2.2	0.30	0.04	0.25	1.6	14	1.5
23	0.38	0.03	0.29	e1.7	28	1.9	0.26	0.04	0.20	1.9	2.5	0.77
24	0.14	0.03	e3.4	e1.5	13	2.3	0.26	0.04	0.28	1.4	6.7	1.0
25	9.0	0.03	e1.1	1.7	6.1	2.5	0.25	0.05	0.20	3.2	0.58	1.0
26	0.38	0.03	e1.4	2.3	3.7	2.5	5.8	0.05	0.23	5.7	0.24	1.1
27	0.11	0.07	e1.2	1.8	2.6	2.5	0.91	0.06	0.61	15	57	2.0
28	0.06	0.03	e0.84	1.1	2.0	2.2	0.30	0.07	25	45	15	0.59
29	0.05	0.03	e0.67	0.53	---	1.9	0.20	0.07	24	17	5.2	0.71
30	0.05	0.03	e0.57	0.29	---	1.9	0.21	0.08	21	8.3	9.3	1.4
31	0.05	---	e0.51	0.07	---	1.8	---	0.10	---	4.7	12	---
TOTAL	45.42	1.34	15.30	109.39	63.61	84.3	63.15	8.31	142.62	331.86	333.32	352.93
MEAN	1.47	0.045	0.49	3.53	2.27	2.72	2.10	0.27	4.75	10.7	10.8	11.8
MAX	17	0.13	3.4	15	28	11	20	2.9	29	72	57	84
MIN	0.02	0.03	0.02	0.07	0.02	1.6	0.20	0.04	0.07	0.66	0.24	0.59
MED	0.10	0.04	0.03	2.6	0.03	2.4	0.45	0.21	0.33	4.3	7.6	2.1
AC-FT	90	2.7	30	217	126	167	125	16	283	658	661	700
CFSM	0.58	0.02	0.20	1.41	0.91	1.08	0.84	0.11	1.89	4.27	4.28	4.69
IN.	0.67	0.02	0.23	1.62	0.94	1.25	0.94	0.12	2.11	4.92	4.94	5.23
*PREC	2.88	0.02	0.68	2.21	2.79	0.59	2.30	0.71	6.84	7.47	9.11	7.36

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	1.96	0.83	1.00	2.08	1.85	3.60	1.16	0.13	5.12	11.1	8.47	13.5
MAX	3.96	1.71	1.45	3.53	2.65	7.60	2.11	0.27	9.28	12.7	15.8	16.9
(WY)	2000	2001	2001	2002	2001	2001	2002	2002	2001	2000	1999	1999
MIN	0.47	0.045	0.49	0.99	0.66	0.49	0.33	0.025	1.31	9.91	1.25	10.3
(WY)	2001	2002	2002	2000	2000	2000	2000	2000	2000	2001	2001	2000

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1999 - 2002

ANNUAL TOTAL	1530.90	1551.55		
ANNUAL MEAN	4.19	4.25	3.94	
HIGHEST ANNUAL MEAN			4.33	2001
LOWEST ANNUAL MEAN			3.24	2000
HIGHEST DAILY MEAN	194	Sep 14	84	Sep 5
LOWEST DAILY MEAN	0.02	Oct 18	0.02	Oct 18
ANNUAL SEVEN-DAY MINIMUM	0.02	Dec 10	0.02	Dec 10
MAXIMUM PEAK FLOW			669	Sep 5
MAXIMUM PEAK STAGE			4.46	Sep 5
ANNUAL RUNOFF (AC-FT)	3040	3080	2850	
ANNUAL RUNOFF (CFSM)	1.67	1.69	1.57	
ANNUAL RUNOFF (INCHES)	22.69	23.00	21.32	
10 PERCENT EXCEEDS	12	12	9.6	
50 PERCENT EXCEEDS	0.61	1.0	0.70	
90 PERCENT EXCEEDS	0.04	0.03	0.05	

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02308870 PINEBROOK CANAL AT BRYAN DAIRY ROAD AT PINELLAS PARK, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY PENDED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT 30...	1037	1.42	.05	7.4	7.2	584	19.1	1.1	1	E.70	.02	.09	.07
NOV 19...	0949	1.41	.03	8.1	7.6	819	21.1	1.6	<1	E.80	.04	.03	.04
DEC 11...	1004	1.40	.02	7.9	6.7	967	23.8	1.2	10	E1.0	.05	<.02	.08
JUN 25...	1014	1.46	.15	7.4	6.7	586	29.5	5.8	10	1.3	.03	<.02	.12
JUL 31...	1125	1.50	4.7	4.3	6.2	514	30.8	2.3	3	1.3	.17	.15	.13
AUG 12...	1117	1.49	3.3	4.8	6.0	558	28.8	1.4	5	1.2	.08	.14	.07
AUG 28...	1131	1.66	16	4.0	6.3	429	26.9	1.4	8	.90	.12	.15	.07
SEP 11...	1050	2.44	111	6.0	6.4	384	27.1	1.6	18	1.2	.15	.18	.16
SEP 23...	1125	1.48	.80	6.2	7.0	545	29.3	2.9	13	1.2	.02	.13	.07

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT 30...	E.082
NOV 19...	E.050
DEC 11...	E.130
JUN 25...	.189
JUL 31...	.179
AUG 12...	.115
AUG 28...	.123
SEP 11...	.220
SEP 23...	.118

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02308935 SAINT JOE CREEK AT PINELLAS PARK, FL

LOCATION.--Lat 27°48'50", long 82°41'45" (1927 North American datum), in NW¹/₄ sec.3, T.31 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, near right bank 30 ft upstream from triple box culvert at intersection 46th Avenue North and 46th Street North, 0.7 mi southwest of community hall, 1.0 mi west of U.S. Highway 19, 1.8 mi south of Pinellas Park, and 3.5 mi above mouth.

DRAINAGE AREA.--2.80 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1984 to September 1991; June 2000 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 24.70 ft above National Geodetic Vertical Datum of 1929 (Pinellas County bench mark).

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

DISCHARGE, CUBIC FEET PER SECOND, PERIOD JUNE TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	4.0	5.9	1.9
2	---	---	---	---	---	---	---	---	---	2.4	7.0	1.8
3	---	---	---	---	---	---	---	---	---	1.3	2.8	1.7
4	---	---	---	---	---	---	---	---	---	0.92	1.4	1.6
5	---	---	---	---	---	---	---	---	---	4.8	4.2	1.6
6	---	---	---	---	---	---	---	---	---	3.9	5.1	1.6
7	---	---	---	---	---	---	---	---	---	1.4	1.6	1.7
8	---	---	---	---	---	---	---	---	---	1.5	1.0	2.0
9	---	---	---	---	---	---	---	---	---	1.4	0.81	2.0
10	---	---	---	---	---	---	---	---	---	1.0	0.78	2.0
11	---	---	---	---	---	---	---	---	---	1.0	1.4	2.0
12	---	---	---	---	---	---	---	---	---	1.1	20	1.8
13	---	---	---	---	---	---	---	---	---	0.81	9.4	1.6
14	---	---	---	---	---	---	---	---	---	0.76	2.9	1.6
15	---	---	---	---	---	---	---	---	---	94	3.5	1.7
16	---	---	---	---	---	---	---	---	---	10	2.5	6.3
17	---	---	---	---	---	---	---	---	---	3.0	1.7	43
18	---	---	---	---	---	---	---	---	---	2.0	1.3	9.9
19	---	---	---	---	---	---	---	---	---	31	1.4	6.4
20	---	---	---	---	---	---	---	---	---	5.6	5.3	10
21	---	---	---	---	---	---	---	---	---	2.5	5.2	3.5
22	---	---	---	---	---	---	---	---	---	2.7	2.2	2.9
23	---	---	---	---	---	---	---	---	---	2.5	1.8	2.6
24	---	---	---	---	---	---	---	---	---	7.3	6.0	2.5
25	---	---	---	---	---	---	---	---	---	7.8	21	3.3
26	---	---	---	---	---	---	---	---	---	2.9	7.1	4.0
27	---	---	---	---	---	---	---	---	---	2.0	9.0	7.5
28	---	---	---	---	---	---	---	---	---	1.9	3.9	29
29	---	---	---	---	---	---	---	---	---	1.4	2.6	6.6
30	---	---	---	---	---	---	---	---	---	1.9	2.4	3.4
31	---	---	---	---	---	---	---	---	---	0.97	2.1	---
TOTAL	---	---	---	---	---	---	---	---	---	205.06	143.29	167.5
MEAN	---	---	---	---	---	---	---	---	---	6.61	4.62	5.58
MAX	---	---	---	---	---	---	---	---	---	94	21	43
MIN	---	---	---	---	---	---	---	---	---	0.76	0.78	1.6
AC-FT	---	---	---	---	---	---	---	---	---	407	284	332
CFSM	---	---	---	---	---	---	---	---	---	2.59	1.81	2.19
IN.	---	---	---	---	---	---	---	---	---	2.99	2.09	2.44
*PREC	---	---	---	---	---	---	---	---	---	---	---	4.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	5.30	4.27	2.34	3.08	2.72	4.90	2.09	2.74	3.88	7.82	8.97	11.7					
MAX	15.7	9.06	3.74	5.00	5.50	15.7	3.95	5.41	7.41	13.5	12.9	36.6					
(WY)	1987	1989	1990	1987	1990	1987	1987	1987	1989	1985	1988	1988					
MIN	1.80	1.16	0.82	1.74	1.46	1.83	1.05	0.79	1.74	4.32	4.62	5.25					
(WY)	1985	1991	1991	1985	1991	1990	1989	1985	1988	1986	2000	1986					

SUMMARY STATISTICS

WATER YEARS 1984 - 2000

ANNUAL MEAN	5.35
HIGHEST ANNUAL MEAN	7.91 1987
LOWEST ANNUAL MEAN	3.68 1986
HIGHEST DAILY MEAN	276 Sep 8 1988
LOWEST DAILY MEAN	0.07 Mar 22 1990
ANNUAL SEVEN-DAY MINIMUM	0.32 May 15 1990
ANNUAL RUNOFF (AC-FT)	3880
ANNUAL RUNOFF (CFSM)	2.10
ANNUAL RUNOFF (INCHES)	28.51
10 PERCENT EXCEEDS	10
50 PERCENT EXCEEDS	2.1
90 PERCENT EXCEEDS	1.0

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
 COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER
 02308935 SAINT JOE CREEK AT PINELLAS PARK, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2000.

WATER-QUALITY DATA, PERIOD SEPTEMBER 2000

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDE (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
SEP 20...	1018	1.09	9.0	6.4	8.4	189	27.5	3.4	18	.86	.03	.07	.02

Date
 PHOS-
 PHORUS
 TOTAL
 (MG/L
 AS P)
 (00665)
 SEP
 20... .108

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02308935 SAINT JOE CREEK AT PINELLAS PARK, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.6	1.7	1.8	7.1	2.2	8.2	1.4	0.34	2.9	17	2.1
2	0.90	1.7	1.6	2.0	7.8	2.2	4.5	1.5	0.80	2.0	9.1	2.0
3	1.1	2.1	1.3	1.9	4.5	2.2	2.2	1.5	0.79	2.4	13	2.2
4	1.6	2.2	1.0	1.7	4.2	25	2.0	1.5	0.52	9.8	6.1	29
5	1.8	2.3	1.2	1.1	3.0	12	1.9	1.7	0.29	11	4.0	21
6	2.0	2.1	1.2	1.4	2.5	4.5	1.8	1.6	0.24	3.4	4.7	16
7	2.0	2.2	1.2	1.3	2.1	4.0	1.7	1.2	0.19	2.1	3.2	9.6
8	1.9	2.1	1.3	6.7	2.0	3.3	1.6	1.1	0.15	2.4	2.5	17
9	1.8	1.9	1.4	10	1.9	2.6	1.6	0.92	0.18	1.7	3.7	13
10	1.7	3.0	1.5	3.9	1.9	2.7	1.6	0.89	0.20	1.4	31	10
11	3.3	2.8	1.6	2.5	2.0	2.6	1.6	0.91	0.19	12	14	29
12	3.0	2.1	2.3	2.2	2.0	2.3	1.6	0.90	0.15	7.5	6.2	22
13	1.1	1.8	2.2	2.1	2.0	2.4	1.6	0.92	0.13	2.5	4.5	12
14	1.1	5.3	1.9	2.0	1.9	3.3	1.6	0.88	0.13	9.3	5.5	207
15	1.3	5.8	1.7	1.9	1.9	2.8	1.7	0.67	0.12	4.0	4.2	53
16	2.7	3.2	1.6	1.7	2.0	2.4	e1.8	0.74	0.15	8.5	3.4	17
17	2.5	2.5	2.1	1.7	1.9	2.1	1.7	0.77	0.20	15	2.6	12
18	1.9	2.3	1.9	1.6	1.8	1.9	e1.6	0.76	0.34	5.9	6.0	9.3
19	1.8	1.9	1.8	1.7	1.8	4.6	e1.5	0.60	67	2.7	10	7.8
20	1.7	1.7	1.7	2.5	1.8	7.3	e1.4	0.51	20	2.0	5.9	6.9
21	1.1	1.5	1.4	2.5	2.7	4.2	e1.3	0.42	3.9	2.9	3.5	6.2
22	0.28	1.4	1.3	2.1	2.5	2.8	e1.3	0.52	6.4	54	2.6	5.7
23	1.2	1.4	1.7	1.9	2.2	2.2	1.4	0.60	9.1	12	2.3	5.0
24	2.3	1.5	1.6	1.8	2.0	1.9	1.4	0.50	11	11	4.8	5.7
25	1.8	1.9	1.5	1.8	1.9	1.6	1.4	0.42	3.9	4.5	16	9.8
26	1.7	4.2	1.4	1.8	2.0	1.6	1.5	0.42	2.0	7.4	14	6.1
27	1.7	3.7	1.4	1.7	2.0	1.5	1.4	0.33	1.4	20	6.6	5.0
28	1.3	2.5	2.8	1.6	2.1	1.4	1.2	0.29	1.6	5.8	3.9	4.6
29	0.75	2.1	3.0	1.6	---	37	1.4	0.30	4.9	3.0	4.7	6.0
30	1.2	1.9	2.1	1.8	---	33	1.2	0.29	2.7	12	3.5	4.4
31	1.6	---	1.9	1.8	---	10	---	0.29	---	16	2.6	---
TOTAL	51.93	72.7	52.3	72.1	73.5	189.6	56.7	25.35	139.01	257.1	221.1	556.4
MEAN	1.68	2.42	1.69	2.33	2.62	6.12	1.89	0.82	4.63	8.29	7.13	18.5
MAX	3.3	5.8	3.0	10	7.8	37	8.2	1.7	67	54	31	207
MIN	0.28	1.4	1.0	1.1	1.8	1.4	1.2	0.29	0.12	1.4	2.3	2.0
AC-FT	103	144	104	143	146	376	112	50	276	510	439	1100
CFSM	0.66	0.95	0.66	0.91	1.03	2.40	0.74	0.32	1.82	3.25	2.80	7.27
IN.	0.76	1.06	0.76	1.05	1.07	2.77	0.83	0.37	2.03	3.75	3.23	8.12
*PREC	0.09	1.48	0.64	0.80	0.51	2.08	0.07	0.00	4.32	8.15	2.09	8.44

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001, BY WATER YEAR (WY)

MEAN	4.85	4.04	2.26	2.99	2.71	5.05	2.06	2.50	3.99	7.88	8.77	12.4
MAX	15.7	9.06	3.74	5.00	5.50	15.7	3.95	5.41	7.41	13.5	12.9	36.6
(WY)	1987	1989	1990	1987	1990	1987	1987	1987	1989	1985	1988	1988
MIN	1.68	1.16	0.82	1.74	1.46	1.83	1.05	0.79	1.74	4.32	4.62	5.25
(WY)	2001	1991	1991	1985	1991	1990	1989	1985	1988	1986	2000	1986

SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 1984 - 2001

ANNUAL TOTAL	1767.79	
ANNUAL MEAN	4.84	5.28
HIGHEST ANNUAL MEAN		7.91 1987
LOWEST ANNUAL MEAN		3.68 1986
HIGHEST DAILY MEAN	207	276 Sep 8 1988
LOWEST DAILY MEAN	0.12	0.07 Mar 22 1990
ANNUAL SEVEN-DAY MINIMUM	0.15	0.15 Jun 10 2001
MAXIMUM PEAK FLOW	545	Sep 14
MAXIMUM PEAK STAGE	3.88	Sep 14
ANNUAL RUNOFF (AC-FT)	3510	3820
ANNUAL RUNOFF (CFSM)	1.90	2.07
ANNUAL RUNOFF (INCHES)	25.79	28.12
10 PERCENT EXCEEDS	10	10
50 PERCENT EXCEEDS	2.0	2.1
90 PERCENT EXCEEDS	0.80	1.0

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
 COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER
 02308935 SAINT JOE CREEK AT PINELLAS PARK, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEDED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEDED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
OCT													
25...	0936	.93	1.8	5.0	7.5	348	22.4	2.6	13	1.5	.06	<.02	<.01
JAN													
09...	0813	1.13	12	8.1	7.0	334	13.6	3.0	8	.93	.25	.14	.02
FEB													
26...	1036	.94	2.0	5.5	6.3	369	25.7	1.2	12	.66	.09	.03	.03
MAR													
06...	0908	1.02	4.5	3.5	6.5	295	17.7	2.2	6	1.2	.20	.13	.07
APR													
10...	1010	.93	1.6	3.9	6.3	277	26.5	2.4	8	.95	.07	.06	.06
JUN													
26...	0841	.98	2.0	1.9	6.2	212	27.8	2.5	5	.99	.15	<.02	.09
JUL													
31...	0848	1.16	11	3.2	6.4	197	29.4	2.6	9	.91	.10	.19	.03
AUG													
14...	0844	1.08	6.0	4.3	6.4	230	30.2	2.6	6	.88	.11	.04	.01
22...	0837	1.01	2.8	2.0	6.9	258	28.9	2.0	3	.74	.15	.04	.03
SEP													
04...	0911	1.32	21	4.0	6.4	234	29.4	4.1	9	1.3	.170	.200	.06
26...	0923	1.08	6.1	2.8	6.7	326	26.5	1.7	9	.90	.22	.11	.03

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
25...	.072
JAN	
09...	.070
FEB	
26...	.080
MAR	
06...	.120
APR	
10...	.150
JUN	
26...	.120
JUL	
31...	.060
AUG	
14...	.060
22...	.050
SEP	
04...	.096
26...	.026

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02308935 SAINT JOE CREEK AT PINELLAS PARK, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	2.0	1.4	0.97	1.2	1.9	1.4	1.0	1.5	9.9	3.5	25
2	2.3	2.0	1.4	4.5	1.2	1.7	1.4	0.97	1.3	13	43	51
3	2.8	2.0	1.4	6.7	1.2	1.8	4.7	0.92	1.1	7.5	13	19
4	2.6	2.0	1.2	3.3	1.2	3.2	9.8	0.92	0.99	4.0	9.5	12
5	2.1	2.0	1.0	2.1	1.2	2.7	5.8	0.92	1.1	39	6.1	148
6	2.0	1.9	1.2	1.8	1.2	2.1	3.4	0.85	4.4	15	4.9	91
7	2.0	1.8	1.1	1.7	13	1.9	2.3	0.74	17	6.5	10	21
8	1.9	1.8	2.3	1.6	12	1.7	1.7	0.74	11	4.2	12	12
9	1.8	1.8	2.0	1.5	5.7	1.7	1.4	0.64	5.2	9.4	7.5	9.5
10	1.7	1.2	1.8	1.4	3.3	1.7	1.3	0.29	2.4	13	23	13
11	1.8	0.63	1.5	1.4	2.6	1.5	1.1	0.21	1.7	14	7.6	19
12	1.7	1.1	1.3	1.3	2.1	1.4	1.2	0.19	1.3	18	5.4	21
13	1.6	1.3	1.1	1.5	1.7	1.6	1.7	0.20	1.0	30	4.3	19
14	2.1	1.6	1.0	4.6	1.7	1.4	1.6	0.20	0.99	10	7.2	13
15	3.8	1.6	1.0	12	1.6	1.4	1.4	0.15	0.95	6.4	15	9.0
16	2.8	1.6	1.0	4.1	1.3	1.4	1.2	0.14	0.92	4.7	6.2	7.6
17	2.2	1.7	1.0	2.3	1.3	1.3	2.9	17	1.8	3.8	11	7.3
18	2.0	1.8	1.8	1.7	1.3	1.1	5.5	5.4	23	4.0	14	13
19	2.0	1.8	1.8	1.5	1.1	0.92	3.8	7.4	8.8	7.5	7.3	7.7
20	2.0	1.5	1.5	1.6	1.1	1.1	2.6	5.4	3.5	4.2	7.0	7.9
21	9.9	1.4	1.2	1.6	1.1	1.4	1.4	2.4	2.1	2.0	7.3	14
22	15	e1.6	1.0	1.4	2.4	1.2	1.0	1.6	1.7	2.4	5.0	9.2
23	6.1	1.6	0.92	1.4	14	1.1	1.2	1.1	2.0	2.4	3.8	8.4
24	4.0	1.7	1.2	1.4	12	0.72	1.4	1.1	3.4	2.4	3.3	7.0
25	14	1.6	1.4	1.4	6.0	0.98	1.1	1.1	4.5	2.4	3.8	8.1
26	6.9	1.5	1.7	1.4	3.6	1.7	1.2	1.2	7.1	3.4	4.8	6.5
27	4.0	1.4	1.3	1.3	2.6	1.4	1.7	2.0	4.3	3.1	15	7.7
28	2.8	1.4	1.1	1.3	2.1	1.4	2.0	4.3	11	38	8.5	6.4
29	2.3	1.3	1.1	1.4	---	1.4	1.3	3.5	17	12	5.2	5.0
30	2.2	1.3	1.3	1.4	---	1.4	0.89	2.4	12	6.6	49	4.4
31	2.1	---	1.1	1.4	---	1.3	---	1.7	---	4.4	44	---
TOTAL	113.7	47.93	41.12	72.97	100.8	47.52	69.39	66.68	155.05	303.2	367.2	602.7
MEAN	3.67	1.60	1.33	2.35	3.60	1.53	2.31	2.15	5.17	9.78	11.8	20.1
MAX	15	2.0	2.3	12	14	3.2	9.8	17	23	39	49	148
MIN	1.6	0.63	0.92	0.97	1.1	0.72	0.89	0.14	0.92	2.0	3.3	4.4
AC-FT	226	95	82	145	200	94	138	132	308	601	728	1200
CFSM	1.44	0.63	0.52	0.92	1.41	0.60	0.91	0.84	2.03	3.84	4.65	7.88
IN.	1.66	0.70	0.60	1.06	1.47	0.69	1.01	0.97	2.26	4.42	5.36	8.79
*PREC	1.45	0.05	0.61	1.47	1.58	0.27	1.28	0.63	1.93	4.95	7.79	5.26

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

MEAN	4.72	3.77	2.15	2.92	2.81	4.66	2.09	2.46	4.14	8.07	9.07	13.2
MAX	15.7	9.06	3.74	5.00	5.50	15.7	3.95	5.41	7.41	13.5	12.9	36.6
(WY)	1987	1989	1990	1987	1990	1987	1987	1987	1989	1985	1988	1988
MIN	1.68	1.16	0.82	1.74	1.46	1.53	1.05	0.79	1.74	4.32	4.62	5.25
(WY)	2001	1991	1991	1985	1991	2002	1989	1985	1988	1986	2000	1986

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1984 - 2002

ANNUAL TOTAL	1793.61	1988.26	
ANNUAL MEAN	4.91	5.45	5.30
HIGHEST ANNUAL MEAN			7.91
LOWEST ANNUAL MEAN			3.68
HIGHEST DAILY MEAN	207	Sep 14	276
LOWEST DAILY MEAN	0.12	Jun 15	0.07
ANNUAL SEVEN-DAY MINIMUM	0.15	Jun 10	0.15
MAXIMUM PEAK FLOW		894	Sep 5
MAXIMUM PEAK STAGE		4.76	Sep 5
ANNUAL RUNOFF (AC-FT)	3560	3940	3840
ANNUAL RUNOFF (CFSM)	1.93	2.14	2.08
ANNUAL RUNOFF (INCHES)	26.17	29.01	28.24
10 PERCENT EXCEEDS	10	13	11
50 PERCENT EXCEEDS	2.0	2.0	2.1
90 PERCENT EXCEEDS	0.85	1.1	1.0

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
 COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER
 02308935 SAINT JOE CREEK AT PINELLAS PARK, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDE (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
30...	0944	1.01	2.2	6.4	7.2	282	19.4	1.2	4	E.80	.04	.20	<.01
NOV													
19...	0905	.99	1.8	3.8	7.5	348	21.3	1.8	3	E.80	.16	.21	.03
DEC													
11...	0854	.99	1.5	3.0	6.2	358	23.6	1.2	8	E.70	.10	.18	.03
JAN													
30...	0910	.99	1.4	4.0	6.6	327	22.9	.7	<1	.60	.03	<.02	.03
APR													
03...	0918	1.00	1.4	4.1	6.1	361	25.1	.9	2	.60	.02	<.02	.04
29...	0954	1.00	1.3	3.1	6.2	341	27.5	2.7	4	1.1	.06	<.02	.06
JUN													
25...	0904	1.06	3.8	4.7	6.2	221	28.3	4.0	14	.90	.05	<.02	.05
JUL													
31...	0940	1.05	3.8	5.6	6.3	226	30.1	4.3	10	1.1	.02	<.02	.03
AUG													
12...	0950	1.08	5.4	4.8	6.2	226	28.2	1.8	10	1.0	.08	<.02	.01
28...	1002	1.13	8.5	4.3	6.2	257	28.0	2.7	10	.90	.11	.08	<.01
SEP													
11...	0901	1.16	11	5.6	6.2	302	28.8	1.8	9	.90	.10	.18	.02
23...	0952	1.14	8.4	3.8	6.3	295	29.0	3.2	16	1.4	.14	.08	.01

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
30...	E.009
NOV	
19...	E.024
DEC	
11...	E.032
JAN	
30...	.043
APR	
03...	.061
29...	.095
JUN	
25...	.052
JUL	
31...	.105
AUG	
12...	.082
28...	.101
SEP	
11...	.083
23...	.074

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309415 CURLEW CREEK AT EVANS ROAD NEAR DUNEDIN, FL

LOCATION.--Lat 28°01'23", long 82°44'27" (1927 North American datum), in NW¼ sec.30, T.28 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, on right bank, 20 ft downstream from culvert on Evans Road, 800 ft west of U. S. Highway 19, and 2.8 mi east of Dunedin.
DRAINAGE AREA.--0.57 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

REMARKS.--Records poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	0.22
2	---	---	---	---	---	---	---	---	---	---	---	0.35
3	---	---	---	---	---	---	---	---	---	---	---	0.33
4	---	---	---	---	---	---	---	---	---	---	---	0.20
5	---	---	---	---	---	---	---	---	---	---	---	0.35
6	---	---	---	---	---	---	---	---	---	---	---	1.5
7	---	---	---	---	---	---	---	---	---	---	---	17
8	---	---	---	---	---	---	---	---	---	---	---	1.6
9	---	---	---	---	---	---	---	---	---	---	1.8	0.84
10	---	---	---	---	---	---	---	---	---	---	1.4	0.45
11	---	---	---	---	---	---	---	---	---	---	1.3	0.75
12	---	---	---	---	---	---	---	---	---	---	6.4	0.43
13	---	---	---	---	---	---	---	---	---	---	0.92	0.37
14	---	---	---	---	---	---	---	---	---	---	0.67	0.82
15	---	---	---	---	---	---	---	---	---	---	0.44	1.0
16	---	---	---	---	---	---	---	---	---	---	0.19	0.83
17	---	---	---	---	---	---	---	---	---	---	0.41	0.61
18	---	---	---	---	---	---	---	---	---	---	1.0	1.0
19	---	---	---	---	---	---	---	---	---	---	1.1	1.4
20	---	---	---	---	---	---	---	---	---	---	0.57	3.8
21	---	---	---	---	---	---	---	---	---	---	4.1	1.9
22	---	---	---	---	---	---	---	---	---	---	25	0.73
23	---	---	---	---	---	---	---	---	---	---	8.8	0.68
24	---	---	---	---	---	---	---	---	---	---	1.0	0.93
25	---	---	---	---	---	---	---	---	---	---	1.6	1.4
26	---	---	---	---	---	---	---	---	---	---	1.4	0.67
27	---	---	---	---	---	---	---	---	---	---	0.59	1.4
28	---	---	---	---	---	---	---	---	---	---	0.24	0.56
29	---	---	---	---	---	---	---	---	---	---	0.36	0.57
30	---	---	---	---	---	---	---	---	---	---	0.14	0.62
31	---	---	---	---	---	---	---	---	---	---	0.12	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	43.31
MEAN	---	---	---	---	---	---	---	---	---	---	---	1.44
MAX	---	---	---	---	---	---	---	---	---	---	---	17
MIN	---	---	---	---	---	---	---	---	---	---	---	0.20
MED	---	---	---	---	---	---	---	---	---	---	---	0.74
AC-FT	---	---	---	---	---	---	---	---	---	---	---	86
CFSM	---	---	---	---	---	---	---	---	---	---	---	2.53
IN.	---	---	---	---	---	---	---	---	---	---	---	2.83
*PREC	---	---	---	---	---	---	---	---	---	---	---	5.99

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

MEAN	---	---	---	---	---	---	---	---	---	---	---	1.44
MAX	---	---	---	---	---	---	---	---	---	---	---	1.44
(WY)	---	---	---	---	---	---	---	---	---	---	---	1999
MIN	---	---	---	---	---	---	---	---	---	---	---	1.44
(WY)	---	---	---	---	---	---	---	---	---	---	---	1999

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309415 CURLEW CREEK AT EVANS ROAD NEAR DUNEDIN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 1999.

WATER-QUALITY DATA, PERIOD AUGUST TO SEPTEMBER 1999

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDE (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
AUG 18...	1345	1.10	.03	4.2	7.1	491	27.6	1.2	3	.40	.08	.39	.03
SEP 08...	0945	1.33	1.6	4.6	7.4	437	26.1	1.9	<1	.74	.15	.34	.07

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
AUG 18...	.05
SEP 08...	.08

Remark codes used in this report:

< -- Less than

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309415 CURLEW CREEK AT EVANS ROAD NEAR DUNEDIN, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.77	0.70	0.09	0.13	0.35	0.01	e0.17	e0.03	0.06	8.2	4.0	1.0
2	0.88	1.4	0.14	0.08	0.16	0.24	e0.10	e0.03	0.06	0.71	5.1	0.39
3	1.7	0.06	0.21	0.03	0.18	0.12	e0.09	e0.04	0.07	0.40	1.5	0.12
4	0.77	0.06	0.21	0.02	0.32	0.03	e0.26	e0.03	0.08	0.45	2.8	0.05
5	2.9	0.14	0.16	0.01	0.10	0.06	e0.17	e0.03	0.12	0.64	1.2	1.5
6	1.1	0.18	0.27	0.10	0.11	0.04	e0.12	e0.02	0.15	0.16	1.0	0.94
7	0.69	0.15	0.24	0.79	0.17	0.03	e0.08	e0.02	0.13	0.07	0.88	7.0
8	0.67	0.14	0.14	0.10	0.14	0.02	e0.08	e0.02	0.42	0.26	0.80	0.77
9	0.51	0.14	0.13	0.08	0.16	0.16	e0.07	e0.02	0.47	0.08	1.1	7.6
10	0.41	0.21	0.12	0.97	0.12	0.07	e0.07	e0.02	0.45	0.14	0.82	1.8
11	0.33	0.13	0.08	0.28	0.21	0.11	e0.07	e0.02	0.62	0.71	0.68	1.0
12	0.97	0.13	0.09	0.07	0.10	0.20	e0.06	e0.02	0.56	0.66	4.3	0.72
13	0.48	0.11	0.06	0.07	0.06	0.15	e0.06	e0.02	0.10	0.34	2.4	0.54
14	0.37	0.14	0.51	0.07	0.85	0.07	e0.90	e0.01	0.08	0.54	1.0	0.38
15	0.35	0.12	0.09	0.06	0.36	0.15	e0.50	e0.01	0.06	63	3.3	0.28
16	0.47	0.16	0.02	0.13	0.11	e0.07	e0.35	e0.02	1.8	1.3	1.00	1.3
17	0.29	0.11	0.30	0.13	0.11	e0.07	e0.18	e0.02	3.3	0.73	0.80	24
18	0.19	0.12	1.9	0.03	0.09	e0.07	e0.13	e0.03	1.3	2.9	0.68	2.0
19	0.13	0.10	0.58	0.06	0.13	e0.22	e0.12	0.06	1.8	2.1	0.57	1.5
20	0.20	0.14	0.22	0.03	0.12	e0.18	e0.09	0.07	0.82	0.72	0.47	13
21	1.2	0.19	0.23	0.02	0.06	e0.15	e0.08	0.10	0.29	0.59	0.40	2.1
22	0.16	0.14	0.30	0.02	0.09	e0.10	e0.07	0.13	0.15	0.50	2.6	1.4
23	0.11	0.13	0.25	0.03	0.09	e0.07	e0.06	0.13	0.36	1.7	0.72	1.1
24	0.07	0.12	0.19	2.2	0.06	e0.07	e0.07	e0.10	0.46	21	0.59	0.91
25	0.08	0.24	0.13	0.19	0.06	e0.07	e0.06	e0.09	0.31	1.8	0.35	0.74
26	0.06	0.11	0.12	0.06	0.04	e0.08	e0.05	e0.08	1.3	26	0.38	0.27
27	0.03	0.11	0.15	0.05	0.02	e0.80	e0.05	e0.08	0.43	1.9	0.24	0.22
28	0.03	0.09	0.23	0.10	0.03	e0.45	e0.04	e0.08	0.23	1.3	0.12	0.33
29	0.03	0.14	0.23	0.08	0.10	e0.11	e0.04	e0.07	3.3	3.9	0.19	0.10
30	0.05	0.12	0.19	0.06	---	e0.16	e0.03	e0.07	3.2	1.4	0.12	0.05
31	0.08	---	0.21	1.6	---	e0.28	---	e0.06	---	1.3	0.05	---
TOTAL	16.08	5.83	7.79	7.65	4.50	4.41	4.22	1.53	22.48	145.50	40.16	73.11
MEAN	0.52	0.19	0.25	0.25	0.16	0.14	0.14	0.049	0.75	4.69	1.30	1.94
MAX	2.9	1.4	1.9	2.2	0.85	0.80	0.90	0.13	3.3	63	5.1	24
MIN	0.03	0.06	0.02	0.01	0.02	0.01	0.03	0.01	0.06	0.07	0.05	0.05
MED	0.35	0.13	0.19	0.07	0.11	0.10	0.08	0.03	0.39	0.72	0.80	0.92
AC-FT	32	12	15	15	8.9	8.7	8.4	3.0	45	289	80	145
CFSM	0.91	0.34	0.44	0.43	0.27	0.25	0.25	0.09	1.31	8.23	2.27	4.28
IN.	1.05	0.38	0.51	0.50	0.29	0.29	0.28	0.10	1.47	9.50	2.62	4.77
*PREC	1.89	0.88	0.72	1.60	0.41	0.45	0.34	0.00	5.35	13.49	5.66	7.07

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.52	0.19	0.25	0.25	0.16	0.14	0.14	0.049	0.75	4.69	1.30	1.94
MAX	0.52	0.19	0.25	0.25	0.16	0.14	0.14	0.049	0.75	4.69	1.30	2.44
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	0.52	0.19	0.25	0.25	0.16	0.14	0.14	0.049	0.75	4.69	1.30	1.44
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL TOTAL	333.26		
ANNUAL MEAN	0.91	0.91	
HIGHEST ANNUAL MEAN		0.91	2000
LOWEST ANNUAL MEAN		0.91	2000
HIGHEST DAILY MEAN	63	Jul 15	63 Jul 15 2000
LOWEST DAILY MEAN	0.01	Jan 5	0.01 Jan 5 2000
ANNUAL SEVEN-DAY MINIMUM	0.02	May 9	0.02 May 9 2000
MAXIMUM PEAK FLOW	1050	Jul 15	1050 Jul 15 2000
MAXIMUM PEAK STAGE	6.59	Jul 15	6.59 Jul 15 2000
ANNUAL RUNOFF (AC-FT)	661		660
ANNUAL RUNOFF (CFSM)	1.60		1.60
ANNUAL RUNOFF (INCHES)	21.75		21.70
10 PERCENT EXCEEDS	1.5		1.5
50 PERCENT EXCEEDS	0.15		0.15
90 PERCENT EXCEEDS	0.04		0.04

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309415 CURLEW CREEK AT EVANS ROAD NEAR DUNEDIN, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
27...	1027	.97	.03	5.7	7.4	680	20.6	1.0	2	.74	.13	.60	.02
DEC													
02...	1030	1.03	.16	6.4	8.4	599	14.3	2.5	1	.61	.12	.52	.02
28...	1000	1.06	.28	5.2	6.8	614	17.0	1.4	4	.53	.08	.29	.05
JAN													
19...	0930	1.00	.06	4.9	7.6	632	18.6	1.1	5	.46	.09	.45	.05
25...	1100	1.03	.19	6.1	8.3	461	14.5	1.3	1	.55	.09	.32	.04
FEB													
16...	1010	1.04	.11	5.1	8.0	569	17.8	1.5	2	.51	.11	.44	.03
MAR													
22...	0939	.60	.10	4.4	7.4	644	20.2	1.3	3	.75	.13	.23	.09
JUN													
21...	0945	1.40	.33	3.7	6.9	484	26.2	3.1	1	.63	.13	.11	.09
JUL													
17...	0940	1.45	.73	4.6	7.7	724	27.1	1.0	3	.82	.79	.62	.07
AUG													
02...	1546	1.71	5.8	6.0	7.1	278	28.2	3.4	7	.69	.11	.29	.11
17...	1102	1.46	.85	4.6	7.1	575	26.2	2.8	3	.95	.31	.69	.04
SEP													
21...	0831	1.55	2.1	4.4	7.5	496	26.3	1.2	3	.95	.23	.67	.06

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
27...	.06
DEC	
02...	.05
28...	.07
JAN	
19...	.07
25...	.07
FEB	
16...	.07
MAR	
22...	.11
JUN	
21...	.12
JUL	
17...	.10
AUG	
02...	.235
17...	.059
SEP	
21...	.091

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309415 CURLEW CREEK AT EVANS ROAD NEAR DUNEDIN, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.12	e0.10	0.18	e0.02	2.5	0.13	0.45	e0.01	e0.96	1.4	0.20	0.52
2	0.27	e0.08	0.33	e0.02	0.22	0.06	0.33	e0.01	e0.16	0.42	2.4	0.45
3	0.60	0.06	0.27	e0.03	1.3	0.13	0.30	e0.01	e0.12	0.65	0.63	0.42
4	0.47	0.11	0.02	e0.02	0.60	4.2	0.26	e0.01	e0.29	1.5	0.32	0.38
5	0.83	0.13	0.47	e0.02	0.14	0.35	2.9	e0.01	0.41	0.80	0.81	0.35
6	1.0	0.06	2.0	e0.03	0.12	0.29	0.75	e0.01	8.2	0.23	0.56	0.28
7	0.53	0.71	1.7	e0.02	0.05	0.15	0.23	e0.01	0.90	0.25	0.20	0.66
8	0.23	0.48	1.5	e3.0	0.05	0.09	0.18	e0.01	0.23	0.16	0.17	1.6
9	0.17	0.28	1.1	e0.50	0.04	0.09	0.15	e0.01	0.14	0.69	1.1	1.0
10	0.33	0.73	0.47	e0.10	0.02	0.20	0.14	e0.01	0.15	1.6	0.15	0.26
11	0.28	0.51	0.04	e0.03	0.42	0.09	0.10	e0.34	0.13	2.0	1.8	0.50
12	0.29	0.64	0.22	e0.07	0.51	0.39	0.04	e0.08	0.10	0.32	0.22	0.63
13	0.14	0.24	0.02	e0.06	0.16	1.2	0.13	e0.07	0.11	2.8	0.17	0.81
14	0.07	1.1	0.15	e0.05	0.13	0.68	0.24	e0.05	0.43	1.3	0.11	45
15	0.02	0.08	0.03	e0.05	0.05	0.39	0.14	e0.03	0.14	0.28	0.21	6.7
16	0.04	0.14	0.09	e0.04	0.03	1.7	0.19	e0.02	0.09	0.23	0.11	2.1
17	0.09	0.20	1.2	e0.04	0.10	1.7	0.16	e0.01	0.10	2.4	0.06	1.6
18	0.02	0.31	0.05	e0.04	0.08	0.04	0.15	e0.01	0.31	0.32	0.04	1.4
19	0.08	0.57	0.17	0.04	0.06	8.2	0.22	e0.01	1.0	0.19	0.04	1.2
20	0.14	0.55	0.17	0.04	0.22	0.40	0.05	e0.01	0.15	0.14	0.01	1.1
21	0.49	0.43	0.11	0.03	0.17	0.18	0.16	e0.01	0.19	3.4	0.01	1.0
22	0.62	0.46	0.13	0.11	0.17	0.10	0.06	e0.01	5.6	2.3	0.11	0.85
23	0.29	0.32	0.06	0.06	0.08	0.08	0.11	e0.01	4.6	4.6	12	0.78
24	0.43	0.11	0.03	0.06	0.06	0.07	0.04	e0.01	2.1	1.2	1.1	2.1
25	0.76	1.0	0.02	0.05	0.08	0.13	0.05	e0.01	0.39	0.58	0.66	1.6
26	1.9	0.78	0.02	0.04	0.06	0.06	e0.04	e0.01	0.28	0.53	0.52	0.89
27	1.4	0.27	e0.02	0.03	0.09	0.05	e0.03	e0.01	0.99	1.1	0.47	1.4
28	1.1	0.13	e0.02	0.05	0.31	0.13	e0.02	e0.01	14	0.41	0.48	1.0
29	e0.80	0.17	e0.02	0.05	---	8.4	e0.02	e0.01	5.3	0.29	1.5	0.85
30	0.61	0.10	e0.02	0.17	---	1.5	e0.01	e0.01	0.69	0.22	0.80	0.79
31	e0.31	---	e0.02	0.33	---	0.87	---	e0.01	---	0.21	0.60	---
TOTAL	14.43	10.85	10.65	5.20	7.82	32.05	7.65	0.84	48.26	32.52	27.56	78.22
MEAN	0.47	0.36	0.34	0.17	0.28	1.03	0.26	0.027	1.61	1.05	0.89	2.61
MAX	1.9	1.1	2.0	3.0	2.5	8.4	2.9	0.34	14	4.6	12	45
MIN	0.02	0.06	0.02	0.02	0.02	0.04	0.01	0.01	0.09	0.14	0.01	0.26
MED	0.31	0.28	0.11	0.04	0.11	0.18	0.15	0.01	0.30	0.58	0.32	0.87
AC-FT	29	22	21	10	16	64	15	1.7	96	65	55	155
CFSM	0.82	0.63	0.60	0.29	0.49	1.81	0.45	0.05	2.82	1.84	1.56	4.57
IN.	0.94	0.71	0.70	0.34	0.51	2.09	0.50	0.05	3.15	2.12	1.80	5.10
*PREC	---	---	---	---	1.25	5.15	0.64	0.08	8.66	6.66	3.41	7.99

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001
MEAN	0.49	0.28	0.30	0.21	0.22	0.59	0.20	0.038	1.18	2.87	1.09	2.16	
MAX	0.52	0.36	0.34	0.25	0.28	1.03	0.26	0.049	1.61	4.69	1.30	2.61	
(WY)	2000	2001	2001	2000	2001	2001	2001	2000	2001	2000	2000	2001	2001
MIN	0.47	0.19	0.25	0.17	0.16	0.14	0.14	0.027	0.75	1.05	0.89	1.44	
(WY)	2001	2000	2000	2001	2000	2000	2000	2001	2000	2001	2001	1999	

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

ANNUAL TOTAL		339.49		276.05									
ANNUAL MEAN		0.93		0.76						0.83			
HIGHEST ANNUAL MEAN										0.91		2000	
LOWEST ANNUAL MEAN										0.76		2001	
HIGHEST DAILY MEAN			63	Jul 15		45	Sep 14		63	Jul 15	2000		
LOWEST DAILY MEAN			0.01	Jan 5		0.01	Apr 30		0.01	Jan 5	2000		
ANNUAL SEVEN-DAY MINIMUM			0.02	May 9		0.01	Apr 30		0.01	Apr 30	2001		
MAXIMUM PEAK FLOW						266	Sep 14		1050	Jul 15	2000		
MAXIMUM PEAK STAGE						3.99	Sep 14		6.59	Jul 15	2000		
ANNUAL RUNOFF (AC-FT)		673		548					604				
ANNUAL RUNOFF (CFSM)		1.63		1.33					1.46				
ANNUAL RUNOFF (INCHES)		22.16		18.02					19.87				
10 PERCENT EXCEEDS		1.5		1.5					1.5				
50 PERCENT EXCEEDS		0.16		0.19					0.17				
90 PERCENT EXCEEDS		0.03		0.02					0.03				

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309415 CURLEW CREEK AT EVANS ROAD NEAR DUNEDIN, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
26...	0855	1.29	.85	5.0	7.4	663	21.9	.9	2	.61	.08	.70	.06
JAN													
09...	1055	1.36	E.60	5.6	6.3	530	14.4	1.6	5	.79	.15	.58	.03
FEB													
27...	0934	1.35	.26	2.9	6.3	752	20.8	.8	5	.92	.07	.55	.04
MAR													
05...	1115	1.39	.26	3.6	6.6	583	18.2	2.0	6	.94	.23	.43	.05
APR													
11...	0955	1.35	.08	5.0	6.8	651	22.5	1.2	4	.66	.10	.41	.05
JUN													
27...	0920	1.40	.33	4.3	6.8	658	25.2	1.2	5	.69	.08	.32	.05
AUG													
01...	0910	1.43	.20	5.0	6.3	608	25.7	.6	2	.60	.10	.49	.04
15...	0919	1.40	.08	4.5	6.9	613	27.0	1.2	4	.91	.18	.62	.07
21...	0923	1.37	.01	4.3	7.1	632	27.0	.9	2	.80	.17	.77	.14
SEP													
05...	1010	1.40	.35	5.0	6.6	630	27.6	1.0	3	.70	.110	.520	.04
25...	0904	1.50	1.3	3.9	6.6	424	26.0	1.9	<1	.70	.100	.280	.02

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
26...	.081
JAN	
09...	.110
FEB	
27...	.070
MAR	
05...	.090
APR	
11...	.060
JUN	
27...	E.065
AUG	
01...	.050
15...	.050
21...	.170
SEP	
05...	.039
25...	.030

Remark codes used in this report:

< -- Less than
E -- Estimated value

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309415 CURLEW CREEK AT EVANS ROAD NEAR DUNEDIN, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.71	0.07	0.09	0.71	0.05	0.41	0.86	e0.01	e0.00	27	0.30	1.3
2	0.72	0.07	0.22	4.0	0.05	0.36	0.70	e0.01	e0.00	1.9	0.45	1.1
3	0.59	0.04	0.67	1.3	0.05	0.76	6.0	e0.01	e0.00	0.80	0.79	1.0
4	0.56	0.09	0.30	0.95	0.09	1.5	0.66	e0.01	e0.00	0.56	0.31	0.89
5	0.59	0.33	0.09	0.85	0.10	0.32	0.20	e0.01	e0.00	4.0	0.18	8.0
6	0.71	0.12	0.55	2.4	0.15	0.28	0.14	e0.01	e0.68	4.1	0.16	2.4
7	0.50	0.16	0.17	1.2	1.7	0.27	0.10	e0.31	0.13	2.2	20	1.5
8	0.60	0.30	0.79	1.0	0.28	0.27	0.06	0.40	0.44	1.2	1.8	1.3
9	0.70	0.23	0.13	0.94	0.17	0.23	0.03	0.48	0.15	0.94	1.2	1.1
10	0.99	0.19	0.19	0.89	0.35	0.23	0.09	0.51	0.03	0.62	1.1	1.1
11	0.36	0.39	0.18	0.86	0.48	0.21	1.3	0.51	0.03	0.54	0.80	6.5
12	0.22	0.08	0.07	0.90	0.16	0.22	1.3	0.47	0.01	5.4	0.73	3.0
13	0.20	0.29	0.06	1.3	0.21	1.2	0.44	0.13	0.02	5.7	0.62	2.3
14	6.6	0.84	0.01	4.4	0.22	0.17	0.22	0.36	0.64	1.1	4.6	1.5
15	0.87	0.21	0.21	1.1	0.16	0.10	0.27	0.39	2.2	0.74	1.8	1.3
16	0.56	0.07	0.09	1.0	0.19	0.09	0.10	0.45	0.25	0.60	0.92	1.1
17	0.24	0.03	0.57	1.1	0.11	0.31	0.08	0.19	2.2	0.48	0.77	1.0
18	0.39	0.23	1.4	0.85	0.03	0.26	0.05	0.34	3.7	5.8	0.89	0.87
19	0.19	0.49	0.14	0.64	0.13	0.04	0.04	2.0	0.37	1.0	3.2	0.96
20	0.43	0.95	0.02	0.60	0.17	0.19	0.03	0.33	0.43	0.95	0.86	2.1
21	2.5	0.48	0.06	0.57	0.16	1.0	e0.03	0.05	4.0	0.84	4.5	1.9
22	1.2	0.27	0.11	0.58	1.5	0.29	e0.02	e0.02	3.3	2.1	1.5	1.1
23	0.57	0.10	0.16	0.56	5.8	0.02	e0.02	e0.01	2.1	0.62	0.99	0.71
24	0.24	0.11	0.40	0.53	0.69	0.60	e0.02	e0.01	2.4	3.9	0.85	0.79
25	0.91	0.53	0.16	0.54	0.41	0.81	e0.01	e0.01	1.0	5.5	0.72	0.84
26	0.36	0.19	0.26	0.53	0.37	0.93	e0.01	e0.01	0.51	1.5	0.61	1.1
27	0.19	0.47	0.27	0.50	0.37	0.51	e3.3	e0.03	0.30	0.89	11	0.75
28	0.52	0.45	0.75	0.49	0.38	0.04	0.30	e0.01	10	0.93	5.5	0.56
29	0.34	0.35	0.74	0.48	---	0.91	0.03	e0.01	0.76	0.86	2.0	0.48
30	0.14	0.24	0.76	0.46	---	2.8	0.01	e0.00	2.2	0.60	2.1	0.47
31	0.22	---	0.74	0.42	---	2.5	---	e0.00	---	0.36	1.9	---
TOTAL	23.92	8.37	10.36	32.65	14.53	17.83	16.42	7.09	37.85	83.73	73.15	49.02
MEAN	0.77	0.28	0.33	1.05	0.52	0.58	0.55	0.23	1.26	2.70	2.36	1.63
MAX	6.6	0.95	1.4	4.4	5.8	2.8	6.0	2.0	10	27	20	8.0
MIN	0.14	0.03	0.01	0.42	0.03	0.02	0.01	0.00	0.00	0.36	0.16	0.47
MED	0.56	0.23	0.19	0.85	0.18	0.29	0.09	0.03	0.44	0.95	0.92	1.1
AC-FT	47	17	21	65	29	35	33	14	75	166	145	97
CFSM	1.35	0.49	0.59	1.85	0.91	1.01	0.96	0.40	2.21	4.74	4.14	2.87
IN.	1.56	0.55	0.68	2.13	0.95	1.16	1.07	0.46	2.47	5.46	4.77	3.20
*PREC	2.14	0.04	0.92	2.65	2.46	0.96	2.00	0.58	6.35	10.23	8.68	4.44

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
MEAN	0.59	0.28	0.31	0.49	0.32	0.58	0.31	0.10	1.21	2.81	1.51	2.03
MAX	0.77	0.36	0.34	1.05	0.52	1.03	0.55	0.23	1.61	4.69	2.36	2.61
(WY)	2002	2001	2001	2002	2002	2001	2002	2002	2001	2000	2002	2001
MIN	0.47	0.19	0.25	0.17	0.16	0.14	0.14	0.027	0.75	1.05	0.89	1.44
(WY)	2001	2000	2000	2001	2000	2000	2000	2001	2000	2001	2001	1999

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1999 - 2002

ANNUAL TOTAL	282.77	374.92		
ANNUAL MEAN	0.77	1.03	0.90	
HIGHEST ANNUAL MEAN			1.03	2002
LOWEST ANNUAL MEAN			0.76	2001
HIGHEST DAILY MEAN	45	Sep 14	63	Jul 15 2000
LOWEST DAILY MEAN	0.01	Apr 30	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.01	Apr 30	0.00	May 30
MAXIMUM PEAK FLOW			561	Jul 1
MAXIMUM PEAK STAGE			5.18	Jul 1
ANNUAL RUNOFF (AC-FT)	561	744	651	Jul 15 2000
ANNUAL RUNOFF (CFSM)	1.36	1.80	1.58	
ANNUAL RUNOFF (INCHES)	18.45	24.47	21.41	
10 PERCENT EXCEEDS	1.4	2.2	1.7	
50 PERCENT EXCEEDS	0.22	0.48	0.24	
90 PERCENT EXCEEDS	0.02	0.03	0.03	

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309415 CURLEW CREEK AT EVANS ROAD NEAR DUNEDIN, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
31...	0930	1.37	.22	5.7	7.0	705	20.3	.8	2	E.40	.08	.54	<.01
NOV													
20...	0911	1.01	.97	5.3	7.6	705	20.6	1.0	<1	E.70	.06	.53	.04
DEC													
12...	0846	1.34	.07	4.3	6.7	677	22.4	1.0	<1	E.90	.13	.53	E.05
JAN													
31...	0854	1.43	.56	6.6	7.0	924	22.3	.9	2	.60	.06	.44	.03
APR													
04...	0911	1.43	.66	5.6	6.3	526	20.8	4.4	4	.80	.22	.36	.08
30...	0930	1.31	.01	3.6	6.3	570	24.1	2.0	5	1.1	.30	.24	.15
JUN													
26...	0924	1.42	.51	4.2	6.1	509	26.3	1.4	1	.80	.27	.28	.03
AUG													
01...	1040	1.42	.26	4.9	6.0	623	27.3	1.0	1	.70	.15	.57	.04
13...	1024	1.43	.55	5.1	5.8	630	26.6	.6	<1	.70	.12	.62	.04
27...	1117	1.89	12	5.8	5.5	236	26.0	1.7	3	.80	.03	.21	.14
SEP													
12...	1016	1.54	1.9	4.6	6.8	534	25.8	1.0	3	.80	.13	.40	.06

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
31...	E.031
NOV	
20...	E.040
DEC	
12...	E.025
JAN	
31...	.068
APR	
04...	.111
30...	.139
JUN	
26...	.073
AUG	
01...	.043
13...	.046
27...	.183
SEP	
12...	.102

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309425 CURLEW CREEK AT COUNTY ROAD 1 NEAR OZONA, FL

LOCATION.--Lat 28°02'48", long 82°45'32" (1927 North American datum), in SW¹/₄ sec.13, T.28 S., R.15 E., Pinellas County, Hydrologic Unit 03100207, on right bank, 200 ft upstream from bridge on County Road 1, and 1.9 mi southeast of Ozona.
DRAINAGE AREA.--4.09 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	9.6
2	---	---	---	---	---	---	---	---	---	---	---	8.9
3	---	---	---	---	---	---	---	---	---	---	---	8.1
4	---	---	---	---	---	---	---	---	---	---	---	7.4
5	---	---	---	---	---	---	---	---	---	---	---	6.6
6	---	---	---	---	---	---	---	---	---	---	---	16
7	---	---	---	---	---	---	---	---	---	---	---	122
8	---	---	---	---	---	---	---	---	---	---	---	57
9	---	---	---	---	---	---	---	---	---	---	20	31
10	---	---	---	---	---	---	---	---	---	---	15	21
11	---	---	---	---	---	---	---	---	---	---	12	16
12	---	---	---	---	---	---	---	---	---	---	70	14
13	---	---	---	---	---	---	---	---	---	---	41	11
14	---	---	---	---	---	---	---	---	---	---	34	10
15	---	---	---	---	---	---	---	---	---	---	25	9.0
16	---	---	---	---	---	---	---	---	---	---	19	7.5
17	---	---	---	---	---	---	---	---	---	---	16	7.0
18	---	---	---	---	---	---	---	---	---	---	14	9.8
19	---	---	---	---	---	---	---	---	---	---	15	9.1
20	---	---	---	---	---	---	---	---	---	---	12	64
21	---	---	---	---	---	---	---	---	---	---	34	36
22	---	---	---	---	---	---	---	---	---	---	180	22
23	---	---	---	---	---	---	---	---	---	---	127	15
24	---	---	---	---	---	---	---	---	---	---	51	11
25	---	---	---	---	---	---	---	---	---	---	34	19
26	---	---	---	---	---	---	---	---	---	---	28	19
27	---	---	---	---	---	---	---	---	---	---	22	18
28	---	---	---	---	---	---	---	---	---	---	18	13
29	---	---	---	---	---	---	---	---	---	---	17	10
30	---	---	---	---	---	---	---	---	---	---	13	9.0
31	---	---	---	---	---	---	---	---	---	---	11	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	617.0
MEAN	---	---	---	---	---	---	---	---	---	---	---	20.6
MAX	---	---	---	---	---	---	---	---	---	---	---	122
MIN	---	---	---	---	---	---	---	---	---	---	---	6.6
MED	---	---	---	---	---	---	---	---	---	---	---	12
AC-FT	---	---	---	---	---	---	---	---	---	---	---	1220
CFSM	---	---	---	---	---	---	---	---	---	---	---	5.03
IN.	---	---	---	---	---	---	---	---	---	---	---	5.61
*PREC	---	---	---	---	---	---	---	---	---	---	---	4.49

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

MEAN	---	---	---	---	---	---	---	---	---	---	---	20.6
MAX	---	---	---	---	---	---	---	---	---	---	---	20.6
(WY)	---	---	---	---	---	---	---	---	---	---	---	1999
MIN	---	---	---	---	---	---	---	---	---	---	---	20.6
(WY)	---	---	---	---	---	---	---	---	---	---	---	1999

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309425 CURLEW CREEK AT COUNTY ROAD 1 NEAR OZONA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 1999.

WATER-QUALITY DATA, PERIOD AUGUST TO SEPTEMBER 1999

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
------	------	-------------------------------------	---	--	--	--	---	--	---	---	---	---	--

AUG													
18...	1320	1.29	15	5.7	7.9	466	28.4	1.2	22	.61	.05	.39	.15
SEP													
08...	0900	2.11	58	6.0	8.5	344	26.7	3.2	10	1.2	.08	.21	.13

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
AUG	
18...	.25
SEP	
08...	.19

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309425 CURLEW CREEK AT COUNTY ROAD 1 NEAR OZONA, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	6.5	4.4	3.7	10	3.9	3.4	2.1	1.8	83	55	11
2	6.9	27	3.8	3.7	7.1	3.9	3.2	2.1	1.5	14	82	9.9
3	9.6	9.8	3.5	3.7	6.2	4.2	3.0	2.0	1.9	8.2	40	8.0
4	13	8.4	3.7	3.7	5.8	4.1	3.0	2.1	2.0	7.0	78	8.2
5	32	7.3	3.6	3.3	5.3	3.9	2.8	2.3	1.9	9.1	61	13
6	22	7.1	4.0	3.4	5.3	3.7	2.8	2.2	1.8	6.3	47	13
7	16	6.7	3.9	7.4	4.9	3.7	2.6	2.1	1.8	5.0	36	33
8	14	6.5	3.8	4.4	4.9	3.4	2.7	2.0	1.7	5.2	30	33
9	13	6.2	3.8	4.0	4.8	3.6	2.6	2.1	1.8	5.1	32	57
10	11	5.7	3.7	6.7	4.7	3.4	2.5	1.9	1.9	4.3	28	53
11	9.7	5.7	3.8	7.3	4.8	3.6	2.5	2.5	3.3	3.9	22	39
12	9.9	5.4	3.9	5.0	5.3	3.5	2.4	1.8	7.0	3.5	84	28
13	9.7	5.3	3.6	4.6	6.8	3.7	2.5	2.0	3.0	3.8	48	27
14	8.9	5.2	4.9	4.2	11	3.3	5.3	1.9	2.4	4.7	30	33
15	9.1	5.0	3.9	3.8	9.6	3.3	3.7	1.9	2.0	226	33	25
16	9.1	4.9	3.7	3.7	6.9	3.5	3.0	2.0	2.8	92	15	23
17	8.3	4.7	4.3	3.9	6.5	3.3	2.8	1.7	18	39	16	252
18	7.8	4.6	11	3.8	5.9	3.4	2.8	1.9	18	44	13	e91
19	7.3	4.5	7.9	3.8	5.7	3.2	2.5	1.9	31	38	8.6	e37
20	7.1	4.8	5.7	3.8	5.9	3.5	2.5	1.9	29	15	7.3	160
21	16	4.7	5.4	3.5	5.3	3.2	2.3	2.0	6.4	11	7.4	56
22	9.6	4.7	5.0	3.6	5.2	3.2	2.4	1.8	3.7	9.1	41	37
23	7.9	4.7	5.1	3.5	5.1	3.1	2.4	1.9	3.4	11	27	30
24	6.9	4.8	4.6	9.2	4.8	2.8	2.3	1.8	7.3	165	25	25
25	6.4	4.8	4.4	5.6	4.1	2.8	2.7	1.9	3.4	52	18	21
26	6.4	4.5	4.1	4.3	4.2	2.9	2.3	1.9	9.1	154	13	17
27	6.3	4.6	4.2	4.0	3.9	9.2	2.2	1.7	5.7	74	11	15
28	6.0	4.4	4.0	4.0	4.4	5.3	2.0	1.9	3.6	48	8.9	14
29	5.5	4.5	4.0	4.2	4.3	3.8	2.2	1.9	30	41	8.6	13
30	5.6	4.4	3.7	4.3	---	3.6	2.1	1.8	20	41	8.2	11
31	5.4	---	3.7	13	---	3.4	---	1.9	---	37	7.4	---
TOTAL	314.2	187.4	139.1	147.1	168.7	115.4	81.5	60.9	227.2	1260.2	941.4	1193.1
MEAN	10.1	6.25	4.49	4.75	5.82	3.72	2.72	1.96	7.57	40.7	30.4	39.8
MAX	32	27	11	13	11	9.2	5.3	2.5	31	226	84	252
MIN	5.4	4.4	3.5	3.3	3.9	2.8	2.0	1.7	1.5	3.5	7.3	8.0
MED	8.9	4.9	4.0	4.0	5.3	3.5	2.6	1.9	3.4	14	27	26
AC-FT	623	372	276	292	335	229	162	121	451	2500	1870	2370
CFSM	2.48	1.53	1.10	1.16	1.42	0.91	0.66	0.48	1.85	9.94	7.42	9.72
IN.	2.86	1.70	1.27	1.34	1.53	1.05	0.74	0.55	2.07	11.46	8.56	10.85
*PREC	1.43	0.77	0.78	1.09	0.38	0.72	0.35	0.00	5.69	8.60	6.31	5.89

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MEAN	10.1	6.25	4.49	4.75	5.82	3.72	2.72	1.96	7.57	40.7	30.4	30.2
MAX	10.1	6.25	4.49	4.75	5.82	3.72	2.72	1.96	7.57	40.7	30.4	39.8
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	10.1	6.25	4.49	4.75	5.82	3.72	2.72	1.96	7.57	40.7	30.4	20.6
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999

SUMMARY STATISTICS

FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL TOTAL	4836.2		
ANNUAL MEAN	13.2		
HIGHEST ANNUAL MEAN		13.2	2000
LOWEST ANNUAL MEAN		13.2	2000
HIGHEST DAILY MEAN	252	Sep 17	2000
LOWEST DAILY MEAN	1.5	Jun 2	2000
ANNUAL SEVEN-DAY MINIMUM	1.8	May 27	2000
MAXIMUM PEAK FLOW	1100	Jul 15	2000
MAXIMUM PEAK STAGE	10.16	Jul 15	2000
ANNUAL RUNOFF (AC-FT)	9590		
ANNUAL RUNOFF (CFSM)	3.23		
ANNUAL RUNOFF (INCHES)	43.99		
10 PERCENT EXCEEDS	33		
50 PERCENT EXCEEDS	4.8		
90 PERCENT EXCEEDS	2.1		

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309425 CURLEW CREEK AT COUNTY ROAD 1 NEAR OZONA, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEDED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEDED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
27...	0944	.96	6.3	7.9	7.7	536	20.4	.9	2	.48	.03	.24	.16
DEC													
02...	0939	.86	3.4	9.3	8.6	619	13.9	1.6	<1	.43	.02	.83	.15
28...	0848	.87	3.6	8.9	7.1	624	16.6	.8	1	.79	.18	1.00	.14
JAN													
19...	0830	.88	3.8	6.5	8.1	640	18.2	5.9	3	1.4	1.00	1.90	.16
25...	1130	.94	5.2	8.6	8.8	543	14.8	2.6	2	1.1	.60	1.10	.14
FEB													
16...	0844	.95	6.0	7.1	8.2	538	17.9	3.1	2	.87	.32	1.40	.19
MAR													
22...	0850	.83	3.2	6.4	7.8	683	20.1	1.4	<1	.67	.12	1.10	.20
JUN													
21...	0829	.98	6.8	5.3	6.9	499	26.4	3.2	2	1.4	.72	.69	.22
JUL													
17...	0850	1.67	40	5.8	7.1	486	27.4	2.4	10	1.3	.17	.33	.23
AUG													
02...	1624	2.94	120	6.6	7.6	296	28.3	2.4	25	.83	.08	.35	.12
17...	1023	1.20	16	6.4	7.4	488	27.0	3.6	4	.92	.04	.62	.16
SEP													
21...	0915	1.98	56	6.2	7.8	339	26.5	1.5	11	1.0	.11	.38	.16

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
27...	.16
DEC	
02...	.17
28...	.15
JAN	
19...	.18
25...	.20
FEB	
16...	.24
MAR	
22...	.21
JUN	
21...	.26
JUL	
17...	.31
AUG	
02...	.269
17...	.211
SEP	
21...	.207

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309425 CURLEW CREEK AT COUNTY ROAD 1 NEAR OZONA, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	3.7	4.6	4.3	20	3.5	15	2.7	6.1	51	11	8.1
2	10	3.7	4.4	4.2	10	3.4	11	2.6	6.1	30	21	8.9
3	9.2	3.6	4.3	4.2	13	3.4	9.2	2.6	2.9	17	22	8.7
4	8.9	3.6	4.0	4.2	12	27	8.4	2.6	3.4	20	15	6.7
5	8.4	3.8	3.8	4.0	8.8	9.4	12	2.4	6.9	24	14	6.0
6	8.2	3.6	3.7	4.3	7.4	6.5	17	2.4	54	15	18	5.4
7	8.3	3.8	3.8	4.1	6.9	5.2	8.9	2.3	19	12	12	5.7
8	7.5	3.4	3.5	11	6.5	4.6	7.7	2.2	6.6	10	11	18
9	6.5	3.6	3.7	6.8	6.1	4.4	7.6	2.2	4.8	14	13	28
10	5.9	8.9	3.7	5.5	5.8	4.7	6.8	2.2	4.2	19	11	10
11	5.7	4.2	3.7	5.0	9.8	4.2	6.2	2.2	3.7	25	14	8.6
12	5.6	3.9	3.8	6.2	8.9	3.9	5.6	3.2	3.3	18	12	8.6
13	5.5	3.7	3.7	5.6	5.7	4.1	5.1	2.4	3.2	24	10	10
14	5.4	8.9	3.7	5.2	5.4	4.3	5.1	2.2	4.5	24	9.1	274
15	5.1	5.6	3.7	5.1	5.1	4.3	4.8	2.1	3.3	15	8.7	183
16	5.0	4.4	3.9	4.9	4.7	4.1	4.5	2.2	3.0	12	8.1	61
17	4.9	4.2	7.4	4.8	4.5	4.0	4.1	2.0	2.9	26	6.8	38
18	4.8	4.0	4.7	4.8	4.2	3.9	3.8	2.0	3.1	16	6.3	30
19	4.7	4.1	4.8	4.8	4.0	45	3.6	1.9	6.6	11	6.1	25
20	4.6	4.2	4.5	4.8	3.7	18	3.5	1.9	3.5	9.8	5.6	21
21	4.4	3.7	4.4	4.7	3.8	11	3.3	1.8	3.6	29	5.3	18
22	4.3	3.6	4.4	4.6	3.7	8.0	3.3	1.8	23	54	5.2	16
23	4.1	3.6	4.4	4.7	3.6	7.0	3.2	1.8	33	48	37	14
24	4.0	3.9	4.2	4.7	3.7	5.9	3.1	1.8	21	38	28	17
25	3.9	6.8	3.9	4.3	3.6	5.4	3.2	1.8	10	27	15	25
26	4.0	9.1	3.7	4.4	3.5	5.0	3.2	1.6	6.9	21	10	16
27	4.0	6.9	3.8	4.5	3.4	4.5	2.8	1.7	11	22	8.2	15
28	3.9	5.4	4.7	4.4	3.5	4.3	2.8	1.7	82	20	6.9	14
29	4.0	5.0	4.3	4.5	---	61	2.7	1.7	53	15	13	13
30	4.0	4.7	4.3	4.6	---	41	2.7	1.7	35	13	9.4	11
31	3.7	---	4.2	5.1	---	22	---	1.7	---	12	9.8	---
TOTAL	179.5	141.6	129.7	154.3	181.3	343.0	180.2	65.4	429.6	691.8	382.5	923.7
MEAN	5.79	4.72	4.18	4.98	6.47	11.1	6.01	2.11	14.3	22.3	12.3	30.8
MAX	11	9.1	7.4	11	20	61	17	3.2	82	54	37	274
MIN	3.7	3.4	3.5	4.0	3.4	3.4	2.7	1.6	2.9	9.8	5.2	5.4
MED	5.0	3.9	4.0	4.7	5.3	4.7	4.7	2.1	6.1	20	11	15
AC-FT	356	281	257	306	360	680	357	130	852	1370	759	1830
CFSM	1.42	1.15	1.02	1.22	1.58	2.71	1.47	0.52	3.50	5.46	3.02	7.53
IN.	1.63	1.29	1.18	1.40	1.65	3.12	1.64	0.59	3.91	6.29	3.48	8.40
*PREC	0.07	1.04	0.21	0.61	1.33	4.75	0.20	0.00	7.67	9.19	1.62	8.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	2000	2001	2000	2000	2000	2000	2001	2001	1999
MEAN	7.96	5.48	4.34	4.86	6.14	7.39	4.36	2.04	10.9	31.5	21.4	30.4
MAX	10.1	6.25	4.49	4.98	6.47	11.1	6.01	2.11	14.3	40.7	30.4	39.8
(WY)	2000	2000	2000	2001	2001	2001	2001	2001	2001	2000	2000	2000
MIN	5.79	4.72	4.18	4.75	5.82	3.72	2.72	1.96	7.57	22.3	12.3	20.6
(WY)	2001	2001	2001	2000	2000	2000	2000	2000	2000	2001	2001	1999

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1999 - 2001

ANNUAL TOTAL	4646.3	3802.6		
ANNUAL MEAN	12.7	10.4	11.8	
HIGHEST ANNUAL MEAN			13.2	2000
LOWEST ANNUAL MEAN			10.4	2001
HIGHEST DAILY MEAN	252	Sep 17	274	Sep 14 2001
LOWEST DAILY MEAN	1.5	Jun 2	1.6	May 26 2000
ANNUAL SEVEN-DAY MINIMUM	1.8	May 27	1.7	May 25 2001
MAXIMUM PEAK FLOW			641	Sep 14 2000
MAXIMUM PEAK STAGE			7.44	Sep 14 2000
ANNUAL RUNOFF (AC-FT)	9220	7540	8560	Jul 15 2000
ANNUAL RUNOFF (CFSM)	3.10	2.55	2.89	
ANNUAL RUNOFF (INCHES)	42.26	34.59	39.26	
10 PERCENT EXCEEDS	33	21	27	
50 PERCENT EXCEEDS	4.3	5.0	4.9	
90 PERCENT EXCEEDS	2.1	3.0	2.4	

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309425 CURLEW CREEK AT COUNTY ROAD 1 NEAR OZONA, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
26...	0930	.85	3.6	7.3	7.6	678	21.6	.7	2	1.0	.05	.91	.14
JAN													
09...	1132	.98	6.8	8.2	6.5	527	13.9	.8	3	.65	.08	.52	.14
FEB													
27...	1010	.86	3.1	5.3	7.0	705	21.5	1.3	4	2.8	2.10	1.00	.40
MAR													
05...	1025	1.09	9.1	5.4	7.1	493	18.6	1.6	4	.96	.28	.34	.25
APR													
11...	1029	1.00	6.2	7.2	6.9	598	23.5	1.1	4	.71	.05	.42	.26
JUN													
27...	0930	.96	6.2	7.1	6.3	525	26.0	1.1	5	.65	.03	.90	.46
AUG													
01...	0939	1.10	11	6.9	7.1	529	26.3	.5	2	.71	.04	.36	.14
15...	0954	1.03	8.4	7.0	8.3	530	27.9	1.2	3	.75	.03	.23	.19
21...	0954	.92	5.3	5.4	7.4	593	27.6	.4	3	.54	.03	.18	.17
SEP													
05...	1030	.96	6.2	6.7	7.4	547	27.5	.8	1	.80	.05	.27	.20
25...	0943	1.33	23	6.7	7.0	434	26.5	1.6	2	.80	.06	.28	.20

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
26...	.157
JAN	
09...	.180
FEB	
27...	.390
MAR	
05...	.260
APR	
11...	.280
JUN	
27...	.490
AUG	
01...	E.225
15...	E.218
21...	.200
SEP	
05...	E.239
25...	E.202

Remark codes used in this report:
E -- Estimated value

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309425 CURLEW CREEK AT COUNTY ROAD 1 NEAR OZONA, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	6.4	4.1	4.5	5.1	6.8	3.9	4.9	2.2	146	12	e16
2	9.2	6.8	4.0	23	5.2	7.0	3.8	5.2	2.2	93	11	e12
3	8.6	6.2	4.0	12	5.1	8.2	33	5.5	2.3	37	13	e9.3
4	8.0	6.0	3.9	8.3	4.9	15	16	3.7	2.0	23	11	e6.5
5	7.4	6.1	4.0	7.0	4.6	8.5	11	3.4	3.8	27	9.6	e57
6	7.3	5.7	3.9	14	4.6	7.5	8.0	3.3	5.4	33	8.8	e36
7	7.2	5.8	4.5	9.9	14	7.0	6.5	3.5	2.9	40	&127	e26
8	6.8	5.7	10	7.8	7.5	6.6	5.7	6.0	2.9	30	e48	e16
9	6.2	5.5	5.1	7.0	6.1	6.5	4.9	4.7	3.3	26	e26	e11
10	6.0	5.7	4.5	6.5	6.2	6.1	4.9	4.8	2.6	19	e22	e9.3
11	5.8	5.7	4.3	6.0	7.9	5.7	7.4	5.6	2.3	14	e20	e43
12	5.4	5.5	4.2	5.9	6.1	5.4	14	3.8	2.2	53	e18	e35
13	5.3	5.2	4.7	11	5.7	18	8.0	3.2	2.2	&70	e15	22
14	35	5.5	4.7	27	5.5	7.2	5.8	3.3	2.1	e33	e26	4.4
15	22	5.2	4.6	15	5.1	6.2	5.7	3.3	17	e23	e16	3.2
16	14	5.0	4.1	11	5.3	5.9	5.1	3.3	4.9	e17	e9.8	2.8
17	11	5.0	4.0	9.3	5.0	5.8	5.4	3.9	11	e11	e5.4	2.8
18	8.9	4.9	10	8.1	4.8	5.5	4.7	3.0	28	34	e2.7	2.6
19	7.9	5.1	5.8	7.3	4.5	5.3	4.3	7.4	8.1	e17	e16	2.8
20	7.7	5.1	5.1	6.5	4.5	5.2	4.1	5.4	5.5	e17	e5.6	14
21	15	5.0	4.3	6.6	4.6	5.4	3.9	3.2	19	e15	e40	10
22	17	4.6	4.2	6.8	9.8	4.9	3.6	2.6	39	33	e35	7.4
23	17	4.2	4.1	6.8	39	4.8	3.3	2.5	20	21	e29	5.3
24	12	4.3	6.8	6.3	20	4.8	3.3	2.3	34	30	e21	5.3
25	12	4.2	4.9	5.9	12	4.5	3.2	2.3	19	41	e15	6.4
26	9.2	4.4	5.8	5.9	10	4.3	3.0	2.3	13	39	e11	6.5
27	8.0	4.5	4.7	5.7	8.7	4.4	8.6	3.3	9.7	27	e92	6.4
28	7.3	4.5	4.8	5.6	7.4	4.2	7.6	3.0	61	24	e42	5.9
29	6.9	4.0	5.0	5.5	---	3.9	6.3	2.5	36	22	e31	6.1
30	6.6	4.0	4.9	5.4	---	4.0	5.5	2.4	32	18	e24	6.7
31	6.5	---	4.8	5.4	---	4.0	---	2.2	---	14	e20	---
TOTAL	317.1	155.8	153.8	273.0	229.2	198.6	210.5	115.8	395.6	1047	782.9	397.7
MEAN	10.2	5.19	4.96	8.81	8.19	6.41	7.02	3.74	13.2	33.8	25.3	13.3
MAX	35	6.8	10	27	39	18	33	7.4	61	146	127	57
MIN	5.3	4.0	3.9	4.5	4.5	3.9	3.0	2.2	2.0	11	2.7	2.6
MED	8.0	5.1	4.6	6.8	5.6	5.7	5.4	3.3	5.4	27	18	7.1
AC-FT	629	309	305	541	455	394	418	230	785	2080	1550	789
CFSM	2.50	1.27	1.21	2.15	2.00	1.57	1.72	0.91	3.22	8.26	6.17	3.24
IN.	2.88	1.42	1.40	2.48	2.08	1.81	1.91	1.05	3.60	9.52	7.12	3.62
*PREC	1.61	1.38	0.90	2.23	2.36	0.85	2.49	0.20	8.21	9.02	7.92	4.86

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	1999	2000	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	8.72	5.39	4.54	6.18	6.81	7.06	5.25	2.60	11.7	32.2	22.7	26.1
MAX	10.2	6.25	4.96	8.81	8.19	11.1	7.02	3.74	14.3	40.7	30.4	39.8
(WY)	2002	2000	2002	2002	2002	2001	2002	2002	2001	2000	2000	2000
MIN	5.79	4.72	4.18	4.75	5.82	3.72	2.72	1.96	7.57	22.3	12.3	13.3
(WY)	2001	2001	2001	2000	2000	2000	2000	2000	2000	2001	2001	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1999 - 2002

ANNUAL TOTAL	3978.5	4277.0		
ANNUAL MEAN	10.9	11.7		11.8
HIGHEST ANNUAL MEAN				13.2
LOWEST ANNUAL MEAN				10.4
HIGHEST DAILY MEAN	274	Sep 14	146	Jul 1
LOWEST DAILY MEAN	1.6	May 26	2.0	Jun 4
ANNUAL SEVEN-DAY MINIMUM	1.7	May 25	2.3	May 29
MAXIMUM PEAK FLOW			923	Jul 1
MAXIMUM PEAK STAGE			9.17	Jul 1
ANNUAL RUNOFF (AC-FT)	7890	8480		8540
ANNUAL RUNOFF (CFSM)	2.67	2.86		2.88
ANNUAL RUNOFF (INCHES)	36.19	38.90		39.15
10 PERCENT EXCEEDS	22	27		27
50 PERCENT EXCEEDS	5.7	6.1		5.4
90 PERCENT EXCEEDS	3.0	3.3		2.7

& Value was computed from affected unit values

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309425 CURLEW CREEK AT COUNTY ROAD 1 NEAR OZONA, FL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
31...	1050	.93	6.2	7.6	7.5	573	20.6	.6	<1	E.50	.02	.26	.61
NOV													
20...	1016	.87	4.7	8.3	7.5	648	21.0	.7	<1	E.70	.02	.19	.29
DEC													
12...	0926	.84	4.0	7.3	6.6	663	22.6	.7	<1	E.60	.04	E.99	.25
JAN													
31...	0927	.92	5.2	8.1	7.2	642	22.4	.8	2	.80	.01	.84	.22
APR													
30...	1011	.92	5.2	6.9	6.1	565	25.5	1.2	1	.80	.04	.49	.32
JUN													
26...	1025	1.14	13	6.7	6.1	529	26.8	.7	3	.90	.07	.36	.22
AUG													
01...	1106	1.13	12	6.5	5.9	524	27.9	.6	1	.70	.03	.59	.36
13...	1105	1.26	15	6.7	6.2	516	27.3	.6	2	.80	.05	.69	.20
27...	1157	2.21	65	6.8	--	268	26.8	2.0	18	.70	.05	.28	.14
SEP													
12...	1046	.85	3.6	6.8	6.3	405	26.3	1.1	9	.90	.06	.36	.14

Date
PHOS-
PHORUS
TOTAL
(MG/L
AS P)
(00665)

OCT	
31...	E.941
NOV	
20...	E.275
DEC	
12...	E.227
JAN	
31...	.252
APR	
30...	.348
JUN	
26...	.239
AUG	
01...	.382
13...	.218
27...	.228
SEP	
12...	.169

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

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309445 BEE BRANCH AT 15TH STREET AT PALM HARBOR, FL

LOCATION.--Lat 28°04'20", long 82°45'36" (1927 North American datum), in SW¹/₄ sec.1, T.28 S., R.15 E., Pinellas County, Hydrologic Unit 03100207, on left bank, on upstream side of box culverts, on 15th Street, and 0.5 mi south of Palm Harbor.
DRAINAGE AREA.--1.13 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

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

DISCHARGE, CUBIC FEET PER SECOND, PERIOD JUNE TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	0.78	17	0.85
2	---	---	---	---	---	---	---	---	---	0.09	5.0	0.64
3	---	---	---	---	---	---	---	---	---	0.05	0.93	0.65
4	---	---	---	---	---	---	---	---	---	0.04	0.61	0.89
5	---	---	---	---	---	---	---	---	---	0.04	0.30	e2.2
6	---	---	---	---	---	---	---	---	---	0.03	0.21	e1.9
7	---	---	---	---	---	---	---	---	---	0.03	0.15	e1.2
8	---	---	---	---	---	---	---	---	---	0.02	0.11	0.94
9	---	---	---	---	---	---	---	---	---	0.03	2.2	e3.2
10	---	---	---	---	---	---	---	---	---	0.02	0.98	e5.9
11	---	---	---	---	---	---	---	---	---	0.02	0.37	0.72
12	---	---	---	---	---	---	---	---	---	0.02	34	0.62
13	---	---	---	---	---	---	---	---	---	0.16	5.5	0.46
14	---	---	---	---	---	---	---	---	---	0.06	2.6	0.37
15	---	---	---	---	---	---	---	---	---	17	2.2	0.37
16	---	---	---	---	---	---	---	---	---	2.2	1.3	27
17	---	---	---	---	---	---	---	---	---	0.45	1.1	126
18	---	---	---	---	---	---	---	---	---	12	0.85	26
19	---	---	---	---	---	---	---	---	---	4.5	0.54	3.5
20	---	---	---	---	---	---	---	---	---	1.5	0.42	14
21	---	---	---	---	---	---	---	---	---	0.78	0.31	e6.0
22	---	---	---	---	---	---	---	---	---	0.38	e0.29	e4.6
23	---	---	---	---	---	---	---	---	---	0.21	e0.30	3.6
24	---	---	---	---	---	---	---	---	---	2.4	e0.36	3.1
25	---	---	---	---	---	---	---	---	---	2.1	e0.96	2.6
26	---	---	---	---	---	---	---	---	---	5.1	1.3	2.4
27	---	---	---	---	---	---	---	---	---	2.7	0.77	2.0
28	---	---	---	---	---	---	---	---	---	1.4	0.60	1.8
29	---	---	---	---	---	---	---	---	---	0.87	0.52	1.6
30	---	---	---	---	---	---	---	---	0.25	1.7	0.61	1.8
31	---	---	---	---	---	---	---	---	---	2.0	0.67	---
TOTAL	---	---	---	---	---	---	---	---	---	58.68	83.06	246.91
MEAN	---	---	---	---	---	---	---	---	---	1.89	2.68	8.23
MAX	---	---	---	---	---	---	---	---	---	17	34	126
MIN	---	---	---	---	---	---	---	---	---	0.02	0.11	0.37
AC-FT	---	---	---	---	---	---	---	---	---	116	165	490

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2000, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	1.89	2.68	8.23
MAX	---	---	---	---	---	---	---	---	---	1.89	2.68	8.23
(WY)	---	---	---	---	---	---	---	---	---	2000	2000	2000
MIN	---	---	---	---	---	---	---	---	---	1.89	2.68	8.23
(WY)	---	---	---	---	---	---	---	---	---	2000	2000	2000

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309445 BEE BRANCH AT 15TH STREET AT PALM HARBOR, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2000.

WATER-QUALITY DATA, PERIOD AUGUST TO SEPTEMBER 2000

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDE (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P (70507)
AUG													
02...	1714	.51	2.0	5.6	7.5	409	27.6	2.9	4	1.0	.05	.49	.10
17...	0954	.47	1.1	5.1	7.7	481	25.9	4.6	3	1.6	.17	.68	.13
SEP													
21...	1000	.59	7.9	6.7	8.7	329	26.0	1.9	5	.92	.07	.36	.11

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
AUG	
02...	.133
17...	.156
SEP	
21...	.149

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309445 BEE BRANCH AT 15TH STREET AT PALM HARBOR, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	0.13	0.12	0.25	e3.4	0.26	1.5	e0.35	e0.40	8.2	e1.9	0.69
2	1.2	0.14	0.11	0.25	e1.2	0.26	0.98	0.26	0.52	4.6	e11	4.6
3	1.1	0.14	0.11	0.24	e1.9	0.26	0.66	0.29	0.16	4.0	e12	3.4
4	0.94	0.13	0.12	0.26	e1.4	2.5	0.56	e0.26	e0.11	3.3	e6.5	1.6
5	0.94	0.14	0.11	0.24	e0.66	0.25	0.99	e0.29	e0.60	2.2	e7.8	1.3
6	0.94	0.11	0.13	0.24	0.26	0.17	0.91	e0.23	e8.0	2.3	e4.2	1.6
7	0.73	0.11	0.18	0.23	0.23	0.14	0.46	e0.30	2.4	2.1	e3.2	1.2
8	0.71	0.11	0.18	0.38	0.20	0.12	0.37	0.26	1.6	1.7	e2.5	2.3
9	0.71	0.11	0.18	0.27	0.22	0.16	0.37	0.26	1.6	3.1	e9.8	2.5
10	0.72	0.41	0.18	0.25	0.23	0.16	0.37	0.28	1.3	4.6	e8.3	2.5
11	0.71	0.13	0.18	0.23	0.22	0.14	0.32	0.27	1.0	4.3	e7.0	1.7
12	0.64	0.13	e0.18	0.26	e0.18	0.13	0.26	0.24	1.1	3.1	e4.4	1.0
13	0.58	0.11	e0.18	0.26	e0.18	0.11	0.26	0.34	1.3	2.9	e2.9	1.0
14	0.38	0.17	0.18	0.23	0.23	0.13	0.26	0.30	1.3	2.5	1.2	23
15	0.34	0.14	e0.18	0.21	0.23	0.18	0.26	0.37	1.0	2.2	1.8	15
16	0.34	0.11	e0.18	0.18	0.24	0.18	0.26	0.32	0.79	3.5	e1.8	4.8
17	0.33	0.11	0.18	0.19	0.26	0.19	0.26	0.38	1.1	4.9	e1.9	2.9
18	0.32	0.11	0.21	0.25	0.26	0.18	0.24	0.41	1.1	2.9	e1.5	2.6
19	0.31	0.13	0.26	0.18	0.26	4.1	0.28	e0.33	1.8	2.1	e1.2	1.8
20	0.30	0.12	0.26	0.26	0.26	1.6	0.24	0.26	1.1	6.2	1.2	1.3
21	0.27	0.11	0.24	0.26	0.26	0.44	0.22	0.28	6.8	34	1.0	1.2
22	0.19	0.11	0.24	0.26	0.26	0.27	0.21	0.45	6.7	9.6	1.1	1.1
23	0.18	0.11	0.21	0.26	0.26	0.25	0.20	0.46	12	10	1.0	1.0
24	0.19	0.11	0.18	0.27	0.26	0.23	0.36	1.4	4.9	5.2	1.3	1.3
25	0.18	0.13	0.18	0.19	0.26	0.24	0.67	1.2	3.0	3.4	0.85	2.0
26	0.18	e0.12	0.18	0.21	0.26	0.24	0.25	0.36	3.0	2.8	0.82	1.1
27	0.18	0.12	0.18	0.23	0.28	0.22	0.24	0.18	11	3.3	0.80	0.94
28	0.23	0.11	0.19	0.22	0.27	0.20	0.29	0.37	16	3.1	0.77	0.94
29	0.21	0.11	0.26	0.21	---	4.9	0.37	e0.29	6.4	e2.9	1.1	0.84
30	0.18	0.11	0.26	0.18	---	4.4	e0.36	e0.35	4.8	e2.1	0.71	0.71
31	0.14	---	0.26	e0.25	---	2.0	---	0.28	---	e2.1	0.58	---
TOTAL	16.07	3.93	5.79	7.40	14.13	24.61	12.98	11.62	102.88	149.2	102.13	87.92
MEAN	0.52	0.13	0.19	0.24	0.50	0.79	0.43	0.37	3.43	4.81	3.29	2.93
MAX	1.7	0.41	0.26	0.38	3.4	4.9	1.5	1.4	16	34	12	23
MIN	0.14	0.11	0.11	0.18	0.18	0.11	0.20	0.18	0.11	1.7	0.58	0.69
AC-FT	32	7.8	11	15	28	49	26	23	204	296	203	174
*PREC	0.03	---	---	---	---	2.67	---	---	---	0.72	---	2.53

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2001
MEAN	0.52	0.13	0.19	0.24	0.50	0.79	0.43	0.37	3.43	3.35	2.99	5.58
MAX	0.52	0.13	0.19	0.24	0.50	0.79	0.43	0.37	3.43	4.81	3.29	8.23
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000
MIN	0.52	0.13	0.19	0.24	0.50	0.79	0.43	0.37	3.43	1.89	2.68	2.93
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 2000 - 2001

ANNUAL TOTAL	538.66		
ANNUAL MEAN	1.48		1.48
HIGHEST ANNUAL MEAN			1.48
LOWEST ANNUAL MEAN			1.48
HIGHEST DAILY MEAN	34	Jul 21	126
LOWEST DAILY MEAN	0.11	Nov 6	0.02
ANNUAL SEVEN-DAY MINIMUM	0.11	Nov 27	0.02
MAXIMUM PEAK FLOW	137	Jul 21	428
MAXIMUM PEAK STAGE	1.57	Jul 21	2.43
ANNUAL RUNOFF (AC-FT)	1070		1070
10 PERCENT EXCEEDS	3.7		3.7
50 PERCENT EXCEEDS	0.30		0.30
90 PERCENT EXCEEDS	0.14		0.14

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309445 BEE BRANCH AT 15TH STREET AT PALM HARBOR, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
26...	1000	.41	.18	6.3	7.9	614	21.1	.9	3	.70	.08	1.70	.11
FEB													
27...	1044	.41	.28	5.6	6.7	649	20.8	.5	12	.86	.08	.88	.12
MAR													
05...	0950	.41	.25	6.6	7.0	512	17.3	1.3	6	.86	.17	.53	.19
APR													
11...	1115	.42	.32	7.1	6.6	609	22.9	1.0	8	.72	.07	.66	.15
JUN													
27...	1045	.49	2.2	6.4	7.1	608	25.7	1.5	53	1.1	.18	.61	.14
AUG													
01...	1031	.48	2.0	6.4	7.1	551	25.7	1.1	63	1.3	.16	.91	.27
15...	1020	.46	1.2	6.2	7.3	615	27.0	1.1	9	.93	.11	1.20	.09
21...	1024	.45	1.0	5.8	7.3	632	26.6	.7	6	.73	.09	1.10	.09
SEP													
05...	1104	.46	1.3	5.7	7.4	503	26.6	1.4	6	1.6	.14	.82	.11
25...	1033	.49	2.2	6.6	6.9	440	25.8	1.1	2	1.1	.11	.57	E.10

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
26...	.120
FEB	
27...	.140
MAR	
05...	.200
APR	
11...	.190
JUN	
27...	.550
AUG	
01...	E.627
15...	.090
21...	.090
SEP	
05...	E.203
25...	.050

Remark codes used in this report:
E -- Estimated value

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIE RIVER

02309445 BEE BRANCH AT 15TH STREET AT PALM HARBOR, FL--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.71	0.47	e0.26	0.52	0.26	0.31	0.40	0.37	0.22	16	0.94	2.6
2	0.57	0.54	e0.51	1.5	0.26	0.21	0.44	0.37	0.18	5.9	1.1	2.5
3	0.57	0.46	e0.75	1.2	0.26	0.25	1.4	0.37	0.18	3.3	2.7	1.8
4	0.56	0.44	1.1	0.97	0.26	0.76	1.6	0.37	0.18	2.2	1.6	1.3
5	0.47	0.44	0.58	0.69	0.27	0.61	1.2	0.37	3.0	1.6	1.1	2.2
6	0.46	0.51	0.36	0.64	0.26	0.49	0.78	0.37	2.1	1.9	1.1	5.1
7	0.47	0.87	0.38	0.26	0.95	0.43	0.61	0.35	0.40	2.6	3.8	3.4
8	0.59	0.31	0.99	0.23	0.80	0.30	0.52	0.33	0.50	3.2	2.9	2.1
9	0.62	0.21	0.52	0.35	0.59	0.39	0.52	0.37	0.49	3.5	2.1	1.7
10	0.63	0.10	0.26	0.43	0.49	0.38	0.52	0.36	0.32	2.6	1.6	1.6
11	0.58	0.08	0.26	0.35	0.53	0.30	0.65	0.32	0.37	2.0	1.2	2.3
12	0.64	0.13	0.35	e0.37	0.42	0.63	1.2	0.27	0.26	5.5	1.2	2.9
13	0.74	0.07	0.34	e0.92	0.37	0.84	0.70	0.26	0.23	5.9	27	2.2
14	0.92	0.31	0.10	e6.0	0.31	0.64	0.52	0.32	0.21	2.8	7.7	2.0
15	0.83	0.40	0.37	e3.3	0.21	0.37	0.52	0.34	1.2	2.2	6.9	1.5
16	0.71	e0.85	e0.37	e2.1	0.18	0.32	0.54	0.32	0.49	1.8	3.6	1.0
17	0.70	e0.85	e0.37	e1.4	0.18	0.31	0.75	0.34	5.1	1.3	3.5	0.94
18	0.58	e0.40	e0.61	e1.00	0.17	0.30	0.59	0.38	11	3.3	2.9	0.94
19	0.51	0.58	0.52	e0.67	0.17	0.31	0.52	0.66	3.4	11	2.9	0.93
20	0.37	0.94	0.50	e0.51	0.18	0.37	0.52	0.47	1.2	3.6	2.8	0.90
21	0.56	0.20	0.47	e0.43	0.18	0.38	0.52	0.37	0.94	2.2	2.5	0.84
22	0.74	0.11	0.43	e0.35	0.33	0.47	0.52	0.34	11	3.1	3.1	0.73
23	0.62	0.10	0.37	e0.35	2.4	0.44	0.50	0.31	3.4	2.8	2.3	0.65
24	0.59	e0.10	0.71	e0.26	3.7	0.36	0.52	0.32	2.0	3.5	2.1	0.52
25	0.58	e0.10	0.52	e0.26	1.8	0.40	0.47	0.35	1.6	5.0	2.0	0.57
26	0.47	e0.10	0.59	0.26	0.88	0.47	0.47	0.37	1.3	3.6	1.3	0.53
27	0.44	e0.12	0.52	0.26	0.60	0.50	0.52	5.2	1.0	2.3	4.2	0.52
28	0.42	e0.14	0.52	e0.26	0.42	0.46	0.44	2.9	3.2	2.0	3.1	0.52
29	0.37	e0.17	0.52	0.26	---	0.45	0.37	0.46	2.8	1.8	2.2	0.50
30	0.37	e0.26	0.52	0.26	---	0.43	0.37	0.31	2.6	1.6	2.1	0.51
31	0.37	---	0.52	0.25	---	0.38	---	0.26	---	1.1	2.2	---
TOTAL	17.76	10.36	15.19	26.61	17.43	13.26	19.20	18.50	60.87	111.2	105.74	45.80
MEAN	0.57	0.35	0.49	0.86	0.62	0.43	0.64	0.60	2.03	3.59	3.41	1.53
MAX	0.92	0.94	1.1	6.0	3.7	0.84	1.6	5.2	11	16	27	5.1
MIN	0.37	0.07	0.10	0.23	0.17	0.21	0.37	0.26	0.18	1.1	0.94	0.50
AC-FT	35	21	30	53	35	26	38	37	121	221	210	91
*PREC	0.28	---	---	---	0.91	0.33	1.30	0.73	5.27	6.39	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	2000	2001	2002	2000	2001	2002	2000	2001	2002	2000	2001	2002
MEAN	0.55	0.24	0.34	0.55	0.56	0.61	0.54	0.49	2.73	3.43	3.13	4.23
MAX	0.57	0.35	0.49	0.86	0.62	0.79	0.64	0.60	3.43	4.81	3.41	8.23
(WY)	2002	2002	2002	2002	2002	2001	2002	2002	2001	2001	2002	2000
MIN	0.52	0.13	0.19	0.24	0.50	0.43	0.43	0.37	2.03	1.89	2.68	1.53
(WY)	2001	2001	2001	2001	2001	2002	2001	2001	2002	2000	2000	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2000 - 2002

ANNUAL TOTAL	556.18	461.92		
ANNUAL MEAN	1.52	1.27		
HIGHEST ANNUAL MEAN			1.37	
LOWEST ANNUAL MEAN			1.48	2001
HIGHEST DAILY MEAN	34	Jul 21	1.27	2002
LOWEST DAILY MEAN	0.07	Nov 13	126	Sep 17 2000
ANNUAL SEVEN-DAY MINIMUM	0.11	Nov 22	0.07	Nov 13
MAXIMUM PEAK FLOW			0.11	Nov 22
MAXIMUM PEAK STAGE			0.02	Jul 6 2000
ANNUAL RUNOFF (AC-FT)	1100		341	Aug 13
10 PERCENT EXCEEDS	3.7		2.22	Aug 13
50 PERCENT EXCEEDS	0.51		428	Aug 12 2000
90 PERCENT EXCEEDS	0.20		2.43	Aug 12 2000
			916	
			3.2	
			0.52	0.49
			0.26	0.18

*PRECIPITATION, TOTAL, INCHES

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309445 BEE BRANCH AT 15TH STREET AT PALM HARBOR, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY PENDEED (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEED (MG/L) (00530)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
OCT													
31...	1155	.42	.37	6.6	7.4	649	20.9	.5	<1	E.40	E.07	1.50	.04
NOV													
20...	1056	.44	.71	7.6	8.5	635	21.1	.6	<1	E.90	.06	.50	.03
DEC													
12...	1014	.41	.26	6.4	7.7	674	21.7	.6	<1	E.60	.07	1.30	.09
JAN													
31...	1009	.42	.25	7.6	7.5	647	21.0	.7	<1	.70	.05	.88	.08
APR													
04...	1008	.46	1.6	7.2	6.3	503	21.0	3.1	2	.60	.09	.28	.08
30...	1052	.40	.37	6.3	6.4	667	24.2	.8	<1	.70	.04	.53	.07
JUN													
26...	1058	.46	1.2	6.4	6.2	669	26.4	.6	<1	.70	.11	.53	.08
AUG													
01...	1145	.45	.94	6.0	6.0	506	27.7	.9	4	1.0	.09	.71	.08
13...	1142	.46	1.2	6.2	6.1	509	27.2	.8	2	.80	.08	.80	.08
27...	1230	.57	4.8	6.7	--	370	27.4	1.4	6	.90	.06	.40	.09
SEP													
12...	1121	.52	2.9	6.8	6.9	438	26.1	1.2	2	1.3	.12	.59	.09

Date	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT	
31...	E.081
NOV	
20...	E.055
DEC	
12...	E.092
JAN	
31...	.093
APR	
04...	.104
30...	.080
JUN	
26...	.073
AUG	
01...	.085
13...	.120
27...	.116
SEP	
12...	.130

Remark codes used in this report:

< -- Less than
E -- Estimated value

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02309848 SOUTH BRANCH ANCLOTE RIVER NEAR ODESSA, FL

LOCATION.--Lat 28°11'08", long 82°33'13" (1927 North American datum), in SE¹/₄ sec.36, T.26 S., R.17 E., Pasco County, Hydrologic Unit 03100207, near left bank, 15 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.84	0.00	0.00	0.00	4.0	5.3	0.10	0.00	0.00	0.18	0.94	112
2	0.64	0.00	0.00	0.00	3.6	5.3	0.00	0.00	0.00	0.33	0.80	57
3	0.52	0.00	0.00	0.00	3.4	9.2	0.19	0.00	0.00	0.13	0.77	33
4	0.43	0.00	0.00	0.00	2.8	11	0.34	0.00	0.00	0.16	0.65	19
5	0.36	0.00	0.00	0.00	2.8	11	0.23	0.00	0.00	0.69	0.51	75
6	0.33	0.00	0.00	0.00	2.9	12	0.10	0.00	0.00	0.56	0.52	134
7	0.41	0.00	0.00	0.00	5.4	13	0.00	0.00	0.00	0.30	5.5	77
8	0.39	0.00	0.00	0.00	5.4	12	0.00	0.00	0.00	0.10	8.1	47
9	0.23	0.00	0.00	0.00	3.6	12	0.19	0.00	0.00	0.04	3.1	29
10	0.12	0.00	0.00	0.00	3.2	8.3	0.36	0.00	0.00	0.16	1.7	19
11	0.03	0.00	0.00	0.00	2.3	10	0.22	0.00	0.00	0.08	1.2	14
12	0.00	0.00	0.00	0.00	2.5	11	0.40	0.00	0.00	0.08	1.2	21
13	0.00	0.00	0.00	0.00	1.8	12	0.24	0.00	0.00	1.1	1.8	31
14	0.00	0.00	0.00	0.00	0.94	11	0.02	0.00	0.00	1.2	6.6	21
15	0.15	0.00	0.00	0.00	0.60	3.0	0.00	0.00	0.00	0.79	36	16
16	0.05	0.00	0.00	0.00	0.44	1.8	0.00	0.00	0.00	0.70	19	10
17	0.00	0.00	0.00	0.00	0.33	1.7	0.00	0.00	0.00	0.55	8.5	7.5
18	0.00	0.00	0.00	0.00	0.22	1.0	0.00	0.00	0.00	0.35	17	6.0
19	0.00	0.00	0.00	0.00	0.13	1.1	0.00	0.00	0.00	0.41	11	15
20	0.00	0.00	0.00	0.00	0.05	0.49	0.00	0.00	0.00	0.52	7.2	72
21	0.00	0.00	0.00	0.00	0.01	0.33	0.00	0.00	0.00	0.76	5.3	36
22	0.00	0.00	0.00	0.00	0.05	0.35	0.00	0.00	0.00	1.0	4.8	25
23	0.00	0.00	0.00	0.00	0.67	0.66	0.00	0.00	0.00	0.94	3.5	18
24	0.00	0.00	0.00	0.00	0.85	0.38	0.00	0.00	0.00	0.68	2.6	14
25	0.00	0.00	0.00	0.38	0.54	0.27	0.00	0.00	0.01	0.63	2.0	17
26	0.00	0.00	0.00	1.7	0.45	0.47	0.00	0.00	1.0	0.62	1.6	34
27	0.00	0.00	0.00	2.3	1.7	0.26	0.00	0.00	0.39	0.41	2.6	30
28	0.00	0.00	0.00	5.1	1.9	0.36	0.00	0.00	0.18	1.1	2.6	24
29	0.00	0.00	0.00	5.7	---	0.30	0.00	0.00	0.36	1.7	2.5	18
30	0.00	0.00	0.00	5.0	---	0.17	0.00	0.00	0.20	1.3	31	13
31	0.00	---	0.00	4.7	---	0.13	---	0.00	---	1.1	78	---
TOTAL	4.50	0.00	0.00	24.88	52.58	155.87	2.39	0.00	2.14	18.67	268.59	1044.5
MEAN	0.15	0.000	0.000	0.80	1.88	5.03	0.080	0.000	0.071	0.60	8.66	34.8
MAX	0.84	0.00	0.00	5.7	5.4	13	0.40	0.00	1.0	1.7	78	134
MIN	0.00	0.00	0.00	0.00	0.01	0.13	0.00	0.00	0.00	0.04	0.51	6.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2002, BY WATER YEAR (WY)

	2.48	1.18	1.72	1.79	3.07	3.18	1.44	0.81	1.62	2.80	6.93	13.5
MEAN	2.48	1.18	1.72	1.79	3.07	3.18	1.44	0.81	1.62	2.80	6.93	13.5
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1971	1971	1971	1971	1976	1976	1971	1971	1971	1972	1972	1972

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1971 - 2002	
ANNUAL TOTAL	533.54		1574.12			
ANNUAL MEAN	1.46		4.31		3.37	
HIGHEST ANNUAL MEAN					23.8	
LOWEST ANNUAL MEAN					0.59	
HIGHEST DAILY MEAN	148	Sep 15	134	Sep 6	287	Sep 24 1998
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 17	0.00	Oct 1 1970
MAXIMUM PEAK FLOW			206		330	
MAXIMUM PEAK STAGE			4.76		5.26	
10 PERCENT EXCEEDS	1.4		12		6.6	
50 PERCENT EXCEEDS	0.00		0.05		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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°39'57" (1927 North American datum), in NE¼ sec.23, T.26 S., R.16 E., Pasco County, Hydrologic Unit 03100207, on left bank, 100 ft upstream from bridge on State Highway 54, 3.5 mi east of Elfers, and 16 mi upstream from mouth.

DRAINAGE AREA.--72.5 mi².

PERIOD OF RECORD.--May 1946 to current year.

REVISED RECORDS.--WSP 1434: Drainage area. WSP 1905: 1950-65 (P).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 19, 2002, at site 140 ft downstream at same datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 27.7 ft, Aug. 8 or 9, 1945, from information by local residents and floodmarks; discharge, 5,000 ft³/s, from rating curve extended above 3,700 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	6.1	4.2	3.4	3.8	3.8	4.2	3.1	2.0	20	90	403
2	16	6.0	4.1	4.5	3.6	3.9	4.1	3.1	2.0	56	86	536
3	14	6.0	4.1	3.9	3.4	4.1	4.0	3.0	2.0	55	94	421
4	13	6.0	4.0	3.6	3.3	5.1	4.0	2.9	2.0	36	149	270
5	11	5.9	3.9	3.6	3.2	4.4	3.9	2.9	2.0	36	166	202
6	11	5.6	4.0	3.9	3.2	4.1	3.7	2.8	2.0	87	125	420
7	11	5.4	4.1	3.7	3.4	5.1	3.6	2.7	2.1	125	90	601
8	11	5.4	4.4	3.7	3.2	5.9	3.5	2.7	1.9	66	73	472
9	9.3	5.3	4.2	3.6	3.2	6.2	3.5	2.6	1.9	41	108	321
10	8.5	5.3	4.2	3.5	3.3	6.4	3.5	2.5	1.9	31	111	221
11	8.1	5.2	4.1	3.5	3.3	6.5	3.5	2.5	1.9	25	82	157
12	7.8	5.1	3.9	3.6	3.3	6.6	3.6	2.5	1.9	51	62	141
13	7.6	5.1	3.9	3.6	3.2	6.5	3.7	2.5	1.9	71	50	158
14	7.5	5.2	3.9	3.8	3.3	6.2	3.5	2.5	1.9	108	42	177
15	7.8	5.2	3.8	3.7	3.5	6.5	3.4	2.3	2.4	143	88	168
16	7.4	5.0	3.8	3.6	3.4	6.6	3.4	2.6	2.1	113	243	141
17	7.1	5.0	3.9	3.6	3.4	6.7	3.5	3.3	2.7	84	271	115
18	7.0	4.8	3.9	3.6	3.2	6.2	3.5	2.7	3.1	63	237	95
19	6.9	4.8	3.8	3.6	3.2	5.8	3.4	2.5	e2.7	52	199	79
20	6.8	4.7	3.8	3.6	3.4	5.2	3.6	2.2	e8.9	42	178	135
21	7.2	4.6	3.8	3.6	3.5	4.8	3.7	2.1	e8.3	36	133	202
22	7.9	4.6	3.6	3.6	3.6	4.3	3.6	2.1	10	47	105	179
23	7.7	4.5	3.8	3.7	4.1	3.9	3.3	2.0	e11	66	87	143
24	7.6	4.5	3.9	4.0	3.8	3.9	3.1	2.0	e7.3	70	72	118
25	7.3	4.4	3.7	3.8	3.6	4.1	3.1	2.0	8.5	72	58	107
26	6.8	4.4	3.6	3.8	3.6	4.1	3.1	2.0	8.4	69	47	121
27	6.5	4.3	3.5	3.7	3.9	4.0	3.1	2.0	7.5	78	44	141
28	6.4	4.3	3.5	3.7	4.0	3.8	3.0	2.1	8.8	63	47	132
29	6.2	4.3	3.6	3.7	---	3.8	3.0	2.1	11	115	47	111
30	6.2	4.3	3.5	3.7	---	3.9	3.0	2.2	10	121	49	92
31	6.1	---	3.5	4.3	---	4.1	---	2.1	---	105	179	---
TOTAL	273.7	151.3	120.0	115.2	96.9	156.5	105.1	76.6	140.1	2147	3412	6579
MEAN	8.83	5.04	3.87	3.72	3.46	5.05	3.50	2.47	4.67	69.3	110	219
MAX	19	6.1	4.4	4.5	4.1	6.7	4.2	3.3	11	143	271	601
MIN	6.1	4.3	3.5	3.4	3.2	3.8	3.0	2.0	1.9	20	42	79
CFSM	0.12	0.07	0.05	0.05	0.05	0.07	0.05	0.03	0.06	0.96	1.52	3.02
IN.	0.14	0.08	0.06	0.06	0.05	0.08	0.05	0.04	0.07	1.10	1.75	3.38

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2002, BY WATER YEAR (WY)

MEAN	64.5	22.4	31.8	43.5	49.7	75.8	36.2	15.0	24.4	66.6	149	170
MAX	252	150	562	354	462	612	335	245	245	424	557	634
(WY)	1948	1989	1998	1998	1998	1960	1953	1979	1974	1960	1965	1988
MIN	3.18	2.19	2.48	2.36	2.58	2.42	2.17	1.43	1.74	2.34	2.67	7.68
(WY)	1973	1982	1991	1991	1985	1985	1990	1981	1963	1992	1989	1980

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1947 - 2002

ANNUAL TOTAL	3466.4	13373.4	
ANNUAL MEAN	9.50	36.6	62.5
HIGHEST ANNUAL MEAN			228
LOWEST ANNUAL MEAN			8.86
HIGHEST DAILY MEAN	144	Sep 17	601
LOWEST DAILY MEAN	2.1	May 9	1.9
ANNUAL SEVEN-DAY MINIMUM	2.2	May 6	1.9
MAXIMUM PEAK FLOW			622
MAXIMUM PEAK STAGE			17.17
ANNUAL RUNOFF (CFSM)	0.13		0.51
ANNUAL RUNOFF (INCHES)	1.78		6.86
10 PERCENT EXCEEDS	18		119
50 PERCENT EXCEEDS	4.1		4.3
90 PERCENT EXCEEDS	2.5		2.6
			2.7

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310147 HOLLIN CREEK NEAR TARPON SPRINGS, FL

LOCATION.--Lat 28°09'44", long 82°42'38" (1927 North American datum), 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.--8.31 mi², revised.

PERIOD OF RECORD.--June 1981 to current year. Prior to October 1984, mean daily discharges published in U. S. Geological Survey Open-File Report 86-55.

GAGE.--Water-stage recorder. Datum of gage is 7.06 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Stage-discharge relation affected by tide on some days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	0.53	0.47	0.43	0.62	1.1	0.23	0.15	0.15	15	5.0	3.5
2	3.8	0.54	0.47	1.6	0.62	1.0	0.26	0.15	0.15	19	39	2.7
3	2.9	0.54	0.47	1.3	0.62	1.1	0.64	0.15	0.15	34	47	2.1
4	2.4	0.54	0.47	0.86	0.62	2.8	0.64	0.14	0.14	20	45	1.8
5	2.1	0.54	0.47	0.73	0.60	1.8	0.39	0.14	0.14	19	31	3.3
6	1.9	0.50	0.45	0.90	0.57	1.5	0.31	0.13	0.14	27	16	5.1
7	1.7	0.48	0.47	0.89	1.4	1.3	0.28	0.12	0.14	25	9.5	4.6
8	1.5	0.47	0.75	0.77	1.4	1.3	0.26	0.12	0.14	27	7.0	2.8
9	1.3	0.47	0.59	0.70	1.0	1.3	0.24	0.12	0.15	21	4.3	1.9
10	1.2	0.49	0.54	0.68	0.93	1.2	0.23	0.11	0.14	16	2.4	1.3
11	1.1	0.48	0.54	0.65	0.98	1.0	0.24	0.11	0.14	10	1.3	1.2
12	1.1	0.48	0.54	0.62	0.90	0.89	0.35	0.11	0.14	25	0.92	2.2
13	1.1	0.47	0.53	0.62	0.87	0.97	0.31	0.11	0.14	39	1.0	3.2
14	1.4	0.48	0.48	1.1	0.81	0.91	0.26	0.11	0.13	40	2.0	3.2
15	1.1	0.53	0.47	1.3	0.79	0.82	0.25	0.11	0.25	25	5.7	2.5
16	1.0	0.51	0.47	0.91	0.79	0.70	0.23	0.11	0.15	14	7.0	1.7
17	0.99	0.49	0.47	0.79	0.79	0.66	0.23	0.11	2.2	9.5	11	1.2
18	0.94	0.47	0.55	0.75	0.77	0.62	0.23	0.17	2.3	6.3	20	0.76
19	0.88	0.47	0.48	0.70	0.74	0.58	0.22	0.50	0.90	6.7	13	0.48
20	0.88	0.47	0.47	0.70	0.68	0.53	0.23	0.30	0.55	6.4	9.2	0.36
21	0.95	0.47	0.46	0.70	0.68	0.47	0.21	0.21	0.57	5.0	8.4	0.30
22	1.1	0.47	0.45	0.66	0.84	0.45	0.21	0.19	13	14	14	0.22
23	1.0	0.47	0.44	0.62	3.7	0.44	0.21	0.19	4.7	22	11	2.0
24	0.99	0.47	0.52	0.62	2.7	0.43	0.21	0.19	1.9	21	6.7	4.1
25	0.85	0.47	0.51	0.62	1.6	0.40	0.21	0.19	1.8	14	4.2	8.1
26	0.62	0.47	0.48	0.63	1.3	0.33	0.20	0.17	1.9	11	2.7	16
27	0.56	0.47	0.47	0.62	1.2	0.33	0.17	0.17	1.2	8.1	2.7	19
28	0.53	0.46	0.47	0.62	1.1	0.30	0.16	0.18	2.4	5.9	3.8	14
29	0.53	0.45	0.47	0.63	---	0.29	0.16	0.17	4.8	5.4	3.8	11
30	0.54	0.46	0.47	0.62	---	0.28	0.15	0.16	13	6.7	3.6	8.7
31	0.54	---	0.45	0.62	---	0.23	---	0.16	---	5.7	3.9	---
TOTAL	42.60	14.61	15.34	23.96	29.62	26.03	7.92	5.05	53.61	523.7	342.12	129.32
MEAN	1.37	0.49	0.49	0.77	1.06	0.84	0.26	0.16	1.79	16.9	11.0	4.31
MAX	5.1	0.54	0.75	1.6	3.7	2.8	0.64	0.50	13	40	47	19
MIN	0.53	0.45	0.44	0.43	0.57	0.23	0.15	0.11	0.13	5.0	0.92	0.22
CFSM	0.31	0.11	0.11	0.17	0.24	0.19	0.06	0.04	0.40	3.81	2.49	0.97
IN.	0.36	0.12	0.13	0.20	0.25	0.22	0.07	0.04	0.45	4.40	2.87	1.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	5.31	2.39	4.08	3.70	5.23	5.75	2.65	0.75	1.33	4.29	6.29	8.94									
MAX	40.3	15.4	52.9	23.6	51.6	43.9	10.7	3.00	5.07	16.9	37.0	48.7									
(WY)	1996	1998	1998	1998	1998	1998	1993	1991	1982	2002	1991	1988									
MIN	0.14	0.17	0.29	0.14	0.36	0.39	0.24	0.079	0.11	0.24	0.63	1.05									
(WY)	1982	1982	1983	1985	1985	1997	1985	1985	2000	1988	1997	1990									

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1982 - 2002

ANNUAL TOTAL	1033.61	1213.88		
ANNUAL MEAN	2.83	3.33	4.22	
HIGHEST ANNUAL MEAN			20.0	1998
LOWEST ANNUAL MEAN			1.04	1990
HIGHEST DAILY MEAN	89	Sep 15	313	Sep 9 1988
LOWEST DAILY MEAN	0.29	May 9	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.30	May 5	0.00	May 19 1982
MAXIMUM PEAK FLOW			72	Aug 2 1988
MAXIMUM PEAK STAGE			11.35	Aug 2 1988
ANNUAL RUNOFF (CFSM)	0.64	0.75	0.95	
ANNUAL RUNOFF (INCHES)	8.68	10.19	12.95	
10 PERCENT EXCEEDS	7.0	10	9.7	
50 PERCENT EXCEEDS	0.59	0.66	0.98	
90 PERCENT EXCEEDS	0.37	0.16	0.23	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310240 JUMPING GULLY AT LOYCE, FL

LOCATION.--Lat 28°23'06", long 82°29'22" (1927 North American datum), 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.--43 mi².

PERIOD OF RECORD.--May 1964 to September 1988; October 1986 to September 1990, (gage heights only); January 1998 to current year.

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.

REMARKS.--Records good. Revised drainage area of 312 mi², published in WRD FL-98-3A, and WRD FL-99-3A is in error and should not be used. Correct drainage area is 43 mi².

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.07	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFSM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IN.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	11.6	2.43	2.33	3.14	5.06	5.75	2.19	0.45	1.35	4.39	12.4	15.9
MAX	66.7	23.6	40.1	49.8	54.0	33.9	13.4	8.82	16.5	45.5	112	59.7
(WY)	1970	1970	1970	1970	1970	1998	1970	1979	1976	1974	1965	1979
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1973	1968	1968	1968	1968	1968	1968	1967	1965	1967	1973	1972

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1965 - 2002

ANNUAL TOTAL	0.00	0.07		
ANNUAL MEAN	0.000	0.000	5.62	
HIGHEST ANNUAL MEAN			25.6	1970
LOWEST ANNUAL MEAN			0.000	2001
HIGHEST DAILY MEAN	0.00	Jan 1	0.07	Aug 29
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1
MAXIMUM PEAK FLOW			5.4	Aug 29
MAXIMUM PEAK STAGE			3.45	Aug 29
ANNUAL RUNOFF (CFSM)	0.000	0.000	4.30	Mar 19 1998
ANNUAL RUNOFF (INCHES)	0.00	0.00	0.13	
10 PERCENT EXCEEDS	0.00	0.00	1.78	
50 PERCENT EXCEEDS	0.00	0.00	18	
90 PERCENT EXCEEDS	0.00	0.00	0.00	

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310280 PITHLACHASCOTEE RIVER NEAR FIVAY JUNCTION, FL

LOCATION.--Lat 28°19'44", long 82°32'13" (1927 North American datum), in NE¼ 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	0.21	0.24	0.14	0.48	0.71	0.02	0.00	0.00	8.6	14	24
2	3.5	0.26	0.25	1.4	0.45	0.59	0.03	0.00	0.00	14	13	16
3	2.9	0.29	0.25	2.8	0.39	0.61	0.23	0.00	0.00	8.0	15	12
4	2.4	0.31	0.26	2.3	0.37	3.4	0.73	0.00	0.00	6.9	15	11
5	2.0	0.36	0.26	1.4	0.33	3.7	0.61	0.00	0.00	11	12	15
6	1.8	0.28	0.26	1.1	0.29	2.6	0.35	0.00	0.00	12	11	21
7	1.6	0.23	0.23	0.98	0.45	2.1	0.21	0.00	0.00	11	9.4	22
8	1.4	0.23	0.72	0.86	0.58	1.7	0.11	0.00	0.00	7.8	9.9	20
9	1.2	0.23	0.79	0.74	0.51	1.5	0.05	0.00	0.00	5.8	8.5	17
10	1.0	0.23	0.64	0.64	0.43	1.2	0.03	0.00	0.00	5.4	7.5	14
11	0.88	0.23	0.54	0.57	0.39	0.99	0.02	0.00	0.00	4.9	6.4	11
12	0.78	0.22	0.45	0.51	0.34	0.80	0.08	0.00	0.00	5.3	5.7	10
13	0.68	0.24	0.39	0.61	0.30	0.73	0.46	0.00	0.00	12	5.4	11
14	0.61	0.32	0.29	1.0	0.27	0.70	0.34	0.00	0.00	18	6.4	10
15	0.80	0.36	0.19	1.6	0.25	0.60	0.23	0.00	0.05	12	12	9.8
16	0.72	0.31	0.19	1.4	0.24	0.49	0.15	0.00	0.13	8.4	9.6	9.0
17	0.58	0.26	0.19	1.1	0.24	0.42	0.29	0.00	0.63	6.3	9.2	8.1
18	0.49	0.29	0.19	0.96	0.23	0.33	0.64	0.00	3.3	5.0	9.0	7.4
19	0.42	0.28	0.17	0.84	0.20	0.27	0.33	0.00	4.6	4.0	9.2	6.6
20	0.32	0.30	0.16	0.77	0.19	0.24	0.19	0.00	2.6	3.5	8.7	7.5
21	0.41	0.34	0.14	0.64	0.17	0.20	0.09	0.00	1.3	16	7.4	7.2
22	0.54	0.34	0.13	0.55	0.24	0.17	0.04	0.00	1.1	39	6.4	7.6
23	0.54	0.33	0.11	0.53	1.6	0.14	0.02	0.00	1.1	36	5.6	6.6
24	0.62	0.31	0.19	0.52	2.9	0.12	0.00	0.00	0.94	27	4.8	6.1
25	0.65	0.33	0.17	0.48	2.2	0.11	0.00	0.00	1.3	23	4.1	6.8
26	0.55	0.34	0.16	0.48	1.5	0.15	0.00	0.00	1.4	20	3.5	6.9
27	0.46	0.34	0.15	0.48	1.1	0.13	0.00	0.00	1.2	17	3.5	7.3
28	0.35	0.30	0.14	0.48	0.87	0.11	0.00	0.00	2.0	18	3.5	6.9
29	0.29	0.26	0.14	0.45	---	0.07	0.00	0.00	1.8	25	3.9	6.2
30	0.25	0.25	0.14	0.41	---	0.05	0.00	0.00	2.7	19	13	5.3
31	0.22	---	0.14	0.51	---	0.03	---	0.00	---	16	21	---
TOTAL	33.36	8.58	8.27	27.25	17.51	24.96	5.25	0.00	26.15	425.9	273.6	329.3
MEAN	1.08	0.29	0.27	0.88	0.63	0.81	0.17	0.000	0.87	13.7	8.83	11.0
MAX	4.4	0.36	0.79	2.8	2.9	3.7	0.73	0.00	4.6	39	21	24
MIN	0.22	0.21	0.11	0.14	0.17	0.03	0.00	0.00	0.00	3.5	3.5	5.3
IN.	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.11	0.07	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	5.17	3.12	5.33	7.56	6.13	8.01	4.13	1.40	1.57	6.71	8.71	13.0							
MAX	22.5	16.5	45.0	59.1	52.4	53.1	35.4	18.6	10.2	27.5	27.1	77.2							
(WY)	1996	1989	1998	1998	1998	1998	1987	1987	1984	1987	1984	1988							
MIN	0.45	0.039	0.14	0.31	0.32	0.046	0.000	0.000	0.001	0.41	1.49	1.17							
(WY)	2001	2001	2001	1997	1997	2000	2000	1985	1998	1992	1993	1999							

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1984 - 2002

ANNUAL TOTAL	485.95	1180.13		
ANNUAL MEAN	1.33	3.23		
HIGHEST ANNUAL MEAN			5.91	
LOWEST ANNUAL MEAN			21.2	1998
HIGHEST DAILY MEAN	34	Sep 15	1.04	2000
LOWEST DAILY MEAN	0.00	Many Days	242	Sep 9 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 12	0.00	Many Days
MAXIMUM PEAK FLOW			0.00	Apr 27 1985
MAXIMUM PEAK STAGE			43	Jul 21
ANNUAL RUNOFF (INCHES)	0.12		294	Sep 9 1988
10 PERCENT EXCEEDS	4.2		52.39	Jul 21
50 PERCENT EXCEEDS	0.36		54.37	Sep 9 1988
90 PERCENT EXCEEDS	0.00		0.29	
			16	
			0.49	1.6
			0.00	0.00

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV 15...	1013	50.97	.38	--	1.6	5.9	176	18.2	--	--	--	--	--
JUL 15...	1144	51.71	12	--	2.7	5.7	135	25.0	--	--	--	--	--
29...	1019	52.00	26	--	2.6	6.1	105	24.4	--	--	--	--	--
AUG 14...	0957	51.36	5.3	400	3.7	7.2	127	23.8	19.0	1.70	2.00	6.1	13.0
SEP 03...	1340	51.77	12	320	2.5	6.4	104	26.0	16.0	1.40	2.10	5.1	11.0
18...	1109	51.59	7.4	--	2.5	6.0	108	25.7	--	--	--	--	--

Date	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 (MG/L AS N) (00630)	NITRO-GEN, NITRITE (MG/L AS N) (00615)	PHOS-PHORUS ORTHO (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV 15...	--	--	--	--	E1.5	.03	<.020	<.01	.020	E.03	--
JUL 15...	--	--	--	--	2.2	.05	<.020	.01	.040	.04	--
29...	--	--	--	--	1.7	.03	.030	.01	.030	.05	--
AUG 14...	<.1	7.00	1.20	169	2.4	.04	.040	.02	.050	.06	32.0
SEP 03...	<.1	6.10	1.40	153	1.8	.02	<.020	.01	.030	.04	26.0
18...	--	--	--	--	1.7	.02	<.020	.01	.050	.07	--

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

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" (1927 North American datum), in NW¼ 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	1.1	0.12	0.46	2.5	4.7	0.20	0.00	0.02	1.1	67	87
2	22	0.98	0.13	2.4	2.5	4.3	0.17	0.00	0.01	2.6	59	117
3	17	0.92	0.15	5.4	2.4	4.3	0.35	0.00	0.00	10	69	111
4	14	0.88	0.13	6.3	2.2	11	0.77	0.01	0.00	12	110	88
5	11	1.0	0.12	6.2	2.0	11	0.87	0.00	0.00	14	99	87
6	9.8	1.0	0.14	6.7	1.8	9.3	0.76	0.00	0.00	15	78	110
7	8.9	0.92	0.18	6.5	2.0	8.5	0.51	0.00	0.00	15	64	148
8	8.1	0.80	0.90	5.9	2.6	7.5	0.28	0.00	0.00	14	53	125
9	6.6	0.69	1.4	5.4	2.5	6.6	0.14	0.00	0.00	14	42	108
10	5.5	0.73	2.1	4.9	2.5	5.9	0.10	0.00	0.00	13	33	92
11	4.6	0.75	2.6	4.3	2.5	5.2	0.07	0.00	0.00	12	26	78
12	3.9	0.72	2.8	3.9	2.5	4.7	0.10	0.00	0.00	21	21	71
13	3.3	0.67	2.7	4.3	2.3	4.3	0.18	0.00	0.00	45	18	69
14	3.4	0.67	2.5	5.2	2.1	3.9	0.12	0.00	0.00	57	16	71
15	5.1	0.64	2.2	7.2	1.9	3.4	0.07	0.00	0.02	61	16	73
16	4.3	0.58	2.0	7.0	1.7	3.0	0.06	0.00	0.07	61	23	68
17	3.6	0.50	1.7	6.5	1.6	2.7	0.05	0.00	0.27	46	35	59
18	3.1	0.43	1.7	6.1	1.3	2.3	0.07	0.00	0.53	30	39	50
19	2.7	0.38	1.4	5.3	1.1	1.9	0.04	0.00	0.37	20	67	43
20	2.4	0.38	1.1	4.7	0.90	1.6	0.04	0.00	0.32	18	93	53
21	2.3	0.38	0.87	4.3	0.72	1.2	0.02	0.00	0.16	16	75	42
22	2.8	0.33	0.70	3.9	0.78	0.89	0.01	0.00	0.41	23	57	43
23	2.7	0.32	0.59	3.6	3.6	0.66	0.02	0.00	0.64	95	42	37
24	2.7	0.29	0.83	3.4	7.3	0.51	0.01	0.00	0.47	148	31	32
25	2.6	0.26	1.0	3.1	7.6	0.42	0.01	0.00	0.37	111	23	33
26	2.4	0.24	1.0	2.9	7.3	0.69	0.00	0.00	0.67	90	17	39
27	2.0	0.21	0.88	2.7	6.5	0.94	0.00	0.00	0.35	104	15	42
28	1.7	0.19	0.74	2.6	5.4	0.94	0.00	0.03	0.65	99	15	39
29	1.6	0.15	0.66	2.4	---	0.67	0.00	0.03	1.7	107	14	34
30	1.4	0.14	0.59	2.4	---	0.47	0.00	0.02	0.91	98	25	28
31	1.2	---	0.50	2.6	---	0.30	---	0.02	---	78	77	---
TOTAL	190.7	17.25	34.43	138.56	80.10	113.79	5.02	0.11	7.94	1450.7	1419	2077
MEAN	6.15	0.57	1.11	4.47	2.86	3.67	0.17	0.004	0.26	46.8	45.8	69.2
MAX	28	1.1	2.8	7.2	7.6	11	0.87	0.03	1.7	148	110	148
MIN	1.2	0.14	0.12	0.46	0.72	0.30	0.00	0.00	0.00	1.1	14	28
CFSM	0.03	0.00	0.01	0.02	0.02	0.02	0.00	0.00	0.00	0.26	0.25	0.38
IN.	0.04	0.00	0.01	0.03	0.02	0.02	0.00	0.00	0.30	0.29	0.29	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	25.6	10.4	18.7	24.2	28.8	29.9	12.9	6.53	11.8	27.8	52.2	67.7
MAX	120	75.8	296	178	183	190	102	98.7	126	151	266	329
(WY)	1996	1998	1998	1998	1998	1998	1987	1979	1974	1974	1965	1988
MIN	0.81	0.24	0.41	0.39	0.79	0.17	0.001	0.000	0.000	0.000	3.06	2.84
(WY)	2001	2001	2000	2001	1997	2000	2000	1985	2000	1981	1989	1999

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1964 - 2002

ANNUAL TOTAL	2398.50	5534.60	
ANNUAL MEAN	6.57	15.2	26.4
HIGHEST ANNUAL MEAN			88.5
LOWEST ANNUAL MEAN			3.01
HIGHEST DAILY MEAN	148	Sep 16	1420
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 18	0.00
MAXIMUM PEAK FLOW			160
MAXIMUM PEAK STAGE			21.34
ANNUAL RUNOFF (CFSM)	0.037		0.084
ANNUAL RUNOFF (INCHES)	0.50		1.14
10 PERCENT EXCEEDS	20		61
50 PERCENT EXCEEDS	0.72		2.3
90 PERCENT EXCEEDS	0.00		0.00

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 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 15...	1108	17.80	.69	--	4.5	6.7	300	18.5	--	--	--	--	--
JAN 24...	0955	18.21	3.4	120	5.0	6.6	242	19.0	36.0	3.10	1.30	8.6	19.0
APR 02...	1150	17.54	.20	100	3.7	6.3	316	21.2	51.0	4.00	1.90	7.5	--
JUL 15...	1053	20.41	62	240	5.0	6.0	162	25.3	25.0	2.10	1.60	6.3	12.0
JUL 29...	1102	20.89	105	--	5.6	6.3	105	24.7	--	--	--	--	--
SEP 03...	1252	20.94	111	320	5.6	6.6	104	26.2	17.0	1.40	1.50	4.4	8.10

Date	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
NOV 15...	--	--	--	--	E1.5	.05	.040	<.01	.030	E.02	--
JAN 24...	<.1	7.60	11.0	193	1.3	<.01	<.020	<.01	.020	.27	120
APR 02...	--	7.60	--	--	1.1	.14	.060	.01	.060	.07	210
JUL 15...	<.1	6.20	13.0	166	1.6	.03	<.020	.01	.020	.04	64.0
JUL 29...	--	--	--	--	1.6	.01	<.020	.01	.020	.04	--
SEP 03...	<.1	5.40	1.40	137	1.6	.01	.020	.01	.020	.04	37.0

Remark codes used in this report:

< -- Less than

E -- Estimated value

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310500 WEEKI WACHEE SPRINGS NEAR BROOKSVILLE, FL

LOCATION.--Lat 28°31'00", long 82°34'25" (1927 North American datum), 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.

PERIOD OF RECORD.--1917, 1929-30 (one discharge measurement in each year); February 1931 to June 1966 (discharge measurements only); July 1966 to current year (gage heights and discharge measurements only), incomplete.

GAGE.--Nonrecording gage read once daily. Datum of gage is 8.12 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Missing record due to observer failing to read gage. Discharge measurements made about 1.0 mi downstream from head of springs.

AVERAGE DISCHARGE.--536 measurements, 171 ft³/s, 111 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, 0.08 ft, June 11, 12, 14, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 1.20 ft, Sept. 15; minimum observed, 0.08 ft, June 11, 12, 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.07	1.08	---	---	---	---	0.50	0.28	0.14	0.50	0.91	1.12
2	1.07	1.07	---	---	---	---	0.50	0.28	0.13	0.53	0.93	1.12
3	1.07	1.07	---	---	---	---	0.49	0.27	0.13	0.53	0.94	1.12
4	1.08	1.05	---	---	---	---	0.50	0.26	0.12	0.55	0.94	1.12
5	1.08	1.05	---	---	---	---	0.47	---	0.12	0.57	0.95	1.14
6	1.08	1.05	---	---	---	---	0.46	---	0.11	0.58	0.95	1.14
7	1.06	1.05	---	---	---	0.62	0.42	---	0.10	0.59	0.94	1.16
8	1.06	1.03	---	---	---	0.63	0.40	---	0.10	0.60	0.95	1.17
9	1.05	1.03	---	---	---	0.62	0.38	---	0.10	0.62	0.95	1.17
10	1.05	1.03	---	---	---	0.61	0.37	---	0.09	0.64	0.95	1.17
11	1.07	1.00	---	0.68	---	0.60	0.38	---	0.08	0.66	0.92	1.18
12	1.07	1.00	---	---	---	0.61	---	---	0.08	0.66	0.93	1.18
13	1.07	1.00	---	---	---	0.63	0.39	---	0.10	0.68	0.96	1.19
14	1.10	0.90	---	---	---	0.64	0.38	---	0.08	0.69	0.98	1.18
15	1.10	0.90	---	---	---	0.64	0.37	---	0.10	0.70	1.00	1.20
16	1.10	0.90	---	---	---	0.63	0.36	---	0.18	0.70	1.02	1.19
17	1.10	0.90	0.81	---	---	0.62	0.34	---	0.22	0.69	1.01	1.18
18	1.10	---	---	---	---	0.62	0.34	---	0.25	0.71	1.02	1.16
19	1.10	---	---	---	---	0.62	0.34	0.19	0.28	0.72	1.02	1.17
20	1.10	---	---	---	---	0.60	0.35	0.19	0.26	0.72	1.02	1.18
21	1.13	---	---	---	---	0.62	0.33	0.18	0.26	0.73	1.02	1.17
22	1.10	---	---	---	---	0.60	0.34	0.18	0.26	0.74	1.02	1.17
23	1.10	---	---	---	---	0.58	0.33	0.18	0.30	0.75	1.01	1.16
24	1.10	---	---	---	---	0.57	0.33	0.17	0.37	0.75	1.00	1.16
25	1.10	---	---	---	---	0.57	0.32	0.16	0.38	0.76	1.00	1.16
26	1.10	---	---	---	---	0.56	0.32	0.15	0.40	0.83	1.00	1.17
27	1.10	---	---	---	---	0.55	0.32	0.16	0.41	0.84	1.00	1.16
28	1.08	---	---	---	0.62	0.54	0.30	0.15	0.43	0.86	1.00	1.15
29	1.08	---	---	---	---	0.53	0.30	0.15	0.47	0.86	1.02	1.14
30	1.07	---	---	---	---	0.49	0.29	0.15	0.48	0.90	1.06	1.12
31	1.08	---	---	---	---	0.50	---	0.16	---	0.91	1.10	---
MEAN	1.08	---	---	---	---	---	---	---	0.22	0.70	0.98	1.16
MAX	1.13	---	---	---	---	---	---	---	0.48	0.91	1.10	1.20
MIN	1.05	---	---	---	---	---	---	---	0.08	0.50	0.91	1.12

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310525 WEEKI WACHEE RIVER NEAR BROOKSVILLE, FL

LOCATION.--Lat 28°31'07", long 82°34'57" (1927 North American datum), in NE $\frac{1}{4}$ sec.2, T.23 S., R.17 E., Hernando County, Hydrologic Unit 03100207, on right bank, 0.6 mi west of intersection U.S. Highway 19 and State Highway 50, 6.2 mi upstream from mouth, and 12 mi southwest of Brooksville.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Nonrecording gage. Datum of gage has not been determined.

REMARKS.--Records fair. Discharge measurements made about 1.0 mi downstream from head of springs. Discharge computed from relation between artesian pressure at Weeki Wachee Well near Weeki Wachee using maximum daily water level elevation and discharge at measuring site. See WRIR 01-4230 for computation techniques.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	157	147	137	133	127	121	114	108	123	145	161
2	164	157	147	137	133	127	121	114	107	124	146	163
3	164	156	146	138	133	127	120	114	107	125	147	164
4	164	157	146	138	132	127	120	114	107	126	147	165
5	164	156	145	138	132	127	120	113	106	127	148	166
6	164	156	145	138	132	127	120	113	107	128	149	167
7	164	155	145	138	131	127	120	112	107	128	149	168
8	164	155	144	138	131	127	119	112	106	129	149	168
9	164	154	144	138	131	127	119	112	106	130	150	169
10	163	154	144	137	131	127	118	112	106	131	150	169
11	163	154	144	137	131	126	118	112	106	132	150	169
12	163	154	143	137	131	126	118	111	105	132	150	170
13	163	153	142	137	130	126	118	111	105	133	151	170
14	163	153	142	137	130	126	118	111	105	133	151	171
15	163	152	142	137	129	126	118	110	106	134	152	171
16	162	152	141	137	129	126	118	110	107	134	153	172
17	162	152	141	136	129	125	117	111	109	135	154	172
18	161	151	141	136	129	125	117	111	110	135	154	172
19	161	151	141	136	129	125	117	111	110	136	155	172
20	161	151	140	136	128	124	117	111	111	136	155	172
21	161	151	140	136	128	124	117	111	112	136	155	172
22	161	150	140	136	128	124	116	110	112	137	156	172
23	161	150	140	135	128	124	116	110	114	137	157	172
24	161	150	139	135	128	123	116	110	115	137	157	172
25	160	149	139	135	128	123	116	110	116	138	156	172
26	159	149	139	135	128	123	115	109	117	139	157	172
27	159	149	138	134	128	123	115	109	118	139	157	172
28	159	148	138	134	128	122	115	109	119	140	157	172
29	158	148	138	134	---	122	115	108	120	141	158	171
30	158	148	138	134	---	122	115	108	121	142	159	171
31	158	---	137	133	---	121	---	108	---	143	160	---
TOTAL	5016	4572	4396	4224	3638	3876	3530	3441	3305	4140	4734	5089
MEAN	162	152	142	136	130	125	118	111	110	134	153	170
MAX	164	157	147	138	133	127	121	114	121	143	160	172
MIN	158	148	137	133	128	121	115	108	105	123	145	161

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

MEAN	158	157	152	150	150	146	142	134	130	138	149	157
MAX	212	204	194	187	211	226	221	209	194	185	188	194
(WY)	1999	1999	1999	1998	1998	1998	1998	1998	1998	1998	1998	1998
MIN	127	135	127	122	119	116	116	109	104	108	120	123
(WY)	1998	2001	1994	1994	2001	2001	2001	2001	1994	1994	1997	1997

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1994 - 2002	
ANNUAL TOTAL	47880		49961			
ANNUAL MEAN	131		137			
HIGHEST ANNUAL MEAN					147	
LOWEST ANNUAL MEAN					186	1998
HIGHEST DAILY MEAN	164	Sep 27	172	Sep 16	229	Mar 28 1998
LOWEST DAILY MEAN	104	Jun 18	105	Jun 12	101	Jun 29 1994
ANNUAL SEVEN-DAY MINIMUM	104	Jun 16	106	Jun 8	102	Jun 26 1994
10 PERCENT EXCEEDS	159		164		187	
50 PERCENT EXCEEDS	123		136		143	
90 PERCENT EXCEEDS	107		111		116	

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310600 GULF OF MEXICO NEAR BAYPORT, FL

LOCATION.--Lat 28°32'00", long 82°39'01" (1927 North American datum), on line between secs. 25 and 36, T.22 S., R.16 E., Hernando County, Hydrologic Unit 03100207, at mouth of Weeki Wachee River, on Florida Department of Transportation pier at terminus of County Road 550, and 1.1 mi southwest of Bayport.

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, 3.70 ft, July 13; minimum, 2.11 ft below NGVD, Mar. 5.

TIDE STAGE, ABOVE DATUM, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
1	1.72	-1.02	2.34	-1.10	2.75	-1.45	2.14	-1.79	2.04	-1.53	1.43	-1.87
2	2.15	-0.91	2.68	-1.14	2.48	-1.60	1.94	-1.47	1.78	-1.42	3.28	-0.51
3	2.48	-0.87	2.78	-1.09	2.32	-1.68	2.38	-0.77	1.59	-1.38	3.12	0.11
4	2.51	-0.91	2.54	-1.30	1.81	-1.73	0.52	-1.78	1.11	-0.81	1.59	-1.21
5	2.59	-0.67	2.07	-1.44	1.61	-1.67	1.61	-1.17	1.07	-1.86	0.73	-2.11
6	2.80	-0.71	1.85	-1.23	1.39	-1.41	3.00	-0.48	2.55	-1.81	1.10	-1.95
7	2.92	-0.90	2.04	-0.86	1.56	-1.21	0.85	-0.91	2.16	-0.51	1.52	-1.57
8	1.80	-1.35	2.09	-0.76	2.24	-0.38	0.87	-1.82	1.33	-1.72	1.44	-1.50
9	1.55	-1.83	1.98	-0.87	1.98	-0.73	1.34	-1.79	1.06	-1.76	1.56	-1.56
10	1.77	-1.12	2.13	-0.70	2.21	-1.03	2.06	-1.75	1.84	-1.64	0.85	-1.47
11	2.32	-0.71	2.55	-0.43	2.38	-1.17	1.17	-1.65	2.11	-1.48	1.00	-1.89
12	2.53	-0.45	2.26	-0.90	2.50	-1.42	2.07	-1.69	2.03	-1.61	1.95	-1.44
13	3.18	-0.01	1.90	-1.41	1.58	-1.49	2.81	-1.57	1.94	-1.51	2.26	-0.83
14	3.37	-0.27	2.21	-1.41	2.81	-1.39	2.14	-1.50	1.66	-1.62	2.00	-1.22
15	2.58	-0.70	1.94	-1.18	2.79	-1.43	2.75	-1.41	1.63	-1.35	1.98	-1.25
16	2.55	-0.89	2.19	-1.39	2.12	-1.65	1.59	-1.71	1.91	-1.11	2.07	-1.18
17	2.32	-1.61	1.92	-1.72	2.38	-1.29	1.55	-1.58	1.65	-1.16	1.93	-1.37
18	1.30	-1.61	1.83	-1.63	3.54	-1.08	1.60	-1.44	1.22	-1.65	2.07	-0.72
19	1.75	-1.41	2.08	-1.27	2.19	-0.98	1.77	-1.20	2.02	-1.59	2.10	-1.44
20	2.52	-1.07	2.29	-0.84	2.04	-1.38	1.44	-1.17	2.65	-0.77	2.13	-1.22
21	2.36	-1.00	2.48	-0.55	0.70	-1.37	1.29	-0.69	1.93	-0.38	2.23	-0.70
22	2.51	-0.70	1.86	-0.24	1.51	-0.82	1.14	-1.03	1.77	-1.18	1.55	-1.04
23	2.35	-0.37	1.78	0.09	2.29	-0.31	1.54	-1.41	1.47	-1.36	1.38	-1.95
24	2.39	0.07	1.75	---	2.20	-0.25	2.11	-1.53	2.07	-1.70	2.02	-1.80
25	2.20	-0.38	1.75	-0.29	1.85	-0.99	1.76	-1.47	1.45	-1.79	2.31	-1.50
26	0.56	-1.19	1.84	-0.59	1.91	-0.90	1.21	-1.71	2.64	-1.54	2.07	-1.50
27	0.27	-0.74	2.21	-1.06	2.33	-1.70	1.79	-1.85	3.22	-1.16	2.46	-1.35
28	0.70	-1.47	2.60	-1.26	1.74	-1.31	2.24	-1.82	1.59	-1.71	2.31	-1.49
29	0.96	-1.53	2.27	-1.09	3.15	-0.84	2.54	-1.71	---	---	2.21	-1.41
30	1.46	-1.40	2.65	-1.27	2.83	-1.53	2.52	-1.72	---	---	2.51	-1.33
31	1.96	-1.15	---	---	2.25	-1.69	2.36	-1.62	---	---	3.00	-0.91
MAX	3.37	0.07	2.78	---	3.54	-0.25	3.00	-0.48	3.22	-0.38	3.28	0.11
MIN	0.27	-1.83	1.75	---	0.70	-1.73	0.52	-1.85	1.06	-1.86	0.73	-2.11

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA
 COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER
 02310600 GULF OF MEXICO NEAR BAYPORT, FL--Continued

DAY	TIDE STAGE, ABOVE DATUM, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002											
	HIGH APRIL	LOW	HIGH MAY	LOW	HIGH JUNE	LOW	HIGH JULY	LOW	HIGH AUGUST	LOW	HIGH SEPTEMBER	LOW
1	2.41	0.10	2.68	-1.21	2.16	-0.88	1.55	-0.88	2.08	-0.33	2.08	-0.40
2	2.53	-1.40	2.29	-0.92	1.84	-0.72	1.44	-0.76	2.26	-0.19	2.35	-0.51
3	2.33	-1.24	2.27	-0.74	1.73	-0.41	1.64	-0.49	2.37	-0.55	2.85	-0.46
4	1.90	-0.98	1.87	-0.76	1.62	-0.35	2.04	-0.61	2.35	-0.59	3.24	-0.49
5	1.25	-0.98	1.52	-0.74	1.82	-0.31	1.96	-0.91	2.27	-0.80	3.45	-0.75
6	1.03	-1.68	1.33	-1.12	2.20	-0.24	2.07	-0.91	2.54	-0.81	3.37	-0.63
7	0.90	-1.68	2.05	-1.03	2.38	-0.68	2.28	-1.14	2.83	-1.23	3.29	-0.71
8	1.61	-1.42	2.30	-0.76	2.49	-1.00	2.25	-1.30	2.70	-1.29	2.86	-0.67
9	2.31	-0.75	2.59	-0.45	2.37	-1.28	2.70	-1.18	2.91	-1.24	2.66	-0.76
10	2.16	-1.01	2.60	-0.81	2.80	-1.29	2.68	-1.04	2.61	-1.04	2.48	-0.65
11	2.19	-1.01	2.56	-1.13	2.81	-1.29	3.00	-0.91	2.51	-0.86	2.83	-0.61
12	2.33	-1.10	2.81	-0.95	3.13	-1.05	3.16	-0.88	2.37	-0.59	2.91	-0.32
13	2.36	-1.00	2.95	-0.70	3.13	-0.95	3.70	1.22	2.30	-0.47	2.27	-0.44
14	2.53	-1.28	2.45	0.20	2.99	-0.32	2.56	-0.40	2.35	-0.51	2.08	-0.25
15	2.51	-1.32	2.09	-1.35	2.83	0.75	2.03	-0.74	2.33	-0.39	1.96	-0.46
16	2.41	-0.46	2.35	-1.63	2.49	-0.63	1.84	-0.67	2.11	-0.67	2.13	-0.81
17	2.31	-1.40	2.50	-1.36	2.36	-0.52	2.04	-0.47	2.14	-0.47	2.28	-0.71
18	2.22	-1.31	2.39	-0.84	1.89	-0.63	2.03	-0.73	2.31	-0.76	2.46	-0.86
19	2.23	-1.35	1.58	-0.57	2.24	-0.48	2.48	-0.82	2.59	-0.96	2.81	-0.79
20	1.87	-1.23	0.94	-1.46	2.03	-1.08	2.52	-0.99	2.76	-0.92	3.05	-0.32
21	1.84	-1.01	0.73	-1.61	2.35	-1.29	2.50	-1.19	2.90	-0.84	3.16	-0.07
22	2.22	-0.98	0.65	-1.64	2.63	-0.80	2.93	-1.02	2.87	-0.86	2.91	-0.21
23	1.76	-0.70	1.72	-1.39	2.78	-1.18	2.77	-1.08	2.78	-0.78	2.86	-0.15
24	1.85	-1.38	2.72	-0.94	2.84	-1.19	2.95	-0.98	2.83	-0.57	2.56	-0.33
25	2.52	-0.85	3.12	-0.98	2.94	-1.11	2.89	-0.97	2.72	-0.31	2.67	-0.22
26	2.52	-1.14	3.15	-1.10	2.99	-1.00	2.74	-0.96	2.71	-0.33	3.02	0.68
27	2.76	-1.08	2.91	-1.24	2.84	-1.03	2.49	-0.92	2.27	-0.18	3.20	0.28
28	3.06	-1.14	3.14	-1.16	2.69	-0.12	2.07	-0.90	2.32	-0.16	2.47	-0.38
29	2.77	-1.06	3.03	0.48	2.34	-1.00	2.25	-0.41	2.22	-0.48	2.11	-0.68
30	2.73	0.11	2.75	-1.00	1.53	-0.89	1.96	-0.40	2.15	-0.36	1.91	-0.76
31	---	---	2.56	-1.03	---	---	1.94	-0.26	2.29	-0.31	---	---
MAX	3.06	0.11	3.15	0.48	3.13	0.75	3.70	1.22	2.91	-0.16	3.45	0.68
MIN	0.90	-1.68	0.65	-1.64	1.53	-1.29	1.44	-1.30	2.08	-1.29	1.91	-0.86

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310650 CHASSAHOWITZKA RIVER NEAR HOMOSASSA, FL

LOCATION.--Lat 28°42'54", long 82°34'35" (1927 North American datum), in SW¼ 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.

PERIOD OF RECORD.--January 1964 to September 1965 (gage-heights and periodic discharge measurements only); October 1965 to September 1977 (periodic discharge measurements and maximum and minimum gage heights only); October 1977 to September 1978, July 1985 to December 1985, October 1988 (periodic discharge measurements and maximum and minimum elevations only); February 1997 to September 1998 (discharge, gage-heights and periodic discharge measurements), incomplete; October 1998 to current year (incomplete).

GAGE.--Water-stage recorder. Datum of gage is 5.10 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS.--Records poor. Missing data is not estimated because it is affected by tide. Discharge measurements made about 200 ft downstream from head of springs; measurements made prior to November 1997 include flow from Crab Creek. Discharge computed from relation between artesian pressure at Weeki Wachee Well near Weeki Wachee, using maximum daily water level elevation, gage heights in the spring run, rate of change in stage, and field measurements. See WRIR 01-4230 for computation techniques.

EXTREMES FOR PERIOD JANUARY 1964 TO OCTOBER 1988.--Maximum discharge measured, 208 ft³/s, Jan. 8, 1973; maximum gage height, 5.16 ft, Sept. 10, 1964; minimum discharge measured, 25 ft³/s, Aug. 16, 1985; minimum gage height, 0.05 ft below NGVD, Aug. 7, 8, 1977.

EXTREMES FOR PERIOD FEBRUARY 1997 TO CURRENT YEAR.--Maximum discharge measured, 104 ft³/s, Oct. 17, 2000; minimum discharge measured, -48.2 ft³/s, Dec. 13, 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	59	60	56	54	54	51	46	46	53	57	57
2	---	60	58	53	55	42	48	46	47	53	55	62
3	---	59	59	57	54	48	47	47	47	51	---	62
4	60	62	60	58	57	60	52	48	---	55	---	58
5	59	63	59	54	56	54	55	51	---	57	---	59
6	59	59	57	48	42	53	52	51	---	55	---	59
7	64	58	57	64	56	50	54	48	---	54	57	60
8	66	56	51	57	58	53	47	49	---	54	60	63
9	65	59	60	56	55	54	50	47	---	53	58	61
10	61	60	55	55	54	55	52	47	47	52	60	61
11	56	58	57	58	54	54	50	48	47	50	59	59
12	---	62	58	54	53	49	49	46	43	50	58	59
13	56	64	58	56	54	52	---	45	43	---	58	64
14	58	63	56	52	54	52	---	47	42	---	58	64
15	67	60	59	56	53	52	---	50	43	---	60	62
16	60	61	58	56	53	51	---	---	47	---	59	67
17	65	61	---	56	53	52	---	---	46	---	61	64
18	64	61	58	56	56	51	---	43	52	55	---	64
19	62	59	55	53	50	51	---	56	53	57	---	63
20	61	56	59	57	46	48	---	50	53	57	58	61
21	61	57	58	55	53	49	---	51	52	55	58	61
22	59	57	55	57	52	55	---	51	46	53	59	62
23	56	59	47	52	57	52	---	50	49	55	60	61
24	55	54	61	50	52	48	---	47	48	54	58	62
25	61	60	54	58	54	53	---	46	48	54	58	56
26	72	60	57	59	51	52	---	46	48	---	59	53
27	65	58	54	55	51	50	---	47	49	---	56	63
28	65	58	54	54	54	51	---	46	51	---	62	64
29	65	56	55	54	---	50	---	44	52	---	60	66
30	63	58	58	---	---	49	---	46	54	---	63	65
31	61	---	56	---	---	45	---	48	---	56	61	---
TOTAL	---	1777	---	---	1491	1589	---	---	---	---	---	1842
MEAN	---	59.2	---	---	53.2	51.3	---	---	---	---	---	61.4
MAX	---	64	---	---	58	60	---	---	---	---	---	67
MIN	---	54	---	---	42	42	---	---	---	---	---	53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

MEAN	59.0	58.4	58.6	58.8	57.0	56.7	55.7	52.0	53.3	56.6	59.4	60.5
MAX	74.8	73.5	71.6	72.2	73.1	78.8	76.3	70.4	67.1	65.9	69.4	68.3
(WY)	1999	1999	1999	1998	1998	1998	1998	1998	1998	1998	1998	1998
MIN	44.3	48.4	52.3	51.8	50.1	46.5	47.6	45.6	45.7	48.7	52.9	53.9
(WY)	1998	1998	1998	2001	2001	2001	2001	2001	2000	2001	2000	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1998 - 2002

HIGHEST DAILY MEAN	72	Oct 26	72	Oct 26	84	Feb 24 1998
LOWEST DAILY MEAN	32	Jul 23	42	Feb 6	32	Oct 24 1997
ANNUAL SEVEN-DAY MINIMUM	43	May 23	44	Jun 11	39	Oct 21 1997
10 PERCENT EXCEEDS	61		62		72	
50 PERCENT EXCEEDS	52		55		56	
90 PERCENT EXCEEDS	44		47		46	

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310678 HOMOSASSA SPRINGS AT HOMOSASSA SPRINGS, FL

LOCATION.--Lat 28°47'58", long 82°35'20" (1927 North American datum), in NE¼ sec.28, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, approximately 600 ft upstream of bridge on nature trail in Homosassa Springs, 0.8 mi west of town of Homosassa Springs, and 3.1 mi northeast of Homosassa.

PERIOD OF RECORD.--1931-33, 1936, 1956, 1961, 1963-65 (miscellaneous discharge measurements); August 1965 to September 1978, June 1988 to March 1989 (discharge measurements only); October 1995 to current year.

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

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Discharge computed from relation between artesian pressure at Weeki Wachee Well near Weeki Wachee, using maximum daily water level elevation, spring-pool stage, and discharge at measuring site. See WRIR 01-4230 for computation techniques.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e103	e90	85	89	87	95	73	71	e73	83	84	91
2	99	e87	89	91	90	82	79	70	e73	85	83	87
3	92	e86	92	83	93	70	76	73	e73	84	82	83
4	88	e89	97	101	93	83	78	76	e76	82	81	80
5	85	e97	98	99	102	104	85	79	e76	83	83	80
6	83	e95	97	81	94	102	91	84	e73	83	82	82
7	87	e90	95	89	73	94	92	81	e71	81	81	85
8	102	e87	e88	102	88	89	88	77	e72	84	90	88
9	106	e87	e85	99	92	87	76	73	e76	82	90	91
10	104	e88	e88	94	88	89	76	73	e75	79	90	87
11	92	e85	e86	89	88	96	79	75	e75	76	89	85
12	85	e85	e87	88	90	85	81	75	e70	74	88	82
13	81	e93	e86	82	91	78	79	71	e65	67	85	85
14	74	e99	e82	88	93	83	78	68	e64	68	85	88
15	85	e97	e82	84	94	85	78	81	e62	77	85	89
16	89	94	e89	95	87	84	81	---	e67	83	88	90
17	97	96	e84	94	88	84	81	---	e67	83	87	91
18	103	98	75	93	98	85	81	e68	e71	84	84	91
19	99	93	84	92	94	86	80	e74	e76	80	84	91
20	91	87	89	90	81	81	79	e91	e83	77	82	90
21	91	85	100	90	78	74	79	e92	e83	79	e84	86
22	88	86	97	95	82	87	78	e95	e76	79	85	85
23	85	86	86	94	89	92	78	e95	e72	79	86	86
24	81	86	77	88	92	88	83	e78	e72	80	85	85
25	e79	88	90	83	87	81	76	e71	e73	81	83	85
26	e98	90	89	88	80	78	73	e69	e73	82	83	76
27	e109	89	90	92	73	78	75	e71	74	83	82	73
28	e114	87	82	89	92	81	72	e72	77	84	82	83
29	e111	82	76	86	---	82	71	e70	79	84	87	92
30	e107	82	81	86	---	82	73	e69	81	83	89	95
31	e97	---	86	86	---	76	---	e70	---	85	92	---
TOTAL	2905	2684	2712	2800	2477	2641	2369	---	2198	2494	2641	2582
MEAN	93.7	89.5	87.5	90.3	88.5	85.2	79.0	---	73.3	80.5	85.2	86.1
MAX	114	99	100	102	102	104	92	---	83	85	92	95
MIN	74	82	75	81	73	70	71	---	62	67	81	73

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
MEAN	91.2	91.3	94.0	96.6	93.3	91.1	88.5	83.7	81.2	82.8	85.8	84.7
MAX	102	103	104	106	103	110	107	97.8	97.9	96.2	99.5	93.0
(WY)	1999	1999	1999	1998	1998	1998	1998	1998	1998	1998	1998	1996
MIN	81.5	81.0	87.5	89.7	87.6	77.8	77.3	75.5	73.3	73.5	78.1	75.3
(WY)	1998	2001	2002	2001	2001	2001	2000	2001	2002	2000	1997	1997

SUMMARY STATISTICS

WATER YEARS 1996 - 2002

ANNUAL MEAN	91.3
HIGHEST ANNUAL MEAN	97.8
LOWEST ANNUAL MEAN	83.6
HIGHEST DAILY MEAN	131
LOWEST DAILY MEAN	41
ANNUAL SEVEN-DAY MINIMUM	67
10 PERCENT EXCEEDS	107
50 PERCENT EXCEEDS	92
90 PERCENT EXCEEDS	75

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310688 SE FORK HOMOSASSA SPRING AT HOMOSASSA SPRINGS, FL

LOCATION.--Lat 28°47'50", long 82°35'24" (1927 North American datum), in NW¼ sec.28, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, at bridge on Fishbowl drive, 0.6 mi west of town Homosassa Springs, and 3.1 mi northeast of Homosassa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1932, 1933, 1936, 1946, 1956, 1963-65, 1976-86, 1997-2000 (discharge measurements only); October 2000 to current year.

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

REMARKS.--Records poor. Discharge computed from relation between artesian pressure at Weeki Wachee Well near Weeki Wachee, using maximum daily water level elevation, gage-heights in the spring run, rate of change in stage, and field measurements. See WRIR 01-4230 for computation techniques.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	55	61	64	61	52	52	58	46	---	63	56
2	63	55	59	69	65	50	57	57	46	---	65	57
3	66	56	66	70	67	44	52	58	48	---	55	57
4	56	56	72	65	64	40	54	59	48	---	53	58
5	57	55	65	58	62	44	55	55	49	---	54	59
6	58	53	60	60	61	55	54	53	49	---	58	61
7	64	54	61	57	60	59	52	53	49	---	62	59
8	66	50	56	52	60	58	52	56	50	---	62	58
9	82	47	55	59	58	50	51	52	49	---	61	59
10	76	49	54	67	57	51	52	48	48	---	61	63
11	66	55	54	58	60	53	50	49	46	---	62	67
12	63	55	53	54	61	50	52	49	38	---	62	64
13	61	52	54	63	63	45	51	49	48	---	64	65
14	56	51	52	60	62	56	51	52	51	---	60	71
15	55	61	56	60	59	47	49	51	53	---	54	69
16	54	54	51	60	55	49	53	48	53	58	55	62
17	54	---	49	60	56	58	55	51	53	64	57	61
18	55	---	66	58	69	66	67	52	53	50	56	59
19	56	---	54	53	64	64	60	51	52	50	54	58
20	59	---	70	57	58	42	55	48	50	49	56	58
21	58	---	63	70	56	50	54	---	---	50	57	57
22	59	---	65	65	53	58	56	---	---	---	59	60
23	66	---	72	67	56	57	53	---	---	---	60	61
24	67	---	70	63	58	55	51	48	48	---	61	59
25	61	---	71	61	54	52	51	45	50	55	63	61
26	55	---	70	66	54	54	61	44	59	58	63	68
27	53	---	56	60	57	61	60	47	---	60	62	65
28	53	---	45	59	53	61	54	46	---	62	63	65
29	51	---	62	57	---	44	59	44	52	63	62	72
30	54	---	61	51	---	47	60	49	---	61	60	77
31	56	---	69	54	---	51	---	52	---	62	58	---
MEAN	60.1	---	60.4	60.5	59.4	52.4	54.4	---	---	---	59.4	62.2
MAX	82	---	72	70	69	66	67	---	---	---	65	77
MIN	51	---	45	51	53	40	49	---	---	---	53	56

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 2002

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							
02295630	Thompson Branch near Wauchula, FL	Lat 27°31'47", long 81°49'03" (1927 North American datum), 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	1983-2002	07-03-02	7.39	149
02296260	Charlie Creek near Crewsville, FL	Lat 27°27'33", long 81°40'43" (1927 North American datum), 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	1981-2002	01-06-02	18.66	1,080
02297088	Hawthorn Creek near Nocatee, FL	Lat 27°09'02", long 81°51'31" (1927 North American datum), in NW ¹ / ₄ sec.30, T.37 S., R.25 E., De Soto County, Hydrologic Unit 03100101, at bridge on County Road 760-A, 1.2 mi above mouth, and 1.8 mi east of Nocatee. The annual gage height and maximum discharge data for the 1997 water year are in error. The corrected date is September 28, 1997. The corrected gage height is 14.35 ft and the corrected discharge is 1,977 cfs.	39	1983-2002	07-02-02	12.70	870

See footnotes at end of the table.

Annual maximum discharge at crest-stage partial-record stations during water year 2002

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" (1927 North American datum), 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	1981-2002	07-03-02	57.48	1,660
02297320	Horse Creek near Nocatee, FL	Lat 27°09'31", long 81°57'58" (1927 North American datum), 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	1981-2002	07-02-02	14.59	1,980
Little Manatee River Basin							
02300200	South Fork Little Manatee River near Duette, FL	Lat 27°35'25", long 82°10'57" (1927 North American datum), 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	1960-2002	07-14-02	3.56	257
Hillsborough River Basin							
02301743	North Archie Creek at 82nd Street near Tampa, FL	Lat 27°53'37", long 82°21'56" (1927 North American datum), in NW ¹ / ₄ sec.12, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on right culvert wingwall near right bank on 82nd Street, 0.4 mi south of Progress Village Boulevard, and 6.8 mi southeast of Tampa. Datum of gage is National Geodetic Vertical Datum of 1929.	7.53	1999-02	08-14-02	11.55	†
02302260	Itchepackesassa Creek near Knights, FL	Lat 28°04'49", long 82°04'24" (1927 North American datum), 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	1982-2002 2001 WY	† †	† †	† †

† Not determined

a Approximately

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 2002

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" (1927 North American datum), 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.	†	1935-01	10-23-01	78
					10-31-01	68
					11-06-01	67
					11-29-01	53
					12-21-01	55
					02-01-02	53
					02-28-02	54
					03-21-02	54
					04-26-02	48
					05-22-02	39
07-23-02	101					
08-26-02	118					
Pemberton Creek	Baker Creek	Lat 28°01'34", long 82°14'12" (1927 North American datum), 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	1956-01	11-07-01	4.0
					01-11-01	1.3
					03-29-02	1.9
					05-14-02	0
					05-17-02	0
					07-16-02	20
08-20-02	30					

a Approximately

† Undetermined

MISCELLANEOUS SURFACE WATER RECORDS
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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	GAGE HEIGHT (FEET) (00065)	COLOR (PLAT- INUM- COBAL T UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
02300200 SOUTH FORK LITTLE MANATEE RIVER NEAR DUETTE FL (LAT 27 35 25N LONG 082 10 57W)													
NOV 2001 29...	1130	-.84	--	5.6	7.3	307	19.9	--	--	--	--	--	--
JAN 2002 29...	1137	.12	--	5.3	7.1	300	21.3	--	--	--	--	--	--
MAR 27...	1314	-.19	80	5.5	7.7	363	22.4	35.0	13.0	8.80	9.0	16.0	.5
MAY 15...	1200	-.84	--	6.3	7.2	356	23.7	--	--	--	--	--	--
JUL 17...	1205	.91	--	4.9	6.2	160	27.7	--	--	--	--	--	--
SEP 04...	1331	.53	160	5.4	6.5	184	26.4	16.0	6.50	6.60	6.8	16.0	.3
02303200 PEMBERTON CREEK NEAR DOVER FL (LAT 28 01 34N LONG 082 14 12W)													
NOV 2001 27...	1216	51.13	--	7.9	7.8	264	19.6	--	--	--	--	--	--
JAN 2002 23...	0743	51.42	--	7.8	7.2	275	20.3	--	--	--	--	--	--
MAR 28...	1249	51.41	--	8.8	7.7	427	21.0	--	--	--	--	--	--
JUL 10...	0821	52.13	--	7.3	6.1	251	25.3	--	--	--	--	--	--
AUG 15...	1040	51.12	--	7.3	6.4	232	26.1	--	--	--	--	--	--
SEP 10...	0848	51.62	--	7.3	6.3	282	25.8	--	--	--	--	--	--
02307498 LAKE TARPON CANAL AT S-551, NEAR OLDSMAR FL (LAT 28 03 12N LONG 082 42 40W)													
APR 2002 02...	0951	--	20	7.2	7.1	1210	25.7	63.0	15.0	5.80	140	--	--
SEP 03...	1111	2.99	100	4.6	6.2	5110	30.0	68.0	91.0	31.0	790	1470	.2

MISCELLANEOUS SURFACE WATER RECORDS
 OCTOBER 2001 TO SEPTEMBER 2002

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

Date	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
02300200 SOUTH FORK LITTLE MANATEE RIVER NEAR DUETTE FL (LAT 27 35 25N LONG 082 10 57W)										
NOV 2001 29...	--	--	--	E.40	.01	.110	<.01	.520	E.50	--
JAN 2002 29...	--	--	--	.90	.04	.380	<.01	.760	.75	--
MAR 27...	7.00	68.0	250	.70	.06	.980	.01	.450	.45	1490
MAY 15...	--	--	--	.50	<.01	.200	<.01	.270	.29	--
JUL 17...	--	--	--	1.4	.04	.140	.01	.680	.71	--
SEP 04...	9.10	16.0	152	1.3	.02	.200	.01	.480	.51	350
02303200 PEMBERTON CREEK NEAR DOVER FL (LAT 28 01 34N LONG 082 14 12W)										
NOV 2001 27...	--	--	--	E1.1	.03	.120	.01	.420	E.81	--
JAN 2002 23...	--	--	--	1.0	.01	<.020	<.01	.390	.85	--
MAR 28...	--	--	--	.60	.01	<.020	<.01	.280	.34	--
JUL 10...	--	--	--	.90	.01	.180	.01	.380	.50	--
AUG 15...	--	--	--	1.1	.02	.130	.01	.350	.46	--
SEP 10...	--	--	--	.90	.02	.140	.01	.320	.41	--
02307498 LAKE TARPON CANAL AT S-551, NEAR OLDSMAR FL (LAT 28 03 12N LONG 082 42 40W)										
APR 2002 02...	2.00	--	--	.80	.03	<.020	<.01	.020	<.02	320
SEP 03...	2.70	190	2910	1.1	<.01	<.020	<.01	.010	.06	720

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

MISCELLANEOUS SURFACE WATER RECORDS
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The following data were collected as part of a cooperative project with the Florida Department of Environmental Protection. The purpose of the project is to collect water, biological, and sediment data to assess conditions in the Hillsborough River Reservoir.

WATER-QUALITY DATA, PERIOD SEPTEMBER 2002

Date	Time	DEPTH BOTTOM AT SAMPLE LOC- ATION, (FEET (81903)	LIGHT INCID. 400- 700NM SAMPLING INTENS. (U-EINS /SQM/S) (00200)	SAM- PLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)
02304200 HILLSBOROUGH RIVER AT HARNEY FL (LAT 28 00 54N LONG 082 22 30W)										
SEP 2002										
12...	0853	8.10	--	1.00	510	1.8	6.7	202	25.9	460
12...	0854	--	--	2.00	510	1.7	6.7	201	25.9	460
12...	0855	--	--	3.00	510	1.7	6.7	200	25.9	460
12...	0856	--	--	4.00	510	1.6	6.7	200	25.9	460
12...	0857	--	--	5.00	510	1.6	6.7	201	25.9	460
12...	0858	--	--	6.00	510	1.6	6.7	201	25.9	460
12...	0859	--	--	7.00	510	1.6	6.7	201	25.9	460
12...	0900	--	--	7.60	510	1.6	6.8	201	25.9	460
12...	0901	3.30	--	1.00	510	1.6	6.8	201	25.9	255
12...	0902	--	--	2.00	510	1.6	6.8	201	25.9	255
12...	0903	--	--	2.80	510	1.6	6.8	201	25.9	255
12...	0906	12.3	--	1.00	510	1.6	6.8	200	25.9	50.0
12...	0907	--	--	2.00	510	1.6	6.8	201	25.9	50.0
12...	0908	--	--	3.00	510	1.6	6.8	196	25.9	50.0
12...	0909	--	--	4.00	510	1.6	6.8	204	25.9	50.0
12...	0910	--	--	5.00	510	1.6	6.8	202	25.9	50.0
12...	0911	--	--	6.00	510	1.6	6.8	203	25.9	50.0
12...	0912	--	--	7.00	510	1.6	6.8	195	25.9	50.0
12...	0913	--	--	8.00	510	1.6	6.8	201	25.9	50.0
12...	0914	--	--	9.00	510	1.6	6.8	202	25.9	50.0
12...	0915	--	--	10.0	510	1.6	6.8	201	25.9	50.0
12...	0916	--	--	11.0	510	1.6	6.8	201	25.9	50.0
12...	0917	--	--	11.8	510	1.5	6.8	201	25.9	50.0
12...	1320	--	--	1.00	--	--	--	--	--	--
12...	1400	--	--	9.00	--	--	--	--	--	--
12...	1532	10.0	--	1.00	510	2.2	6.9	219	25.9	50.0
12...	1533	--	--	2.00	510	2.2	6.9	212	25.9	50.0
12...	1534	--	--	3.00	510	2.1	6.9	224	26.0	50.0
12...	1535	--	--	4.00	510	2.1	6.9	163	25.9	50.0
12...	1536	--	--	5.00	510	2.1	6.9	191	25.9	50.0
12...	1537	--	--	6.00	510	2.0	6.9	186	25.9	50.0
12...	1538	--	--	7.00	510	1.9	6.9	185	25.9	50.0
12...	1539	--	--	8.00	510	1.9	6.9	185	25.9	50.0
12...	1540	--	--	9.00	510	1.9	6.9	190	25.9	50.0
12...	1541	--	--	9.50	510	.2	6.8	216	25.9	50.0
12...	1543	4.50	--	1.00	510	1.8	6.9	199	25.9	255
12...	1544	--	--	2.00	510	1.8	6.9	199	25.9	255
12...	1545	--	--	3.00	510	1.8	6.9	199	25.9	255
12...	1546	--	--	4.00	510	1.8	6.9	199	25.9	255
12...	1549	11.0	--	1.00	510	1.7	6.9	206	25.9	460
12...	1550	--	--	2.00	510	1.7	6.9	208	25.9	460
12...	1551	--	--	3.00	510	1.7	6.9	167	25.9	460
12...	1552	--	--	4.00	510	1.7	6.8	219	25.9	460
12...	1553	--	--	5.00	510	1.7	6.8	194	25.9	460
12...	1554	--	--	6.00	510	1.7	6.8	225	25.9	460
12...	1555	--	--	7.00	510	1.7	6.8	201	25.9	460
12...	1556	--	--	8.00	510	1.7	6.8	196	25.9	460
12...	1557	--	--	9.00	510	1.7	6.9	199	25.9	460
12...	1558	--	--	10.0	510	1.7	6.9	180	25.9	460
12...	1559	--	--	10.5	510	1.7	6.9	190	25.9	460
12...	1727	6.30	306	1.00	510	1.9	6.9	199	25.8	50.0
12...	1728	--	--	2.00	510	1.8	6.9	199	25.8	50.0
12...	1729	--	--	3.00	510	1.8	6.9	200	25.9	50.0
12...	1730	--	--	4.00	510	1.7	6.8	199	25.8	50.0
12...	1731	--	--	5.00	510	1.7	6.8	200	25.9	50.0
12...	1732	--	--	5.80	510	1.7	6.8	200	25.9	50.0
12...	1738	8.50	299	1.00	510	1.9	6.9	199	25.8	255
12...	1739	--	--	2.00	510	1.8	6.9	199	25.8	255
12...	1740	--	--	3.00	510	1.7	6.9	199	25.8	255
12...	1741	--	--	4.00	510	1.7	6.9	200	25.8	255
12...	1742	--	--	5.00	510	1.7	6.9	199	25.8	255
12...	1743	--	--	6.00	510	1.7	6.9	201	25.8	255
12...	1744	--	--	7.00	510	1.7	6.8	199	25.8	255
12...	1745	--	--	8.00	510	1.7	6.8	198	25.8	255
12...	1751	9.50	258	1.00	510	1.9	6.9	199	25.9	460
12...	1752	--	--	2.00	510	1.9	6.9	199	25.9	460
12...	1753	--	--	3.00	510	1.8	6.9	199	25.9	460
12...	1754	--	--	4.00	510	1.7	6.9	199	25.8	460
12...	1755	--	--	5.00	510	1.7	6.9	199	25.9	460
12...	1756	--	--	6.00	510	1.7	6.9	199	25.9	460
12...	1757	--	--	7.00	510	1.7	6.9	199	25.9	460
12...	1758	--	--	8.00	510	1.7	6.9	199	25.9	460
12...	1759	--	--	9.00	510	1.5	6.9	201	25.9	460

MISCELLANEOUS SURFACE WATER RECORDS
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WATER-QUALITY DATA, PERIOD SEPTEMBER 2002--Continued

Date	Time	DEPTH BOTTOM AT SAMPLE LOC- TION, (FEET) (81903)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	SAM- PLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)
280034082245900 HILLSBOROUGH R. SITE 4 DNSTR 40TH ST NR TAMPA FL (LAT 28 00 34N LONG 082 24 58W)										
SEP 2002										
09...	0948	21.3	--	1.00	430	1.7	7.0	207	27.4	70.0
09...	0949	--	--	2.00	430	1.7	7.0	208	27.4	70.0
09...	0950	--	--	3.00	430	1.7	7.0	206	27.4	70.0
09...	0951	--	--	4.00	430	1.7	7.0	207	27.4	70.0
09...	0952	--	--	5.00	430	1.8	7.0	207	27.4	70.0
09...	0953	--	--	6.00	430	1.7	7.0	208	27.4	70.0
09...	0954	--	--	7.00	430	1.7	7.0	208	27.3	70.0
09...	0955	--	--	8.00	430	1.7	7.0	205	27.3	70.0
09...	0956	--	--	9.00	430	1.7	7.0	208	27.2	70.0
09...	0957	--	--	10.0	430	1.7	7.0	203	27.2	70.0
09...	0958	--	--	11.0	430	1.7	7.0	211	27.2	70.0
09...	0959	--	--	12.0	430	1.7	7.0	205	27.2	70.0
09...	1000	--	--	13.0	430	1.7	7.0	204	27.2	70.0
09...	1001	--	--	14.0	430	1.7	7.0	205	27.2	70.0
09...	1002	--	--	15.0	430	1.6	7.0	212	27.2	70.0
09...	1003	--	--	16.0	430	1.6	7.0	205	27.2	70.0
09...	1004	--	--	17.0	430	1.6	7.0	208	27.2	70.0
09...	1005	--	--	18.0	430	1.6	7.0	208	27.2	70.0
09...	1006	--	--	19.0	430	1.6	7.0	207	27.2	70.0
09...	1007	--	--	20.0	430	1.6	7.0	207	27.2	70.0
09...	1008	--	--	20.8	430	1.6	6.9	212	27.2	70.0
09...	1010	7.50	--	1.00	430	1.8	7.0	205	27.5	215
09...	1011	--	--	2.00	430	1.7	7.0	206	27.5	215
09...	1012	--	--	3.00	430	1.6	7.0	207	27.3	215
09...	1013	--	--	4.00	430	1.6	7.0	207	27.2	215
09...	1014	--	--	5.00	430	1.5	7.0	207	27.2	215
09...	1015	--	--	6.00	430	1.5	7.0	205	27.3	215
09...	1016	--	--	7.00	430	1.5	7.0	205	27.3	215
09...	1018	7.40	--	1.00	430	1.7	7.0	206	27.6	360
09...	1019	--	--	2.00	430	1.6	7.0	208	27.4	360
09...	1020	--	--	3.00	430	1.5	7.0	208	27.4	360
09...	1021	--	--	4.00	430	1.5	7.0	205	27.2	360
09...	1022	--	--	5.00	430	1.5	7.0	204	27.2	360
09...	1023	--	--	6.00	430	1.5	7.0	206	27.2	360
09...	1024	--	--	6.90	430	1.4	7.0	204	27.2	360
10...	0831	22.1	--	1.00	430	1.7	6.8	205	27.6	70.0
10...	0832	--	--	2.00	430	1.8	6.8	204	27.6	70.0
10...	0833	--	--	3.00	430	1.8	6.8	205	27.6	70.0
10...	0834	--	--	4.00	430	1.7	6.8	207	27.6	70.0
10...	0835	--	--	5.00	430	1.7	6.8	207	27.6	70.0
10...	0836	--	--	6.00	430	1.7	6.8	202	27.6	70.0
10...	0837	--	--	7.00	430	1.7	6.8	203	27.6	70.0
10...	0838	--	--	8.00	430	1.7	6.8	203	27.6	70.0
10...	0839	--	--	9.00	430	1.6	6.8	204	27.5	70.0
10...	0840	--	--	10.0	430	1.6	6.8	205	27.5	70.0
10...	0841	--	--	11.0	430	1.6	6.8	205	27.5	70.0
10...	0842	--	--	12.0	430	1.6	6.8	205	27.5	70.0
10...	0843	--	--	13.0	430	1.5	6.8	205	27.5	70.0
10...	0844	--	--	14.0	430	1.5	6.8	206	27.5	70.0
10...	0845	--	--	15.0	430	1.3	6.7	206	27.4	70.0
10...	0846	--	--	16.0	430	1.1	6.7	207	27.3	70.0
10...	0847	--	--	17.0	430	1.1	6.7	207	27.3	70.0
10...	0848	--	--	18.0	430	1.1	6.7	207	27.2	70.0
10...	0849	--	--	19.0	430	1.1	6.7	207	27.2	70.0
10...	0850	--	--	20.0	430	1.0	6.7	207	27.2	70.0
10...	0851	--	--	21.0	430	1.0	6.7	207	27.2	70.0
10...	0852	--	--	21.6	430	.9	6.7	208	27.2	70.0
10...	0853	7.50	--	1.00	430	1.7	6.9	200	27.7	215
10...	0854	--	--	2.00	430	1.7	6.8	201	27.6	215
10...	0855	--	--	3.00	430	1.7	6.8	210	27.6	215
10...	0856	--	--	4.00	430	1.6	6.8	199	27.6	215
10...	0857	--	--	5.00	430	1.6	6.8	201	27.6	215
10...	0858	--	--	6.00	430	1.5	6.8	208	27.6	215
10...	0859	--	--	7.00	430	1.5	6.8	204	27.6	215
10...	0900	6.50	--	1.00	430	1.6	6.9	205	27.6	360
10...	0901	--	--	2.00	430	1.6	6.8	204	27.6	360
10...	0902	--	--	3.00	430	1.6	6.8	204	27.6	360
10...	0903	--	--	4.00	430	1.5	6.8	204	27.6	360
10...	0904	--	--	5.00	430	1.5	6.8	204	27.6	360
10...	0905	--	--	6.00	430	1.5	6.8	204	27.6	360
10...	0927	22.0	2110	1.00	430	1.8	6.9	204	27.9	70.0
10...	0928	--	--	2.00	430	1.7	6.9	206	27.7	70.0
10...	0929	--	--	3.00	430	1.8	6.9	203	27.6	70.0
10...	0930	--	--	4.00	430	1.7	6.9	203	27.6	70.0
10...	0931	--	--	5.00	430	1.7	6.9	203	27.6	70.0
10...	0932	--	--	6.00	430	1.7	6.9	204	27.6	70.0
10...	0933	--	--	7.00	430	1.6	6.9	204	27.6	70.0
10...	0934	--	--	8.00	430	1.7	6.9	204	27.6	70.0

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

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WATER-QUALITY DATA, PERIOD SEPTEMBER 2002--Continued

Date	Time	DEPTH BOTTOM AT SAMPLE LOC- TION, (FEET) (81903)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	SAM- PLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- TION, CROSS SECTION (FT FM L BANK) (00009)
280034082245900 HILLSBOROUGH R. SITE 4 DNSTR 40TH ST NR TAMPA FL (LAT 28 00 34N LONG 082 24 58W)										
SEP 2002										
10...	0935	--	--	9.00	430	1.6	6.9	204	27.6	70.0
10...	0936	--	--	10.0	430	1.6	6.9	204	27.6	70.0
10...	0937	--	--	11.0	430	1.6	6.8	204	27.6	70.0
10...	0938	--	--	12.0	430	1.6	6.8	204	27.6	70.0
10...	0939	--	--	13.0	430	1.6	6.8	204	27.5	70.0
10...	0940	--	--	14.0	430	1.6	6.8	204	27.5	70.0
10...	0941	--	--	15.0	430	1.5	6.8	204	27.5	70.0
10...	0942	--	--	16.0	430	1.6	6.8	204	27.5	70.0
10...	0943	--	--	17.0	430	1.5	6.8	205	27.5	70.0
10...	0944	--	--	18.0	430	1.5	6.8	203	27.5	70.0
10...	0945	--	--	19.0	430	1.4	6.8	198	27.5	70.0
10...	0946	--	--	20.0	430	1.2	6.8	199	27.4	70.0
10...	0947	--	--	21.0	430	1.0	6.8	204	27.3	70.0
10...	0948	--	--	21.5	430	.2	6.8	207	27.3	70.0
10...	1002	6.00	2200	1.00	430	1.7	6.9	203	27.9	215
10...	1003	--	--	2.00	430	1.7	6.9	203	27.9	215
10...	1004	--	--	3.00	430	1.6	6.9	203	27.8	215
10...	1005	--	--	4.00	430	1.6	6.9	203	27.8	215
10...	1006	--	--	5.00	430	1.5	6.9	203	27.7	215
10...	1007	--	--	5.50	430	1.4	6.9	203	27.6	215
10...	1012	6.40	2300	1.00	430	1.8	6.9	203	28.3	360
10...	1013	--	--	2.00	430	1.6	6.9	203	27.8	360
10...	1014	--	--	3.00	430	1.6	6.9	206	27.8	360
10...	1015	--	--	4.00	430	1.5	6.9	205	27.6	360
10...	1016	--	--	5.00	430	1.4	6.9	206	27.6	360
10...	1017	--	--	5.90	430	1.4	6.9	201	27.6	360
10...	1115	--	--	--	--	--	--	--	--	--
10...	1130	--	--	1.00	--	--	--	--	--	--
10...	1230	--	--	5.00	--	--	--	--	--	--
10...	1542	22.9	--	1.00	430	1.5	6.9	201	28.6	70.0
10...	1543	--	--	2.00	430	1.4	6.9	203	27.9	70.0
10...	1544	--	--	3.00	430	1.4	6.9	203	27.8	70.0
10...	1545	--	--	4.00	430	1.4	6.9	204	27.8	70.0
10...	1546	--	--	5.00	430	1.4	6.9	202	27.8	70.0
10...	1547	--	--	6.00	430	1.4	6.9	203	27.8	70.0
10...	1548	--	--	7.00	430	1.4	6.9	203	27.7	70.0
10...	1549	--	--	8.00	430	1.3	6.9	202	27.6	70.0
10...	1550	--	--	9.00	430	1.3	6.8	205	27.6	70.0
10...	1551	--	--	10.0	430	1.3	6.8	203	27.6	70.0
10...	1552	--	--	11.0	430	1.3	6.8	207	27.6	70.0
10...	1553	--	--	12.0	430	1.3	6.8	203	27.6	70.0
10...	1554	--	--	13.0	430	1.3	6.8	206	27.6	70.0
10...	1555	--	--	14.0	430	1.2	6.8	207	27.6	70.0
10...	1556	--	--	15.0	430	1.2	6.8	206	27.5	70.0
10...	1557	--	--	16.0	430	1.2	6.8	205	27.6	70.0
10...	1558	--	--	17.0	430	1.2	6.8	205	27.5	70.0
10...	1559	--	--	18.0	430	1.2	6.8	204	27.5	70.0
10...	1600	--	--	19.0	430	1.1	6.8	205	27.5	70.0
10...	1601	--	--	20.0	430	1.1	6.8	206	27.4	70.0
10...	1602	--	--	21.0	430	1.1	6.8	206	27.4	70.0
10...	1603	--	--	22.0	430	1.1	6.8	206	27.4	70.0
10...	1604	--	--	22.4	430	1.0	6.8	206	27.4	70.0
10...	1605	6.00	--	1.00	430	1.5	6.9	204	28.6	215
10...	1606	--	--	2.00	430	1.5	6.9	203	28.6	215
10...	1607	--	--	3.00	430	1.4	6.9	203	28.2	215
10...	1608	--	--	4.00	430	1.3	6.9	203	28.0	215
10...	1609	--	--	5.00	430	1.2	6.8	203	27.7	215
10...	1610	--	--	5.50	430	1.2	6.8	204	27.5	215
10...	1611	6.90	--	1.00	430	1.7	7.0	203	31.1	360
10...	1612	--	--	2.00	430	1.4	6.9	204	29.2	360
10...	1613	--	--	3.00	430	1.3	6.9	205	28.4	360
10...	1614	--	--	4.00	430	1.2	6.9	205	27.8	360
10...	1615	--	--	5.00	430	1.1	6.8	203	27.6	360
10...	1616	--	--	6.00	430	1.1	6.8	204	27.6	360
10...	1617	--	--	6.40	430	1.1	6.8	205	27.6	360

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

WATER-QUALITY DATA, PERIOD SEPTEMBER 2002--Continued

Date	Time	DEPTH BOTTOM AT SAMPLE LOC- ATION, (FEET) (81903)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	SAM- PLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)
280128082234600 HILLSBOROUGH R SITE 3 DNSTR 56TH ST NR TAMPA FL (LAT 28 01 28N LONG 082 23 46W)										
SEP 2002										
11...	0850	11.5	--	1.00	490	1.5	6.6	205	27.4	70.0
11...	0851	--	--	2.00	490	1.5	6.7	205	27.4	70.0
11...	0852	--	--	3.00	490	1.5	6.7	207	27.4	70.0
11...	0853	--	--	4.00	490	1.5	6.7	204	27.4	70.0
11...	0854	--	--	5.00	490	1.5	6.7	206	27.4	70.0
11...	0855	--	--	6.00	490	1.5	6.8	202	27.4	70.0
11...	0856	--	--	7.00	490	1.5	6.8	208	27.4	70.0
11...	0857	--	--	8.00	490	1.5	6.8	200	27.4	70.0
11...	0858	--	--	9.00	490	1.5	6.8	205	27.4	70.0
11...	0859	--	--	10.0	490	1.5	6.8	201	27.4	70.0
11...	0900	--	--	11.0	490	.1	6.7	207	27.4	70.0
11...	1026	11.5	498	1.00	490	2.1	6.9	204	27.2	70.0
11...	1027	--	--	2.00	490	2.1	6.9	200	27.2	70.0
11...	1028	--	--	3.00	490	2.0	6.9	200	27.2	70.0
11...	1029	--	--	4.00	490	1.9	6.9	207	27.2	70.0
11...	1030	--	--	5.00	490	1.9	6.9	206	27.2	70.0
11...	1031	--	--	6.00	490	1.8	6.9	202	27.2	70.0
11...	1032	--	--	7.00	490	1.8	6.9	200	27.2	70.0
11...	1033	--	--	8.00	490	1.8	6.9	207	27.2	70.0
11...	1034	--	--	9.00	490	1.7	6.9	206	27.2	70.0
11...	1035	--	--	10.0	490	1.7	6.9	200	27.2	70.0
11...	1036	--	--	11.0	490	.4	6.9	203	27.2	70.0
11...	1044	9.30	672	1.00	490	2.2	7.0	202	27.2	245
11...	1045	--	--	2.00	490	2.1	7.0	206	27.2	245
11...	1046	--	--	3.00	490	2.0	7.0	206	27.2	245
11...	1047	--	--	4.00	490	2.0	6.9	201	27.2	245
11...	1048	--	--	5.00	490	2.0	6.9	205	27.2	245
11...	1049	--	--	6.00	490	2.0	6.9	200	27.2	245
11...	1050	--	--	7.00	490	2.0	6.9	202	27.2	245
11...	1051	--	--	8.00	490	2.0	6.9	199	27.2	245
11...	1052	--	--	8.80	490	2.0	6.9	200	27.2	245
11...	1053	11.4	755	1.00	490	2.2	7.0	200	27.2	420
11...	1054	--	--	2.00	490	2.2	7.0	192	27.2	420
11...	1055	--	--	3.00	490	2.1	7.0	196	27.2	420
11...	1056	--	--	4.00	490	2.1	7.0	193	27.2	420
11...	1057	--	--	5.00	490	2.1	7.0	199	27.2	420
11...	1058	--	--	6.00	490	2.1	7.0	197	27.2	420
11...	1059	--	--	7.00	490	2.1	7.0	199	27.2	420
11...	1100	--	--	8.00	490	2.1	7.0	205	27.2	420
11...	1101	--	--	9.00	490	2.1	7.0	200	27.2	420
11...	1102	--	--	10.0	490	2.1	7.0	200	27.2	420
11...	1103	--	--	10.9	490	.8	6.9	203	27.2	420
11...	1140	--	--	1.00	--	--	--	--	--	--
11...	1200	--	--	1.00	--	--	--	--	--	--
11...	1220	--	--	7.00	--	--	--	--	--	--
11...	1730	9.10	--	1.00	490	2.3	7.0	203	27.2	70.0
11...	1731	--	--	2.00	490	2.3	7.0	198	27.2	70.0
11...	1732	--	--	3.00	490	2.3	7.0	203	27.2	70.0
11...	1733	--	--	4.00	490	2.3	7.0	198	27.2	70.0
11...	1734	--	--	5.00	490	2.2	7.0	199	27.2	70.0
11...	1735	--	--	6.00	490	2.2	7.0	198	27.2	70.0
11...	1736	--	--	7.00	490	2.1	6.9	199	27.2	70.0
11...	1737	--	--	8.00	490	2.1	6.9	202	27.2	70.0
11...	1738	--	--	8.60	490	2.0	6.9	200	27.2	70.0
11...	1739	6.50	--	1.00	490	2.3	7.0	201	27.3	245
11...	1740	--	--	2.00	490	2.3	7.0	200	27.3	245
11...	1741	--	--	3.00	490	2.2	7.0	203	27.2	245
11...	1742	--	--	4.00	490	2.2	7.0	200	27.3	245
11...	1743	--	--	5.00	490	2.2	7.0	201	27.3	245
11...	1744	--	--	6.00	490	2.1	7.0	200	27.2	245
11...	1745	9.50	--	1.00	490	2.5	7.0	198	27.4	420
11...	1746	--	--	2.00	490	2.4	7.0	197	27.4	420
11...	1747	--	--	3.00	490	2.4	7.0	197	27.4	420
11...	1748	--	--	4.00	490	2.4	7.0	197	27.4	420
11...	1749	--	--	5.00	490	2.3	7.0	201	27.4	420
11...	1750	--	--	6.00	490	2.4	7.0	201	27.4	420
11...	1751	--	--	7.00	490	2.3	7.0	204	27.4	420
11...	1752	--	--	8.00	490	2.2	7.0	196	27.4	420
11...	1753	--	--	9.00	490	2.2	7.0	197	27.3	420

MISCELLANEOUS SURFACE WATER RECORDS
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WATER-QUALITY DATA, PERIOD SEPTEMBER 2002--Continued

Date	Time	DEPTH BOTTOM AT SAMPLE LOC- TION, (FEET) (81903)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	SAM- PLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)
280136082253000 HILLSBOROUGH R SITE 5 ABV DAM NR TAMPA FL (LAT 28 01 36N LONG 082 25 30W)										
SEP 2002										
09...	0909	6.40	--	1.00	710	2.4	7.0	208	27.8	150
09...	0910	--	--	2.00	710	2.4	7.0	209	27.8	150
09...	0911	--	--	--	--	--	--	--	--	--
09...	0912	--	--	3.00	710	2.3	7.0	208	27.8	150
09...	0913	--	--	4.00	710	2.1	7.0	207	27.7	150
09...	0914	--	--	5.00	710	2.0	7.0	207	27.7	150
09...	0915	--	--	5.90	710	1.6	7.0	208	27.6	150
09...	0925	12.2	--	1.00	710	2.6	7.0	206	28.0	355
09...	0926	--	--	2.00	710	2.6	7.0	206	28.0	355
09...	0927	--	--	3.00	710	2.5	7.0	207	27.9	355
09...	0928	--	--	4.00	710	2.5	7.0	205	27.9	355
09...	0929	--	--	5.00	710	2.4	7.0	205	27.8	355
09...	0930	--	--	6.00	710	2.4	7.0	206	27.8	355
09...	0931	--	--	7.00	710	2.1	7.0	207	27.7	355
09...	0932	--	--	8.00	710	2.1	7.0	207	27.7	355
09...	0933	--	--	9.00	710	1.5	7.0	206	27.5	355
09...	0934	--	--	10.0	710	1.5	7.0	203	27.5	355
09...	0935	--	--	11.0	710	1.4	7.0	206	27.4	355
09...	0936	--	--	11.7	710	1.2	7.0	206	27.4	355
09...	0938	21.3	--	1.00	710	2.5	7.0	207	28.0	560
09...	0939	--	--	2.00	710	2.4	7.0	209	28.0	560
09...	0940	--	--	3.00	710	2.4	7.0	206	28.0	560
09...	0941	--	--	4.00	710	2.3	7.0	207	27.9	560
09...	0942	--	--	5.00	710	2.1	7.0	207	27.9	560
09...	0943	--	--	6.00	710	1.6	7.0	207	27.7	560
09...	0944	--	--	7.00	710	1.9	7.0	207	27.8	560
09...	0945	--	--	8.00	710	1.6	7.0	206	27.8	560
09...	0946	--	--	9.00	710	1.5	7.0	204	27.6	560
09...	0947	--	--	10.0	710	1.5	7.0	209	27.5	560
09...	0948	--	--	11.0	710	1.5	7.0	208	27.4	560
09...	0949	--	--	12.0	710	1.4	7.0	207	27.4	560
09...	0950	--	--	13.0	710	1.4	7.0	207	27.4	560
09...	0951	--	--	14.0	710	1.4	7.0	210	27.3	560
09...	0952	--	--	15.0	710	1.4	7.0	211	27.3	560
09...	0953	--	--	16.0	710	1.3	7.0	212	27.3	560
09...	0954	--	--	17.0	710	1.1	6.9	221	27.2	560
09...	0955	--	--	18.0	710	.8	6.9	255	27.1	560
09...	0956	--	--	19.0	710	.7	6.9	290	27.0	560
09...	0957	--	--	20.0	710	.4	6.9	340	26.9	560
09...	0958	--	--	20.8	710	.1	6.8	377	26.8	560
09...	1126	12.2	3080	1.00	710	2.6	7.1	208	28.3	150
09...	1127	--	--	2.00	710	2.4	7.1	207	28.1	150
09...	1128	--	--	3.00	710	2.2	7.1	207	27.9	150
09...	1129	--	--	4.00	710	2.1	7.0	208	27.8	150
09...	1130	--	--	5.00	710	1.9	7.0	206	27.7	150
09...	1131	--	--	6.00	710	1.6	7.0	206	27.5	150
09...	1132	--	--	7.00	710	1.5	7.0	206	27.5	150
09...	1133	--	--	8.00	710	1.5	7.0	206	27.5	150
09...	1134	--	--	9.00	710	1.4	7.0	206	27.5	150
09...	1135	--	--	10.0	710	1.3	7.0	207	27.4	150
09...	1136	--	--	11.0	710	1.3	7.0	207	27.4	150
09...	1137	--	--	11.7	710	1.3	7.0	207	27.4	150
09...	1140	25.2	3230	1.00	710	2.5	7.1	205	28.4	560
09...	1141	--	--	2.00	710	2.4	7.0	207	28.3	560
09...	1142	--	--	3.00	710	2.4	7.0	210	28.3	560
09...	1143	--	--	4.00	710	2.4	7.0	209	28.3	560
09...	1144	--	--	5.00	710	2.4	7.0	209	28.2	560
09...	1145	--	--	6.00	710	2.3	7.0	207	28.2	560
09...	1146	--	--	7.00	710	2.1	7.0	209	27.9	560
09...	1147	--	--	8.00	710	1.7	7.0	208	27.7	560
09...	1148	--	--	9.00	710	1.5	7.0	208	27.6	560
09...	1149	--	--	10.0	710	1.4	7.0	203	27.5	560
09...	1150	--	--	11.0	710	1.3	7.0	213	27.5	560
09...	1151	--	--	12.0	710	1.2	7.0	210	27.4	560
09...	1152	--	--	13.0	710	1.4	7.0	208	27.4	560
09...	1153	--	--	14.0	710	1.4	7.0	204	27.4	560
09...	1154	--	--	15.0	710	1.3	7.0	211	27.3	355
09...	1155	--	--	16.0	710	1.3	7.0	206	27.3	560
09...	1156	--	--	17.0	710	1.3	6.9	211	27.3	560
09...	1157	--	--	18.0	710	1.1	6.9	218	27.3	560
09...	1158	--	--	19.0	710	.7	6.9	314	26.9	560
09...	1159	--	--	20.0	710	.3	6.8	391	26.7	560
09...	1200	--	--	21.0	710	.1	6.8	437	26.5	560
09...	1201	--	--	22.0	710	.1	6.8	486	26.3	560
09...	1202	--	--	23.0	710	.1	6.8	525	26.1	560
09...	1203	--	--	24.0	710	.1	6.8	559	26.0	560
09...	1204	--	--	24.7	710	.1	6.8	589	26.0	560
09...	1205	10.0	3170	1.00	710	2.5	7.0	207	28.2	355

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

WATER-QUALITY DATA, PERIOD SEPTEMBER 2002--Continued

Date	Time	DEPTH BOTTOM AT SAMPLE LOC- TION, (FEET) (81903)	SAM- PLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)
280136082253000 HILLSBOROUGH R SITE 5 ABV DAM NR TAMPA FL (LAT 28 01 36N LONG 082 25 30W)									
SEP 2002									
09...	1206	--	2.00	710	2.4	7.0	205	28.4	355
09...	1207	--	3.00	710	2.4	7.0	207	28.3	355
09...	1208	--	4.00	710	2.4	7.0	209	28.2	355
09...	1209	--	5.00	710	2.3	7.0	210	28.0	355
09...	1210	--	6.00	710	2.2	7.0	210	27.8	355
09...	1211	--	7.00	710	2.0	7.0	208	27.7	355
09...	1212	--	8.00	710	1.7	7.0	204	27.7	355
09...	1213	--	9.00	710	1.4	7.0	204	27.5	355
09...	1214	--	9.50	710	1.4	7.0	208	27.5	355
09...	1310	--	1.00	--	--	--	--	--	--
09...	1350	--	8.00	--	--	--	--	--	--
09...	1740	13.3	1.00	710	3.0	6.9	206	30.4	150
09...	1741	--	2.00	710	2.7	6.9	208	29.9	150
09...	1742	--	3.00	710	2.2	6.8	206	28.6	150
09...	1743	--	4.00	710	2.1	6.8	206	28.4	150
09...	1744	--	5.00	710	2.0	6.8	207	28.4	150
09...	1745	--	6.00	710	1.6	6.8	205	27.7	150
09...	1746	--	7.00	710	1.5	6.8	209	27.6	150
09...	1747	--	8.00	710	1.5	6.8	205	27.6	150
09...	1748	--	9.00	710	1.5	6.8	205	27.6	150
09...	1749	--	10.0	710	1.5	6.8	206	27.6	150
09...	1750	--	11.0	710	1.5	6.8	206	27.6	150
09...	1751	--	12.0	710	1.5	6.8	205	27.6	150
09...	1752	--	12.8	710	1.5	6.8	207	27.6	150
09...	1755	9.30	1.00	710	2.5	6.9	206	29.8	355
09...	1756	--	2.00	710	2.5	6.9	207	29.5	355
09...	1757	--	3.00	710	2.1	6.9	207	28.5	355
09...	1758	--	4.00	710	2.0	6.8	207	28.1	355
09...	1759	--	5.00	710	1.8	6.8	207	28.0	355
09...	1800	--	6.00	710	1.6	6.8	207	27.8	355
09...	1801	--	7.00	710	1.6	6.8	206	27.6	355
09...	1802	--	8.00	710	1.5	6.8	207	27.6	355
09...	1803	--	8.80	710	1.5	6.8	207	27.5	355
09...	1805	22.2	1.00	710	3.1	7.0	207	31.0	560
09...	1806	--	2.00	710	2.9	7.0	207	30.3	560
09...	1807	--	3.00	710	2.8	6.9	207	30.1	560
09...	1808	--	4.00	710	1.9	6.8	206	27.9	560
09...	1809	--	5.00	710	1.8	6.8	208	27.8	560
09...	1810	--	6.00	710	1.8	6.8	206	27.7	560
09...	1811	--	7.00	710	1.7	6.8	206	27.6	560
09...	1812	--	8.00	710	1.6	6.8	208	27.6	560
09...	1813	--	9.00	710	1.6	6.8	208	27.6	560
09...	1814	--	10.0	710	1.6	6.8	209	27.6	560
09...	1815	--	11.0	710	1.5	6.8	205	27.5	560
09...	1816	--	12.0	710	1.6	6.8	203	27.5	560
09...	1817	--	13.0	710	1.6	6.8	211	27.5	560
09...	1818	--	14.0	710	1.5	6.8	206	27.5	560
09...	1819	--	15.0	710	1.5	6.8	208	27.5	560
09...	1820	--	16.0	710	1.3	6.8	212	27.4	560
09...	1821	--	17.0	710	1.2	6.8	208	27.4	560
09...	1822	--	18.0	710	1.2	6.8	210	27.4	560
09...	1823	--	19.0	710	.9	6.8	233	27.2	560
09...	1824	--	20.0	710	.2	6.7	410	26.6	560
09...	1825	--	21.7	710	.1	6.6	474	26.5	560
10...	0910	13.6	1.00	710	2.5	7.0	209	28.5	150
10...	0911	--	2.00	710	2.5	6.9	209	28.5	150
10...	0912	--	3.00	710	2.5	6.9	209	28.5	150
10...	0913	--	4.00	710	2.5	6.9	209	28.5	150
10...	0914	--	5.00	710	2.4	6.9	208	28.4	150
10...	0915	--	6.00	710	2.3	6.9	209	28.3	150
10...	0916	--	7.00	710	2.2	6.9	210	28.3	150
10...	0917	--	8.00	710	1.8	6.9	209	28.1	150
10...	0918	--	9.00	710	1.5	6.9	210	27.8	150
10...	0919	--	10.0	710	1.2	6.9	211	27.7	150
10...	0920	--	11.0	710	1.2	6.8	211	27.6	150
10...	0921	--	12.0	710	1.1	6.8	209	27.6	150
10...	0922	--	13.1	710	.8	6.8	218	27.5	150
10...	1623	12.9	1.00	710	3.4	7.1	211	31.9	150
10...	1624	--	2.00	710	3.0	7.0	210	31.6	150
10...	1625	--	3.00	710	2.2	7.0	209	30.7	150
10...	1626	--	4.00	710	1.9	7.0	207	29.5	150
10...	1627	--	5.00	710	1.7	6.9	209	28.4	150
10...	1628	--	6.00	710	1.7	6.9	210	28.2	150
10...	1629	--	7.00	710	1.7	6.9	210	28.2	150
10...	1630	--	8.00	710	1.6	6.9	209	28.1	150
10...	1631	--	9.00	710	1.6	6.9	211	28.1	150
10...	1632	--	10.0	710	1.6	6.9	209	27.9	150
10...	1633	--	11.0	710	1.5	6.9	208	27.8	150

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

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WATER-QUALITY DATA, PERIOD SEPTEMBER 2002--Continued

Date	Time	DEPTH BOTTOM AT SAMPLE LOC- TION, (FEET) (81903)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	SAM- PLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)
280136082253000 HILLSBOROUGH R SITE 5 ABV DAM NR TAMPA FL (LAT 28 01 36N LONG 082 25 30W)										
SEP 2002										
10...	1634	--	--	12.0	710	1.4	6.8	209	27.8	150
10...	1635	--	--	12.4	710	1.4	6.8	210	27.8	150
280212082225200 HILLSBOROUGH RIVER SITE 1 AT TEMPLE TERRACE FL (LAT 28 02 11N LONG 082 22 52W)										
SEP 2002										
12...	--	--	--	--	--	--	--	--	--	--
12...	0942	11.9	940	1.00	150	1.3	6.9	201	25.6	30.0
12...	0943	--	--	2.00	150	1.3	6.9	199	25.6	30.0
12...	0944	--	--	3.00	150	1.3	6.9	200	25.6	30.0
12...	0945	--	--	4.00	150	1.3	6.9	196	25.6	30.0
12...	0946	--	--	5.00	150	1.3	6.9	198	25.6	30.0
12...	0947	--	--	6.00	150	1.3	6.9	200	25.6	30.0
12...	0948	--	--	7.00	150	1.3	6.9	197	25.6	30.0
12...	0949	--	--	8.00	150	1.3	6.9	202	25.6	30.0
12...	0950	--	--	9.00	150	1.3	6.9	203	25.6	30.0
12...	0951	--	--	10.0	150	1.3	6.9	201	25.6	30.0
12...	0952	--	--	11.0	150	1.3	6.8	202	25.6	30.0
12...	0953	--	--	11.4	150	1.3	6.8	205	25.6	30.0
12...	0955	13.2	1560	1.00	150	1.3	6.8	200	25.7	75.0
12...	0956	--	--	2.00	150	1.3	6.8	201	25.6	75.0
12...	0957	--	--	3.00	150	1.3	6.8	199	25.6	75.0
12...	0958	--	--	4.00	150	1.3	6.8	199	25.6	75.0
12...	0959	--	--	5.00	150	1.3	6.8	202	25.6	75.0
12...	1000	--	--	6.00	150	1.3	6.8	194	25.6	75.0
12...	1001	--	--	7.00	150	1.3	6.8	206	25.6	75.0
12...	1002	--	--	8.00	150	1.3	6.8	196	25.6	75.0
12...	1003	--	--	9.00	150	1.3	6.8	200	25.6	75.0
12...	1004	--	--	10.0	150	1.3	6.8	201	25.6	75.0
12...	1005	--	--	11.0	150	1.3	6.8	201	25.6	75.0
12...	1006	--	--	12.0	150	1.3	6.8	201	25.6	75.0
12...	1007	--	--	12.7	150	1.3	6.8	201	25.6	75.0
12...	1010	11.2	927	1.00	150	1.3	6.8	200	25.6	120
12...	1011	--	--	2.00	150	1.3	6.8	200	25.6	120
12...	1012	--	--	3.00	150	1.3	6.8	200	25.6	120
12...	1013	--	--	4.00	150	1.3	6.8	200	25.6	120
12...	1014	--	--	5.00	150	1.3	6.8	201	25.6	120
12...	1015	--	--	6.00	150	1.3	6.8	201	25.6	120
12...	1016	--	--	7.00	150	1.3	6.8	201	25.6	120
12...	1017	--	--	8.00	150	1.3	6.8	200	25.6	120
12...	1018	--	--	9.00	150	1.3	6.8	201	25.6	120
12...	1019	--	--	10.0	150	1.3	6.8	203	25.6	120
12...	1020	--	--	10.7	150	1.3	6.8	202	25.6	120
12...	1055	--	--	1.00	--	--	--	--	--	--
12...	1130	--	--	8.00	--	--	--	--	--	--
12...	1203	12.9	--	1.00	150	1.4	6.8	199	25.9	75.0
12...	1204	--	--	2.00	150	1.4	6.8	200	25.8	75.0
12...	1205	--	--	3.00	150	1.4	6.8	200	25.8	75.0
12...	1206	--	--	4.00	150	1.4	6.8	200	25.8	75.0
12...	1207	--	--	5.00	150	1.3	6.8	199	25.8	75.0
12...	1208	--	--	6.00	150	1.3	6.8	199	25.8	75.0
12...	1209	--	--	7.00	150	1.3	6.8	198	25.8	75.0
12...	1210	--	--	8.00	150	1.3	6.8	197	25.8	75.0
12...	1211	--	--	9.00	150	1.3	6.8	198	25.8	75.0
12...	1212	--	--	10.0	150	1.3	6.8	199	25.8	75.0
12...	1213	--	--	11.0	150	1.3	6.8	201	25.8	75.0
12...	1214	--	--	12.0	150	1.3	6.8	196	25.8	75.0
12...	1215	--	--	12.4	150	1.3	6.8	203	25.8	75.0
12...	1216	12.8	--	1.00	150	1.3	6.8	200	25.8	120
12...	1217	--	--	2.00	150	1.3	6.8	200	25.9	120
12...	1218	--	--	3.00	150	1.3	6.8	200	25.8	120
12...	1219	--	--	4.00	150	1.3	6.8	200	25.8	120
12...	1220	--	--	5.00	150	1.3	6.8	201	25.8	120
12...	1221	--	--	6.00	150	1.3	6.8	200	25.8	120
12...	1222	--	--	7.00	150	1.2	6.8	200	25.8	120
12...	1223	--	--	8.00	150	1.2	6.8	200	25.8	120
12...	1224	--	--	9.00	150	1.2	6.8	200	25.8	120
12...	1225	--	--	10.0	150	1.2	6.8	200	25.8	120
12...	1226	--	--	11.0	150	1.2	6.8	200	25.8	120
12...	1227	--	--	12.0	150	1.2	6.8	201	25.8	120
12...	1228	--	--	12.3	150	1.2	6.8	201	25.8	120
12...	1229	12.1	--	1.00	150	1.3	6.8	200	25.8	30.0
12...	1230	--	--	2.00	150	1.3	6.8	199	25.8	30.0
12...	1231	--	--	3.00	150	1.3	6.8	201	25.8	30.0
12...	1232	--	--	4.00	150	1.3	6.8	199	25.8	30.0
12...	1233	--	--	5.00	150	1.3	6.8	199	25.8	30.0

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

WATER-QUALITY DATA, PERIOD SEPTEMBER 2002--Continued

Date	Time	DEPTH BOTTOM AT SAMPLE LOC- ATION, (FEET) (81903)	SAM- PLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)
280212082225200 HILLSBOROUGH RIVER SITE 1 AT TEMPLE TERRACE FL (LAT 28 02 11N LONG 082 22 52W)									
SEP 2002									
12...	1234	--	6.00	150	1.3	6.8	199	25.8	30.0
12...	1235	--	7.00	150	1.2	6.8	201	25.8	30.0
12...	1236	--	8.00	150	1.2	6.8	200	25.8	30.0
12...	1237	--	9.00	150	1.2	6.8	199	25.8	30.0
12...	1238	--	10.0	150	1.2	6.8	203	25.8	30.0
12...	1239	--	11.0	150	1.2	6.8	198	25.8	30.0
12...	1240	--	11.6	150	1.2	6.8	201	25.8	30.0
12...	1628	9.50	1.00	150	1.9	6.9	198	25.6	30.0
12...	1629	--	2.00	150	1.9	6.8	197	25.6	30.0
12...	1630	--	3.00	150	1.8	6.8	197	25.6	30.0
12...	1631	--	4.00	150	1.8	6.8	197	25.6	30.0
12...	1632	--	5.00	150	1.8	6.8	198	25.6	30.0
12...	1633	--	6.00	150	1.8	6.8	197	25.6	30.0
12...	1634	--	7.00	150	1.8	6.8	197	25.6	30.0
12...	1635	--	8.00	150	1.8	6.8	197	25.6	30.0
12...	1636	--	9.00	150	1.8	6.8	197	25.6	30.0
12...	1638	13.2	1.00	150	1.8	6.8	197	25.6	75.0
12...	1639	--	2.00	150	1.8	6.8	196	25.6	75.0
12...	1640	--	3.00	150	1.8	6.8	196	25.6	75.0
12...	1641	--	4.00	150	1.8	6.8	189	25.6	75.0
12...	1642	--	5.00	150	1.8	6.8	216	25.6	75.0
12...	1643	--	6.00	150	1.8	6.8	205	25.6	75.0
12...	1644	--	7.00	150	1.8	6.8	207	25.6	75.0
12...	1645	--	8.00	150	1.8	6.8	208	25.6	75.0
12...	1646	--	9.00	150	1.7	6.8	190	25.6	75.0
12...	1647	--	10.0	150	1.7	6.8	192	25.6	75.0
12...	1648	--	11.0	150	1.7	6.8	198	25.6	75.0
12...	1649	--	12.0	150	1.7	6.8	191	25.6	75.0
12...	1650	--	12.8	150	1.7	6.8	212	25.6	75.0
12...	1651	12.9	1.00	150	1.8	6.8	201	25.6	120
12...	1652	--	2.00	150	1.8	6.8	198	25.6	120
12...	1653	--	3.00	150	1.8	6.8	195	25.6	120
12...	1654	--	4.00	150	1.8	6.8	201	25.6	120
12...	1655	--	5.00	150	1.8	6.8	199	25.6	120
12...	1656	--	6.00	150	1.7	6.8	197	25.6	120
12...	1657	--	7.00	150	1.7	6.8	212	25.6	120
12...	1658	--	8.00	150	1.7	6.8	189	25.6	120
12...	1659	--	9.00	150	1.7	6.8	206	25.6	120
12...	1700	--	10.0	150	1.7	6.8	190	25.6	120
12...	1701	--	11.0	150	1.7	6.8	198	25.6	120
12...	1702	--	12.0	150	1.7	6.8	194	25.6	120

MISCELLANEOUS SURFACE WATER RECORDS
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WATER-QUALITY DATA, PERIOD SEPTEMBER 2002--Continued

Date	Time	COLOR (PLAT- INUM- COBALT UNITS) (00080)	SAM- PLING DEPTH (FEET) (00003)	TUR- BID- ITY (NTU) (00076)	CALCIUM DIS- SOLVED (MG/L) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	SODIUM, DIS- SOLVED (MG/L) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) (00950)	SULFATE DIS- SOLVED (MG/L) (00945)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L) (70299)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	
02304200 HILLSBOROUGH RIVER AT HARNEY FL (LAT 28 00 54N LONG 082 22 30W)														
SEP 2002	1320	240	1.00	2.2	31.0	2.70	3.00	6.9	11.0	.2	4.30	2	173	
12...	1400	240	9.00	2.1	31.0	2.70	2.90	6.9	11.0	.2	4.30	3	184	
280034082245900 HILLSBOROUGH R. SITE 4 DNSTR 40TH ST NR TAMPA FL (LAT 28 00 34N LONG 082 24 58W)														
SEP 2002	1130	240	1.00	1.9	31.0	2.70	2.90	7.3	11.0	.2	4.50	3	159	
10...	1230	240	5.00	1.7	31.0	2.70	2.90	7.3	12.0	.3	4.70	<1	170	
280128082234600 HILLSBOROUGH R SITE 3 DNSTR 56TH ST NR TAMPA FL (LAT 28 01 28N LONG 082 23 46W)														
SEP 2002	1140	240	1.00	2.0	31.0	2.70	2.90	7.1	11.0	.3	4.20	3	172	
11...	1220	280	7.00	2.7	31.0	2.70	2.80	7.0	11.0	.3	4.10	4	168	
280136082253000 HILLSBOROUGH R SITE 5 ABV DAM NR TAMPA FL (LAT 28 01 36N LONG 082 25 30W)														
SEP 2002	1310	240	1.00	3.2	31.0	2.70	3.00	7.6	12.0	.3	5.60	5	170	
09...	1350	240	8.00	1.9	31.0	2.70	3.00	7.6	12.0	.3	5.70	5	171	
280212082225200 HILLSBOROUGH RIVER SITE 1 AT TEMPLE TERRACE FL (LAT 28 02 11N LONG 082 22 52W)														
SEP 2002	1055	280	1.00	2.6	31.0	2.70	2.90	6.9	11.0	.2	4.20	3	174	
12...	1130	280	8.00	2.2	31.0	2.70	2.90	6.8	11.0	.3	4.20	3	175	
Date		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L) AS P) (00671)	PHOS- PHORUS TOTAL (MG/L) AS P) (00665)	CARBON ORGANIC TOTAL (MG/L) AS C) (00680)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	TOTAL COLI- FORM, M ENDO MF, WTR (COL/ 100 ML) (31501)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	COLI- FORM, FECAL, 0.7 UM-MF (COL./ 100 ML) (31625)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)
02304200 HILLSBOROUGH RIVER AT HARNEY FL (LAT 28 00 54N LONG 082 22 30W)														
SEP 2002	.02	1.4	.05	<.010	.38	.42	28.0	1.0	2200	41	230	<1	<.1	
12...	.02	1.3	.05	<.010	.38	.42	28.0	1.1	E910	34	230	E12	<.1	
280034082245900 HILLSBOROUGH R. SITE 4 DNSTR 40TH ST NR TAMPA FL (LAT 28 00 34N LONG 082 24 58W)														
SEP 2002	.05	1.6	.03	.010	.38	.42	25.0	1.2	--	26	11	E6	<.1	
10...	.06	1.5	.04	.010	.38	.43	25.0	1.2	339	E21	E24	63	<.1	
280128082234600 HILLSBOROUGH R SITE 3 DNSTR 56TH ST NR TAMPA FL (LAT 28 01 28N LONG 082 23 46W)														
SEP 2002	.05	1.5	.04	.010	.38	.42	27.0	1.3	2200	E19	98	34	<.1	
11...	.05	1.5	.04	.010	.39	.42	29.0	1.0	730	E25	E280	<1	<.1	
280136082253000 HILLSBOROUGH R SITE 5 ABV DAM NR TAMPA FL (LAT 28 01 36N LONG 082 25 30W)														
SEP 2002	.06	1.4	.05	.010	.37	.41	27.0	.8	370	E28	20	E7	3.9	
09...	.08	1.5	.05	.010	.38	.41	26.0	.6	400	E5	E10	E5	1.6	
280212082225200 HILLSBOROUGH RIVER SITE 1 AT TEMPLE TERRACE FL (LAT 28 02 11N LONG 082 22 52W)														
SEP 2002	.02	1.4	.05	<.010	.38	.41	27.0	1.0	2900	38	220	<1	<.1	
12...	.02	1.4	.04	<.010	.38	.42	28.0	1.0	918	51	220	<1	<.1	

MISCELLANEOUS SURFACE WATER RECORDS
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WATER-QUALITY DATA, PERIOD SEPTEMBER 2002--Continued

Date	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	
02304200	HILLSBOROUGH RIVER AT HARNEY FL	(LAT 28 00 54N LONG 082 22 30W)
SEP 2002		
12...	<2	
12...	<2	
280034082245900	HILLSBOROUGH R. SITE 4 DNSTR 40TH ST NR TAMPA FL	(LAT 28 00 34N LONG 082 24 58W)
SEP 2002		
10...	<2	
10...	<2	
280128082234600	HILLSBOROUGH R SITE 3 DNSTR 56TH ST NR TAMPA FL	(LAT 28 01 28N LONG 082 23 46W)
SEP 2002		
11...	<2	
11...	<2	
280136082253000	HILLSBOROUGH R SITE 5 ABV DAM NR TAMPA FL	(LAT 28 01 36N LONG 082 25 30W)
SEP 2002		
09...	<2	
09...	<2	
280212082225200	HILLSBOROUGH RIVER SITE 1 AT TEMPLE TERRACE FL	(LAT 28 02 11N LONG 082 22 52W)
SEP 2002		
12...	<2	
12...	<2	

Remark codes used in this report:

< -- Less than
E -- Estimated value

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

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WATER QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

The following data were collected as part of a study to characterize water quality in the surface and ground water, and to assess the interaction between the surface and ground water systems in the Upper Hillsborough river watershed.

Date	Time	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
02302010 HILLSBOROUGH R BL CRYSTAL SPR NEAR ZEPHYRHILLS FL (LAT 28 10 43N LONG 082 11 21W)													
NOV 2001 27...	1145	49.06	57	50	4.8	7.8	385	23.3	37.0	7.10	8.10	29.0	39.0
JAN 2002 22...	1120	49.05	56	<5	5.3	8.0	373	23.1	63.0	4.10	.50	5.7	11.0
MAR 19...	1330	49.09	60	<5	5.9	8.3	367	24.3	63.0	4.00	.50	5.7	11.0
MAY 15...	1215	48.76	46	<5	5.8	8.1	360	24.2	63.0	4.20	.40	5.6	11.0
JUL 10...	1100	49.52	82	100	5.9	7.8	326	24.6	54.0	4.00	1.00	5.9	11.0
02302260 ITCHEPAKESASSA CREEK AT S-582 NEAR KNIGHTS FL (LAT 28 04 49N LONG 082 04 24W)													
MAY 2002 08...	1330	--	--	60	6.3	8.0	353	25.8	36.0	6.60	6.10	21.0	38.0
SEP 03...	1130	--	--	400	5.1	7.4	200	28.9	22.0	4.20	4.90	9.0	15.0
280430082071800 EAST CANAL OF ITCHEPACKESASSA CREEK NR KNIGHTS FL (LAT 28 04 30N LONG 082 07 18W)													
MAY 2002 08...	1230	--	--	10	7.9	8.2	1730	27.8	85.0	11.0	55.0	230	240
SEP 03...	1030	--	--	80	5.5	7.4	677	28.0	47.0	6.10	18.0	71.0	80.0
280828082062900 BLACKWATER CREEK TRANSECT SITE NR KNIGHTS FL (LAT 28 08 28N LONG 082 06 29W)													
NOV 2001 28...	1100	84.37	--	5	5.0	7.9	413	20.1	65.0	8.10	.70	8.4	13.0
MAR 2002 26...	1245	84.36	--	10	6.0	8.1	405	22.0	64.0	7.90	.80	7.6	12.0
MAY 08...	1130	83.66	--	20	6.9	8.4	400	25.5	63.0	7.60	.80	7.8	12.0
SEP 10...	1145	--	--	480	4.9	7.3	184	25.6	24.0	4.60	2.00	8.4	16.0
280858082124800 BLACKWATER CR UPSTREAM OF MOUTH NR ZEPHYRHILLS FL (LAT 28 08 58N LONG 082 12 48W)													
MAY 2002 06...	1215	--	.05	20	6.5	8.2	694	25.6	74.0	8.00	12.0	49.0	57.0
SEP 11...	1330	--	--	240	6.7	7.3	301	26.0	34.0	4.90	5.40	18.0	24.0
281135082095500 HILLSBOROUGH RIVER AT HWY 39 NR CRYSTAL SPRINGS FL (LAT 28 11 35N LONG 082 09 55W)													
DEC 2001 17...	1115	--	--	10	5.3	7.8	393	22.3	70.0	3.90	.70	6.6	10.0
MAR 2002 26...	1130	54.21	--	10	5.4	8.1	406	21.0	71.0	3.80	.70	6.6	10.0
MAY 14...	1200	--	--	10	5.3	8.3	379	25.9	68.0	3.50	.60	6.5	9.90
SEP 04...	1330	--	--	400	2.8	7.2	136	26.9	22.0	2.20	2.30	4.6	8.10
281205082080200 HILLSBOROUGH RIVER AT LMRK MINE NR ZEPHYRHILLS FL (LAT 28 12 05N LONG 082 08 02W)													
MAY 2002 15...	1045	--	--	<5	3.7	8.0	380	23.0	68.0	3.50	.50	6.4	9.80
SEP 11...	1130	--	--	480	3.9	7.0	114	25.7	19.0	2.00	2.10	4.2	7.00

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

WATER QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

Date	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHOPHOSPHATE TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ODOR, ATMOS- PHERIC (SEVER- ITY) (01330)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
02302010 HILLSBOROUGH R BL CRYSTAL SPR NEAR ZEPHYRHILLS FL (LAT 28 10 43N LONG 082 11 21W)													
NOV 2001 27...	.4	5.50	32.0	253	E.70	<.01	.930	.01	.420	E.42	13.0	0	13.0
JAN 2002 22...	.1	9.50	10.0	216	.20	.01	1.80	<.01	.030	.03	1.6	--	1.8
MAR 19...	.1	10.0	10.0	211	<.20	.03	2.00	<.01	.030	.03	1.2	0	1.5
MAY 15...	.1	11.0	10.0	205	.30	<.01	2.10	<.01	.030	.06	1.2	0	1.3
JUL 10...	.2	9.80	9.40	210	.70	.02	1.30	<.01	.120	.12	14.0	--	11.0
02302260 ITCHEPAKESASSA CREEK AT S-582 NEAR KNIGHTS FL (LAT 28 04 49N LONG 082 04 24W)													
MAY 2002 08...	.6	.70	10.0	210	1.1	.06	.180	<.01	.740	.78	16.0	0	15.0
SEP 03...	.4	8.30	12.0	168	1.9	.15	.280	.03	.630	.56	23.0	0	24.0
280430082071800 EAST CANAL OF ITCHEPAKESASSA CREEK NR KNIGHTS FL (LAT 28 04 30N LONG 082 07 18W)													
MAY 2002 08...	.6	16.0	190	1060	1.2	.05	.130	<.01	.220	.24	--	0	--
SEP 03...	.5	11.0	58.0	421	1.1	.02	.060	<.01	.410	.30	15.0	0	14.0
280828082062900 BLACKWATER CREEK TRANSECT SITE NR KNIGHTS FL (LAT 28 08 28N LONG 082 06 29W)													
NOV 2001 28...	.2	16.0	7.70	248	<.20	.01	<.020	<.01	E.160	E.16	6.1	0	6.2
MAR 2002 26...	.3	12.0	6.30	238	<.20	<.01	<.020	<.01	.110	.15	4.1	0	4.0
MAY 08...	.3	13.0	2.30	231	.50	.07	<.020	<.01	.170	.16	6.0	0	5.7
SEP 10...	.3	12.0	4.40	179	1.6	.03	.050	.01	.310	.25	31.0	0	--
280858082124800 BLACKWATER CR UPSTREAM OF MOUTH NR ZEPHYRHILLS FL (LAT 28 08 58N LONG 082 12 48W)													
MAY 2002 06...	.4	9.30	44.0	401	.70	.04	.160	<.01	.480	.46	7.0	0	9.3
SEP 11...	.4	11.0	16.0	215	1.4	.02	.290	.01	.470	.43	21.0	0	23.0
281135082095500 HILLSBOROUGH RIVER AT HWY 39 NR CRYSTAL SPRINGS FL (LAT 28 11 35N LONG 082 09 55W)													
DEC 2001 17...	.2	6.60	16.0	E244	.30	.08	.150	<.01	.060	.06	6.6	--	11.0
MAR 2002 26...	.2	7.00	17.0	246	<.20	.02	.150	<.01	.040	.07	5.2	--	5.2
MAY 14...	.2	6.60	20.0	223	.40	.04	.040	<.01	.080	.09	4.1	0	4.2
SEP 04...	.2	6.10	2.50	167	1.7	.03	<.020	.01	.310	.21	35.0	0	38.0
281205082080200 HILLSBOROUGH RIVER AT LMRK MINE NR ZEPHYRHILLS FL (LAT 28 12 05N LONG 082 08 02W)													
MAY 2002 15...	.2	7.10	21.0	218	.40	<.01	.120	<.01	.030	.03	3.2	0	3.0
SEP 11...	.2	5.50	1.10	158	1.7	.02	.030	.01	.300	.24	39.0	0	43.0

MISCELLANEOUS SURFACE WATER RECORDS
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WATER QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

Date	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	N-15 / N-14 STABLE ISOTOPE RATIO PER MIL (82084)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
02302010 HILLSBOROUGH R BL CRYSTAL SPR NEAR ZEPHYRHILLS FL (LAT 28 10 43N LONG 082 11 21W)													
NOV 2001 27...	13.0	1.80	<.050	.60	1.10	90	<.05	<.10	.50	82.0	4.1	--	--
JAN 2002 22...	<.50	.70	.060	<.50	.30	23	.08	<.10	1.20	220	<.5	--	--
MAR 19...	.90	.80	<.050	4.70	.30	5	<.05	<.10	1.20	240	2.2	--	--
MAY 15...	<.50	.80	<.050	2.20	<.20	<2	<.05	<.10	1.00	230	1.3	8.20	1.09
JUL 10...	24.0	.80	<.050	1.40	<.20	221	<.05	<.10	1.20	190	.8	--	--
02302260 ITCHEPAKESASSA CREEK AT S-582 NEAR KNIGHTS FL (LAT 28 04 49N LONG 082 04 24W)													
MAY 2002 08...	10.0	3.60	.060	2.20	1.00	42	.05	<.10	1.40	75.0	4.2	7.20	--
SEP 03...	89.0	3.00	<.050	.90	.80	448	.23	<.10	1.20	52.0	6.5	--	--
280430082071800 EAST CANAL OF ITCHEPAKESASSA CREEK NR KNIGHTS FL (LAT 28 04 30N LONG 082 07 18W)													
MAY 2002 08...	8.30	1.10	.130	7.00	2.60	33	.10	<.10	3.40	330	17.0	12.50	--
SEP 03...	19.0	1.20	.060	<.50	1.30	140	.12	<.10	2.00	150	9.0	--	--
280828082062900 BLACKWATER CREEK TRANSECT SITE NR KNIGHTS FL (LAT 28 08 28N LONG 082 06 29W)													
NOV 2001 28...	9.70	<.10	<.050	<.50	<.20	44	<.05	<.10	<.20	150	.8	--	--
MAR 2002 26...	4.00	.30	<.050	3.70	<.20	30	<.05	<.10	1.30	170	1.1	--	--
MAY 08...	2.70	.40	<.050	2.70	<.20	25	<.05	<.10	1.00	190	.7	--	.100
SEP 10...	260	.80	<.050	.70	.50	414	.33	<.10	1.00	54.0	8.7	--	--
280858082124800 BLACKWATER CR UPSTREAM OF MOUTH NR ZEPHYRHILLS FL (LAT 28 08 58N LONG 082 12 48W)													
MAY 2002 06...	1.60	1.50	.050	3.70	.80	14	<.05	<.10	1.90	850	3.7	7.70	--
SEP 11...	95.0	1.50	<.050	<.50	.70	332	.19	<.10	1.30	120	7.9	--	--
281135082095500 HILLSBOROUGH RIVER AT HWY 39 NR CRYSTAL SPRINGS FL (LAT 28 11 35N LONG 082 09 55W)													
DEC 2001 17...	4.30	.40	<.050	.90	<.20	85	<.05	<.10	.60	160	.9	--	--
MAR 2002 26...	1.10	.70	<.050	5.20	<.20	37	<.05	<.10	1.70	160	1.0	--	--
MAY 14...	1.00	.60	<.050	2.20	.40	15	<.05	<.10	1.10	160	1.3	--	--
SEP 04...	150	.90	<.050	1.10	.80	587	.23	<.10	1.10	44.0	4.0	--	--
281205082080200 HILLSBOROUGH RIVER AT LMRK MINE NR ZEPHYRHILLS FL (LAT 28 12 05N LONG 082 08 02W)													
MAY 2002 15...	<.50	.50	<.050	2.20	.30	9	.20	<.10	1.40	150	1.2	--	9.09
SEP 11...	230	.80	<.050	<.50	.50	805	.32	<.10	1.10	45.0	11.0	--	--

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

WATER QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

Date	U-234 2 SIGMA WATER, DISS, (PCI/L) (75992)	URANIUM -234 WATER DISSOLV (PCI/L) (22610)	U-235 2 SIGMA WATER, DISS, (PCI/L) (75994)	URANIUM -235 WATER, DISS (PCI/L) (22620)	U-238 2 SIGMA WATER, DISS, (PCI/L) (75991)	URANIUM -238 WATER DISSOLV (PCI/L) (22603)
02302010	HILLSBOROUGH R BL CRYSTAL SPR NEAR ZEPHYRHILLS FL (LAT 28 10 43N LONG 082 11 21W)					
NOV 2001						
27...	--	--	--	--	--	--
JAN 2002						
22...	--	--	--	--	--	--
MAR						
19...	--	--	--	--	--	--
MAY						
15...	--	--	--	--	--	--
JUL						
10...	--	--	--	--	--	--
02302260	ITCHEPAKESASSA CREEK AT S-582 NEAR KNIGHTS FL (LAT 28 04 49N LONG 082 04 24W)					
MAY 2002						
08...	--	--	--	--	--	--
SEP						
03...	--	--	--	--	--	--
280430082071800	EAST CANAL OF ITCHEPACKESASSA CREEK NR KNIGHTS FL (LAT 28 04 30N LONG 082 07 18W)					
MAY 2002						
08...	--	--	--	--	--	--
SEP						
03...	--	--	--	--	--	--
280828082062900	BLACKWATER CREEK TRANSECT SITE NR KNIGHTS FL (LAT 28 08 28N LONG 082 06 29W)					
NOV 2001						
28...	--	--	--	--	--	--
MAR 2002						
26...	--	--	--	--	--	--
MAY						
08...	.02	M	M	M	.01	M
SEP						
10...	--	--	--	--	--	--
280858082124800	BLACKWATER CR UPSTREAM OF MOUTH NR ZEPHYRHILLS FL (LAT 28 08 58N LONG 082 12 48W)					
MAY 2002						
06...	--	--	--	--	--	--
SEP						
11...	--	--	--	--	--	--
281135082095500	HILLSBOROUGH RIVER AT HWY 39 NR CRYSTAL SPRINGS FL (LAT 28 11 35N LONG 082 09 55W)					
DEC 2001						
17...	--	--	--	--	--	--
MAR 2002						
26...	--	--	--	--	--	--
MAY						
14...	--	--	--	--	--	--
SEP						
04...	--	--	--	--	--	--
281205082080200	HILLSBOROUGH RIVER AT LMRK MINE NR ZEPHYRHILLS FL (LAT 28 12 05N LONG 082 08 02W)					
MAY 2002						
15...	--	--	--	--	--	--
SEP						
11...	--	--	--	--	--	--

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

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The objective of the study is to assess the effects of ground-water augmentation on hydrology, water quality and ecology of selected marsh and cypress wetlands in the northern Tampa Bay Area.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Time	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	
280848082134400 HILLSBOROUGH RIVER ST PK MARSH NR ZEPHYRHILLS FL (LAT 28 08 48N LONG 082 13 44W)														
AUG 2000	24...	1220	.7	6.5	34	--	5.80	.97	.20	1.1	1.00	.20	118	.015
	24...	1240	1.1	4.5	40	--	3.40	.85	.50	3.0	2.90	.30	119	.019
	24...	1250	3.1	5.0	38	--	3.40	.67	.20	2.0	1.70	.20	122	.021
281812082233800 CYPRESS CREEK MARSH W03 NEAR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)														
JUL 2000	17...	1200	1.3	7.4	399	--	54.0	4.80	2.50	4.2	9.40	7.50	218	.091
	17...	1230	12.5	8.6	226	--	38.0	4.20	.80	3.5	6.50	4.30	151	.012
	17...	1300	4.1	7.7	360	--	59.0	5.60	3.00	5.9	13.0	3.20	248	.015
	17...	1330	5.9	7.5	338	--	56.0	5.40	1.70	5.2	11.0	3.50	211	.020
281812082233801 CYPRESS CREEK MARSH W3 AUGMENTATION NR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)														
JUL 2000	17...	1430	--	7.5	430	25.4	76.0	6.70	.60	4.6	8.40	7.10	257	.166
282157082280301 CROSSBAR DUCK PD AUGMENTATION NR MASARYKTOWN FL (LAT 28 21 57N LONG 082 28 03W)														
MAY 2000	02...	1232	.7	7.2	393	24.5	72.0	1.80	.60	4.3	7.40	<.20	224	.32
282159082280400 CROSSBAR RANCH DUCK POND NEAR MASARYKTOWN FL (LAT 28 21 59N LONG 082 28 04W)														
MAY 2000	02...	1126	4.2	7.2	341	23.0	62.0	2.30	.40	3.9	7.00	1.00	197	.02
	02...	1138	4.7	7.3	344	23.7	62.0	2.30	.40	3.9	6.70	1.00	197	.02
	02...	1150	4.4	7.3	351	23.7	65.0	2.30	.40	3.8	6.70	1.00	200	.02
	02...	1202	3.7	7.2	343	23.3	62.0	2.30	.40	3.9	7.00	1.10	195	.02

Date	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
280848082134400 HILLSBOROUGH RIVER ST PK MARSH NR ZEPHYRHILLS FL (LAT 28 08 48N LONG 082 13 44W)								
AUG 2000	24...	2.4	3.0	.007	.012	.012	.001	.050
	24...	2.3	3.4	.008	.010	.010	<.001	.079
	24...	2.4	2.8	.009	.013	.011	<.001	.016
281812082233800 CYPRESS CREEK MARSH W03 NEAR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)								
JUL 2000	17...	.50	.90	.007	.001	.073	.049	.107
	17...	.40	.80	.003	.001	.003	<.001	.027
	17...	.80	1.1	.002	.002	.012	<.001	.028
	17...	.40	.60	.003	.002	.005	<.001	.014
281812082233801 CYPRESS CREEK MARSH W3 AUGMENTATION NR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)								
JUL 2000	17...	<.20	<.20	.002	.001	.037	.028	.041
282157082280301 CROSSBAR DUCK PD AUGMENTATION NR MASARYKTOWN FL (LAT 28 21 57N LONG 082 28 03W)								
MAY 2000	02...	.40	.30	<.02	<.010	<.02	.02	.02
282159082280400 CROSSBAR RANCH DUCK POND NEAR MASARYKTOWN FL (LAT 28 21 59N LONG 082 28 04W)								
MAY 2000	02...	<.20	<.20	<.02	<.010	<.02	<.01	<.02
	02...	<.20	<.20	<.02	<.010	<.02	<.01	<.02
	02...	<.20	<.20	<.02	<.010	<.02	<.01	<.02
	02...	<.20	<.20	<.02	<.010	<.02	<.01	<.02

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

MISCELLANEOUS SURFACE WATER RECORDS
 OCTOBER 2001 TO SEPTEMBER 2002

WATER QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001--Continued

Date	Time	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	ALKA- LINITY WAT.DIS GRAN T. FIELD (MG/L) CAC03 (29802)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
280848082134400 HILLSBOROUGH RIVER ST PK MARSH NR ZEPHYRHILLS FL (LAT 28 08 48N LONG 082 13 44W)													
NOV 2000													
14...	1150	3.5	4.9	50	--	6.10	1.10	1.40	3.4	13	5.70	.50	130
14...	1210	7.0	4.2	50	--	2.30	.60	1.30	3.4	.2	6.60	.50	105
14...	1220	4.7	4.7	88	--	7.30	1.40	4.10	6.7	14	14.0	.60	160
APR 2001													
10...	1400	2.8	5.5	93	--	11.0	1.20	3.40	6.7	--	9.90	.64	169
10...	1430	4.0	6.2	79	--	5.50	1.10	3.60	6.9	--	9.90	.26	163
10...	1500	5.2	5.3	55	--	3.40	.90	1.70	5.1	--	7.30	<.20	124
JUL													
18...	1400	1.3	4.5	32	--	3.10	.70	<.10	1.40	1.3	2.0	.6	85
18...	1410	1.1	4.8	35	--	5.10	.90	<.10	1.60	2.6	2.1	.6	110
18...	1420	1.3	5.3	39	--	4.40	.78	.50	1.30	2.6	2.0	.8	97
AUG													
23...	1400	1.9	4.8	32	--	3.00	.73	.10	1.30	2.0	1.8	.6	94
281754082231300 CYPRESS CREEK MARSH W29 NEAR DREXEL FL (LAT 28 17 54N LONG 082 23 13W)													
AUG 2001													
22...	1100	1.0	4.4	65	--	5.10	2.50	.20	2.00	5.5	2.9	9.4	151
281812082233800 CYPRESS CREEK MARSH W03 NEAR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)													
NOV 2000													
29...	1100	5.4	7.5	451	--	78.0	6.90	.60	4.7	--	8.00	7.60	250
APR 2001													
17...	1200	7.4	7.7	499	--	85.0	8.60	.60	5.1	--	8.60	31.0	301
17...	1230	7.6	7.8	499	--	86.0	8.60	.50	5.1	--	8.40	31.0	305
17...	1300	7.0	7.7	499	--	86.0	8.60	.60	5.1	--	8.50	31.0	303
JUL													
19...	1030	4.2	6.7	416	--	73.0	6.20	.60	4.70	200	8.3	6.3	239
19...	1040	5.3	7.2	414	--	73.0	6.20	.70	4.70	200	8.3	6.4	239
19...	1050	4.6	7.5	417	--	73.0	6.20	.60	4.80	--	8.3	6.4	238
AUG													
22...	1300	5.0	7.1	453	--	77.0	7.10	.70	4.90	200	8.0	8.1	250
281812082233801 CYPRESS CREEK MARSH W3 AUGMENTATION NR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)													
NOV 2000													
29...	1110	--	6.8	451	23.3	77.0	7.00	.60	4.7	--	8.00	7.70	251
JUL 2001													
19...	1100	--	7.5	389	26.5	73.0	6.30	.70	4.80	190	8.3	6.3	240
282157082280301 CROSSBAR DUCK PD AUGMENTATION NR MASARYKTOWN FL (LAT 28 21 57N LONG 082 28 03W)													
NOV 2000													
28...	1210	--	6.9	357	22.7	68.0	2.40	.50	3.9	170	6.50	1.70	198
APR 2001													
02...	1500	.5	7.5	351	24.0	66.0	2.20	.40	3.2	170	6.00	1.30	197

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001--Continued

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
280848082134400 HILLSBOROUGH RIVER ST PK MARSH NR ZEPHYRHILLS FL (LAT 28 08 48N LONG 082 13 44W)										
NOV 2000										
14...	.028	1.9	2.6	.013	.008	.030	.012	.060	43.0	551
14...	.048	1.8	2.9	.012	.003	.010	.002	.083	33.0	153
14...	.025	2.4	4.2	.013	.009	.012	.002	.128	48.0	990
APR 2001										
10...	.006	2.8	3.2	.003	<.009	.020	<.001	.040	48.0	665
10...	.010	3.3	4.8	.007	.010	.030	.004	.150	47.0	528
10...	.010	2.5	3.0	.007	.009	.020	<.001	.060	40.0	692
JUL										
18...	E.019	1.9	2.2	<.002	E.006	.018	<.001	.035	21.0	600
18...	E.028	2.2	3.5	<.002	E.009	.028	E.004	.088	25.0	490
18...	E.025	2.3	2.2	<.002	E.008	.017	<.001	.027	23.0	510
AUG										
23...	E.025	1.8	1.9	<.002	E.014	<.002	<.001	.003	27.0	420
281754082231300 CYPRESS CREEK MARSH W29 NEAR DREXEL FL (LAT 28 17 54N LONG 082 23 13W)										
AUG 2001										
22...	E.162	3.9	5.8	E.004	E.018	.005	E.002	.033	41.0	750
281812082233800 CYPRESS CREEK MARSH W03 NEAR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)										
NOV 2000										
29...	.110	<.20	<.20	.016	<.001	.030	.030	.030	2.9	8
APR 2001										
17...	.030	.24	.58	<.002	<.001	.030	.020	.050	3.0	8
17...	.040	<.20	.25	.005	<.001	.030	.020	.030	4.9	8
17...	.040	.25	.29	.002	<.001	.020	.020	.030	3.5	8
JUL										
19...	E.088	.30	.20	E.005	<.001	.033	E.026	.037	1.8	M
19...	E.093	.30	.30	E.005	<.001	.029	E.024	.032	3.2	M
19...	E.085	<.20	.30	E.004	<.001	.029	E.025	.036	1.5	M
AUG										
22...	E.096	<.20	.30	E.005	E.002	.026	E.020	.033	2.5	M
281812082233801 CYPRESS CREEK MARSH W3 AUGMENTATION NR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)										
NOV 2000										
29...	.180	<.20	<.20	<.002	<.001	.030	.030	.030	2.8	15
JUL 2001										
19...	E.150	.30	.30	<.002	<.001	.034	E.031	.035	1.0	M
282157082280301 CROSSBAR DUCK PD AUGMENTATION NR MASARYKTOWN FL (LAT 28 21 57N LONG 082 28 03W)										
NOV 2000										
28...	.220	<.20	<.20	<.002	<.001	.020	.020	.030	1.7	86
APR 2001										
02...	.140	.20	.21	.016	.004	.020	.020	.010	2.3	62

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001--Continued

Date	Time	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	ALKA- LINITY WAT.DIS GRAN T. FIELD (MG/L) CAC03 (29802)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	
282157082280301 CROSSBAR DUCK PD AUGMENTATION NR MASARYKTOWN FL (LAT 28 21 57N LONG 082 28 03W)														
JUL 2001	17...	1200	--	7.4	353	24.9	67.0	2.20	.50	3.80	160	6.4	2.0	202
282159082280400 CROSSBAR RANCH DUCK POND NEAR MASARYKTOWN FL (LAT 28 21 59N LONG 082 28 04W)														
NOV 2000	28...	1140	9.0	7.0	340	20.1	65.0	2.30	.50	3.9	170	6.60	1.70	195
	28...	1150	6.6	7.3	342	16.0	66.0	2.40	1.00	4.2	170	7.20	1.90	200
	28...	1200	8.0	7.5	356	16.4	68.0	2.30	1.10	4.3	170	7.60	1.60	208
APR 2001	02...	1330	10.2	8.0	291	27.0	53.0	2.30	.50	3.2	140	6.20	1.40	167
JUL	17...	1130	5.5	6.7	325	29.0	62.0	2.10	.40	3.7	160	6.20	1.40	194
	17...	1140	5.1	7.0	304	30.1	56.2	2.02	.40	3.30	140	5.6	1.1	178
	17...	1150	4.2	7.2	338	27.8	64.2	2.05	.50	3.30	--	5.7	1.4	196
AUG	24...	1130	8.7	7.0	288	30.1	54.0	2.00	.30	3.6	140	6.0	.8	170

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L) AS N (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	PHOS- PHORUS DIS- SOLVED (MG/L) AS P (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L) AS P (00671)	PHOS- PHORUS TOTAL (MG/L) AS P (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C (00681)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	
282157082280301 CROSSBAR DUCK PD AUGMENTATION NR MASARYKTOWN FL (LAT 28 21 57N LONG 082 28 03W)											
JUL 2001	17...	E.070	.30	.30	<.002	<.001	.016	E.013	.030	1.4	8
282159082280400 CROSSBAR RANCH DUCK POND NEAR MASARYKTOWN FL (LAT 28 21 59N LONG 082 28 04W)											
NOV 2000	28...	.060	<.20	.32	.022	<.001	.010	.010	.030	1.9	12
	28...	.005	<.20	.38	<.002	<.001	.002	.002	.020	3.0	3
	28...	<.002	<.20	.20	.017	<.001	.005	.004	.020	2.4	6
APR 2001	02...	.002	.39	.38	<.002	<.001	.003	<.001	.008	2.7	6
JUL	17...	<.002	<.20	E.40	E.015	<.001	.008	E.039	.039	2.8	10
	17...	E.005	.47	.50	<.002	<.001	.005	<.001	.010	1.9	5
	17...	E.003	.24	.64	<.002	<.001	.004	E.002	.020	2.3	8
AUG	24...	<.002	<.20	<.20	<.002	<.001	.002	<.001	.011	4.4	9

Remark codes used in this report:
 < -- Less than
 E -- Estimated value
 M -- Presence verified, not quantified

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

Date	Time	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K) (00935)	SODIUM, DIS- SOLVED (MG/L) AS NA) (00930)	ALKA- LINITY WAT.DIS GRAN T. FIELD (MG/L) CAC03) (29802)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	SULFATE DIS- SOLVED (MG/L) AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
280848082134400 HILLSBOROUGH RIVER ST PK MARSH NR ZEPHYRHILLS FL (LAT 28 08 48N LONG 082 13 44W)													
NOV 2001 01...	1230	3.8	4.5	37	--	2.70	.71	.40	2.4	1.6	3.30	.40	97
MAR 2002 07...	1330	6.5	5.1	47	--	1.70	.66	.20	3.2	--	4.50	.40	87
JUL 18...	1000	3.2	4.8	34	--	3.30	.71	.30	1.6	--	2.20	.40	81
281754082231300 CYPRESS CREEK MARSH W29 NEAR DREXEL FL (LAT 28 17 54N LONG 082 23 13W)													
JUL 2002 31...	1200	6.1	5.1	67	--	4.10	2.10	1.40	3.7	3.0	6.90	7.10	123
281812082233800 CYPRESS CREEK MARSH W03 NEAR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)													
NOV 2001 06...	1200	4.3	7.2	432	--	72.0	7.30	.80	4.7	210	7.90	7.00	238
MAR 2002 06...	1200	6.2	7.5	434	24.6	74.0	6.90	.60	4.5	200	8.10	7.80	251
JUL 16...	1200	4.3	7.3	427	30.0	72.0	7.60	1.00	5.0	200	8.90	21.0	265
281812082233801 CYPRESS CREEK MARSH W3 AUGMENTATION NR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)													
NOV 2001 08...	0930	--	6.4	432	25.1	77.0	7.10	.70	4.6	210	7.90	6.20	246
MAR 2002 06...	1015	--	8.0	426	24.1	75.0	6.80	.60	4.4	200	8.00	7.60	252
JUL 16...	1330	--	7.3	491	28.4	82.0	8.40	.70	5.0	210	8.40	32.0	291
282157082280301 CROSSBAR DUCK PD AUGMENTATION NR MASARYKTOWN FL (LAT 28 21 57N LONG 082 28 03W)													
NOV 2001 08...	1000	--	6.9	341	23.1	64.0	2.60	.50	3.3	170	5.80	2.50	194
MAR 2002 06...	1500	--	7.8	340	24.1	64.0	2.40	.40	3.2	160	5.80	2.80	192
MAY 08...	1420	--	7.5	354	23.5	66.0	2.40	.50	3.3	170	6.20	1.70	--
JUL 15...	1200	--	7.2	346	26.2	63.0	2.60	.40	3.3	170	5.70	2.60	191
282159082280400 CROSSBAR RANCH DUCK POND NEAR MASARYKTOWN FL (LAT 28 21 59N LONG 082 28 04W)													
NOV 2001 08...	1030	13.3	7.2	292	24.0	58.0	2.50	.40	3.6	150	6.20	2.40	179
MAR 2002 06...	1530	12.2	8.0	269	23.8	49.0	2.20	.40	3.4	120	6.10	1.90	149
MAY 09...	1415	6.5	7.3	300	27.5	54.0	2.50	.60	3.6	140	6.70	1.40	--
JUL 15...	1100	7.8	7.8	240	32.1	42.0	2.00	.40	2.8	110	5.00	1.50	143

MISCELLANEOUS SURFACE WATER RECORDS
OCTOBER 2001 TO SEPTEMBER 2002

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002--Continued

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
280848082134400 HILLSBOROUGH RIVER ST PK MARSH NR ZEPHYRHILLS FL (LAT 28 08 48N LONG 082 13 44W)										
NOV 2001										
01...	<.002	E1.2	E1.7	E.002	E.012	E.004	<.001	E.007	39.0	380
MAR 2002										
07...	<.002	1.6	3.3	<.002	.012	.014	<.001	.037	40.0	219
JUL										
18...	.019	1.8	1.8	.006	.010	<.002	<.001	.004	37.0	356
281754082231300 CYPRESS CREEK MARSH W29 NEAR DREXEL FL (LAT 28 17 54N LONG 082 23 13W)										
JUL 2002										
31...	.027	2.7	3.4	.072	.010	.022	<.001	.043	39.0	322
281812082233800 CYPRESS CREEK MARSH W03 NEAR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)										
NOV 2001										
06...	E.028	E.20	E.40	E.003	E.001	E.022	E.014	E.041	6.4	5
MAR 2002										
06...	.053	<.20	<.20	.017	.001	.030	.025	.034	5.3	6
JUL										
16...	.019	.50	1.0	.003	<.001	.017	.006	.059	7.2	25
281812082233801 CYPRESS CREEK MARSH W3 AUGMENTATION NR DREXEL FL (LAT 28 18 12N LONG 082 23 38W)										
NOV 2001										
08...	E.156	E.20	E.40	<.002	<.001	E.030	E.026	E.030	4.8	11
MAR 2002										
06...	.164	.20	<.20	<.002	<.001	.035	.031	.035	5.9	11
JUL										
16...	.124	<.20	<.20	<.002	<.001	.030	.030	.035	2.7	17
282157082280301 CROSSBAR DUCK PD AUGMENTATION NR MASARYKTOWN FL (LAT 28 21 57N LONG 082 28 03W)										
NOV 2001										
08...	E.075	<.20	E.30	E.017	E.006	E.018	E.013	E.021	5.0	15
MAR 2002										
06...	.061	<.20	<.20	.029	.005	.019	.016	.020	1.1	28
MAY										
08...	.13	.30	--	<.02	<.010	--	.01	--	1.9	108
JUL										
15...	.068	<.20	.30	.019	.009	.016	.017	.018	1.4	56
282159082280400 CROSSBAR RANCH DUCK POND NEAR MASARYKTOWN FL (LAT 28 21 59N LONG 082 28 04W)										
NOV 2001										
08...	<.002	<.20	<.20	<.002	<.001	E.005	<.001	E.012	6.8	4
MAR 2002										
06...	<.002	<.20	<.20	<.002	<.001	.005	.003	.012	5.4	3
MAY										
09...	<.01	.50	--	<.02	<.010	--	<.01	--	5.6	11
JUL										
15...	<.002	.40	.40	<.002	<.001	.003	<.001	.011	5.0	6

Remark codes used in this report:

< -- Less than

E -- Estimated value

ELEVATION OF LAKES

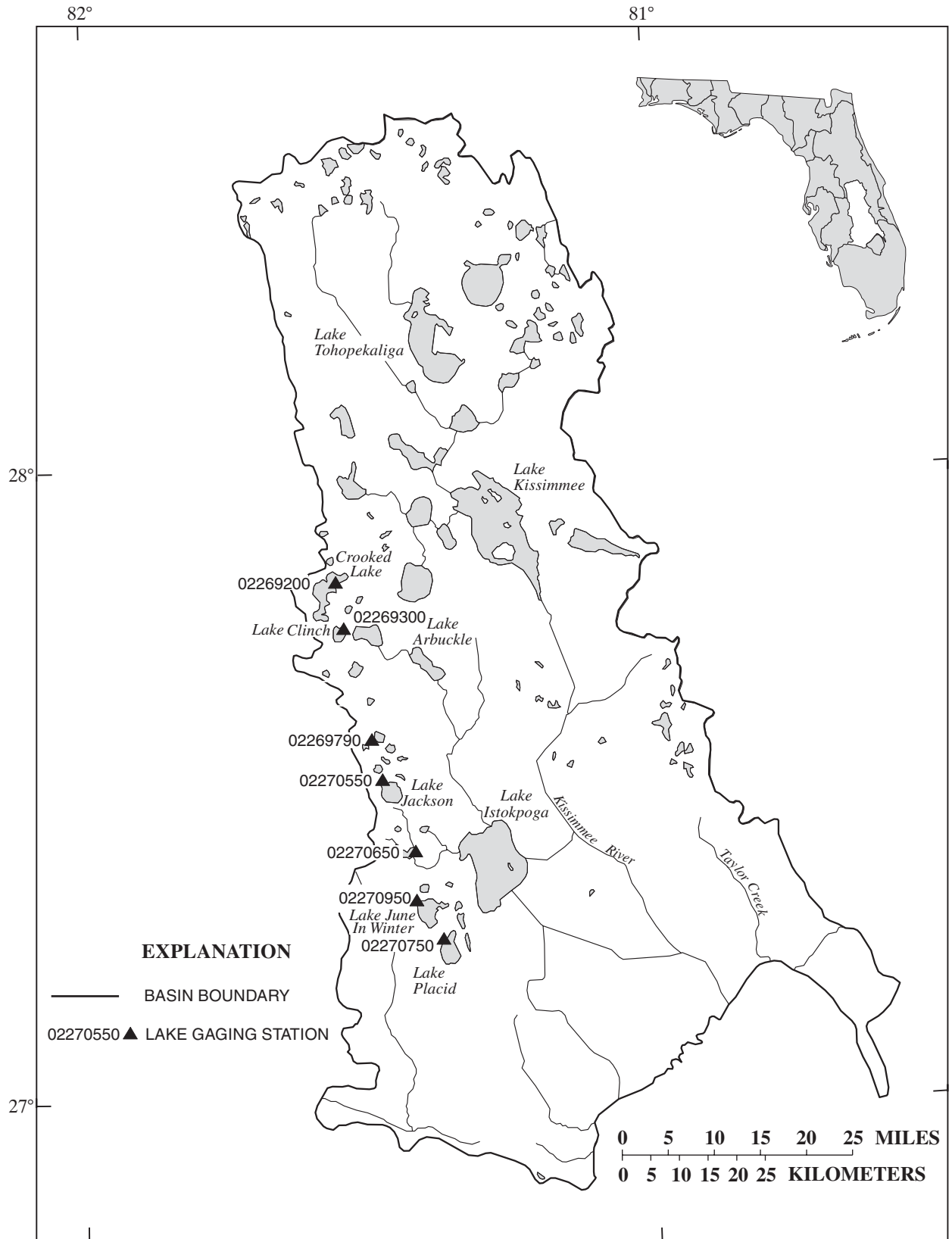


Figure 18.--Location of lake gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okeechobee from the north; and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02270750 LAKE PLACID NEAR LAKE PLACID, FL

LOCATION.--Lat 27°15'37", long 81°22'22" (1927 North American datum), in NE $\frac{1}{4}$ sec.13, T.37 S., R.29 E., Highlands County, Hydrologic Unit 03090101, on northwest shore of lake, on private dock, 0.7 mi northeast of head of Placid-June Canal, and 2.8 mi south of town of Lake Placid.

SURFACE AREA.--3,381 acres (5.28 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 September 2001 (twice weekly), incomplete; October 2001 to September 2002 (weekly). 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, 93.60 ft, Sept. 28; minimum observed, 90.12 ft, June 7.

ELEVATION, IN FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	91.58	---	91.28	---	---	---	---	91.84	---	93.10
2	91.66	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	91.34	---	---	90.92	---	90.18	---	---	---
4	---	---	---	---	---	91.26	---	---	---	---	92.34	93.24
5	---	---	---	---	---	---	---	---	---	91.86	---	---
6	---	91.72	---	---	---	---	---	---	---	---	---	---
7	---	---	---	91.30	---	---	---	90.42	90.12	---	---	---
8	---	91.72	---	---	91.22	---	---	---	---	---	---	93.30
9	---	---	---	---	---	91.20	---	90.30	---	---	---	---
10	---	---	---	---	---	---	90.80	---	---	---	92.44	---
11	---	---	---	---	---	---	---	---	90.36	---	---	93.34
12	---	---	---	---	---	---	---	---	90.38	---	---	---
13	---	---	---	---	91.32	91.20	---	---	---	---	---	---
14	91.64	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	92.14	---	93.36
16	---	---	---	91.30	91.32	---	---	---	---	---	---	93.38
17	---	---	---	---	---	---	90.74	---	---	92.14	---	---
18	---	---	---	---	---	---	---	---	---	92.14	92.78	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	91.58	---	---	---	---	91.12	---	---	---	---	92.86	---
21	---	---	---	---	91.26	---	---	90.38	---	---	---	---
22	---	---	---	---	---	---	---	---	---	92.28	---	---
23	91.72	---	---	---	---	---	---	---	91.20	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	91.30	91.36	---	---	---	---	---	---	---
26	---	91.62	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	91.04	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	91.68	---	---	93.60
29	---	---	---	---	---	---	---	90.18	91.70	92.28	92.92	---
30	---	---	---	---	---	---	90.56	---	---	---	---	---
31	---	---	---	---	---	---	---	90.24	---	92.28	---	---

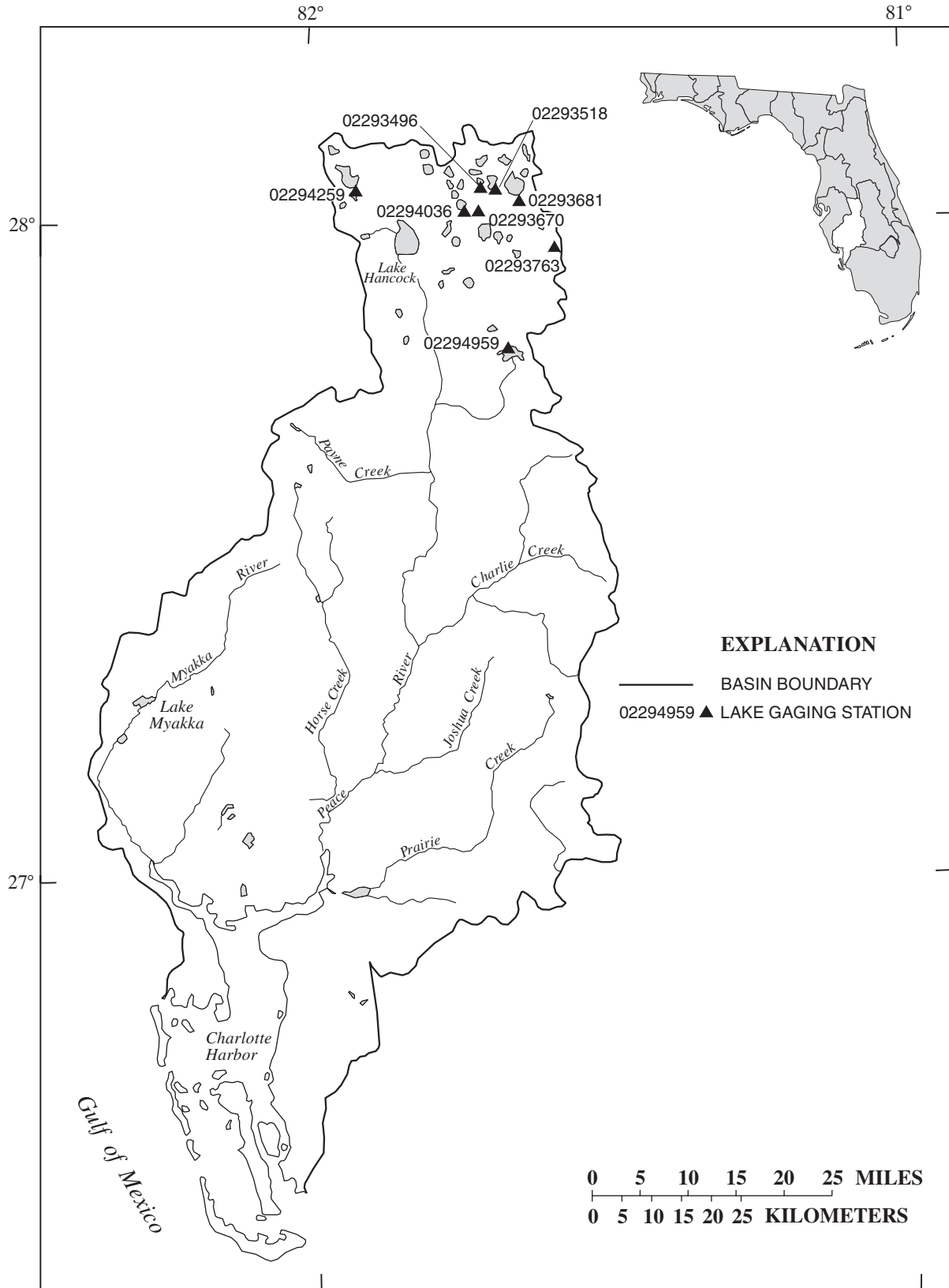


Figure 19.--Location of lake gaging stations in the Peace and Myakka River basins, Charlotte Harbor and Coastal area.

PEACE RIVER BASIN

02293670 LAKE OTIS AT WINTER HAVEN, FL

LOCATION.--Lat 28°01'00", long 81°42'52" (1927 North American datum), in SE¹/₄ sec.28, T.28 S., R.26 E., Polk County, Hydrologic Unit 03100101, on west shore of lake, and 1.0 mi east of Winter Haven.

SURFACE AREA.--144 acres (0.22 mi²).

DRAINAGE AREA.--1.00 mi².

PERIOD OF RECORD.--August 1954 to September 1992; October 1992 to September 1994 (weekly), incomplete; October 1994 to current year (monthly). Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 120.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Apr. 5, 1974, at sites on northeast shore of lake, 1,800 ft northeast at same datum; Apr. 5, 1974, to Sept. 30, 1992, water-stage recorder at present site at same datum.

REMARKS.--Lake is one of the Peace River headwater lakes.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 129.18 ft, Sept. 10, 1960; minimum, 119.56 ft, May 15, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 124.76 ft, Sept. 27; minimum observed, 122.40 ft, May 31.

ELEVATION, IN FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	124.31	---	---	---	---	---	---	---	---	---
19	---	---	124.30	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	123.57	---	---	---	---	124.72
25	124.45	---	---	---	---	---	---	---	122.72	124.00	---	---
26	---	---	---	---	124.40	124.06	---	---	---	---	---	---
27	---	124.42	---	---	---	---	123.46	---	---	---	124.36	124.76
28	---	---	---	---	---	---	---	---	122.72	---	---	---
29	---	---	---	---	---	123.90	---	122.50	---	---	---	---
30	---	124.40	---	---	---	---	---	---	---	124.18	124.44	---
31	---	---	---	124.08	---	---	---	122.40	---	---	---	---

PEACE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02293681 LAKE HAMILTON NEAR LAKE HAMILTON, FL

LOCATION.--Lat 28°01'54", long 81°38'42" (1927 North American datum), in SE $\frac{1}{4}$ 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 1998 to current year (twice monthly). Records of elevations prior to October 1960 are available in files of the Geological Survey. Since February 1963, records for Lake Hamilton Outlet at structure P-8, near Lake Hamilton.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 115.00 ft above National Geodetic Vertical Datum of 1929 (Peace River Valley Water Conservation and Drainage District reference mark); gage readings have been reduced to elevations above NGVD. Prior to Sept. 30, 1992, water-stage recorder at present site at same datum. See WDR FL-75-3 for history of changes prior to Mar. 20, 1975.

REMARKS.--Lake is in headwaters of Peace River and is connected by outlet to Peace Creek drainage canal. Since July 20, 1962, lake level controlled by structure P-8. Prior to July 20, 1962, lake level partly controlled by a concrete dam with removable boards in former outlet.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 124.34 ft, Oct. 3, 1948; minimum observed, 116.69 ft, June 18, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 119.10 ft, Sept. 23; minimum observed, 117.49 ft, June 4.

ELEVATION, IN FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118.84	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	117.49	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	118.56	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	117.61	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	118.68	---	---	---	---	---	---	---	---	---
18	---	---	---	---	118.46	---	---	---	---	---	---	---
19	---	---	118.68	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	118.60	---	---	---	---	---	---	---	---
23	---	---	---	118.59	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	117.62	118.42	119.10
25	118.90	---	---	---	---	118.32	---	---	118.10	---	---	---
26	---	118.79	---	---	---	---	---	---	---	---	---	---
27	---	118.78	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	118.71	---	---	---	---	---	118.47	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	118.91	---	---	---	---	---	---	---	---	118.38	---	---
31	---	---	---	---	---	---	117.98	---	---	---	---	---

PEACE RIVER BASIN

02293763 LAKE STARR NEAR WAVERLY, FL

LOCATION.--Lat 27°57'17", long 81°35'33" (1927 North American datum), in SW $\frac{1}{4}$ sec.14, T.29 S., R.27 E., Polk County, Hydrologic Unit 03100101, on west shore of lake at East Starr Avenue, 800 ft east of Alternate U.S. Highway 27, and 2.1 mi south of Waverly.

SURFACE AREA.--134 acres (0.21 mi²).

DRAINAGE AREA.--1.15 mi² (revised).

PERIOD OF RECORD.--September 1995 to April 2001 (incomplete); May 19 to September 30, 2001 (daily observer readings); October 2001 to September 2002. Records of elevations prior to October 1995 are available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 82.87 ft above National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark); gage readings have been reduced to elevations above NGVD. Prior to May 9, 2000, at same site at datum 20.50 ft lower.

REMARKS.--Lake elevation was measured as part of a special study to compute lake-water budgets.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 106.57 ft, Apr. 4, 1998; minimum observed, 96.23 ft, July 5, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 99.55 ft, Feb. 23, 24, 26; minimum, 97.98 ft, June 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98.54	98.90	99.17	99.26	99.40	99.48	99.10	98.63	98.10	98.77	98.84	99.15
2	98.54	98.92	99.17	99.28	99.40	99.48	99.08	98.61	98.08	98.77	98.84	99.14
3	98.54	98.94	99.18	99.31	99.39	99.48	99.08	98.59	98.06	98.76	98.88	99.14
4	98.54	98.96	99.18	99.30	99.38	99.48	99.08	98.56	98.04	98.75	98.91	99.19
5	98.55	98.98	99.17	99.28	99.36	99.46	99.06	98.54	98.02	98.75	98.90	99.33
6	98.55	98.98	99.17	99.28	99.35	99.44	99.03	98.52	98.00	98.74	98.89	99.32
7	98.58	98.98	99.18	99.28	99.36	99.43	99.00	98.49	98.04	98.72	98.88	99.31
8	98.60	98.99	99.20	99.28	99.37	99.43	98.97	98.46	98.19	98.71	98.88	99.30
9	98.59	99.00	99.22	99.26	99.36	99.43	98.95	98.43	98.19	98.74	98.86	99.29
10	98.58	99.00	99.22	99.25	99.37	99.43	98.93	98.40	98.20	98.78	98.84	99.28
11	98.59	99.01	99.22	99.25	99.38	99.42	98.92	98.37	98.25	98.79	98.82	99.29
12	98.59	99.02	99.23	99.25	99.38	99.41	98.90	98.34	98.24	98.83	98.81	99.30
13	98.60	99.04	99.23	99.26	99.38	99.40	98.90	98.31	98.23	98.85	98.80	99.31
14	98.61	99.09	99.23	99.28	99.38	99.39	98.90	98.29	98.22	98.85	98.80	99.33
15	98.62	99.09	99.23	99.36	99.37	99.38	98.91	98.25	98.21	98.85	98.87	99.33
16	98.63	99.09	99.24	99.36	99.37	99.37	98.90	98.21	98.20	98.84	98.91	99.33
17	98.63	99.10	99.25	99.37	99.36	99.36	98.88	98.19	98.19	98.83	98.92	99.32
18	98.62	99.10	99.26	99.37	99.35	99.35	98.87	98.18	98.27	98.82	98.92	99.32
19	98.62	99.11	99.26	99.38	99.34	99.34	98.85	98.31	98.35	98.82	98.92	99.33
20	98.68	99.12	99.25	99.38	99.34	99.32	98.83	98.34	98.38	98.82	98.94	99.36
21	98.76	99.13	99.24	99.38	99.34	99.30	98.81	98.31	98.43	98.82	99.00	99.35
22	98.80	99.13	99.23	99.39	99.38	99.28	98.80	98.28	98.45	98.82	99.01	99.35
23	98.82	99.14	99.22	99.40	99.50	99.25	98.78	98.25	98.48	98.80	99.00	99.34
24	98.85	99.14	99.23	99.40	99.55	99.23	98.75	98.22	98.55	98.79	98.99	99.36
25	98.89	99.15	99.24	99.40	99.54	99.21	98.73	98.20	98.60	98.79	98.98	99.46
26	98.91	99.16	99.25	99.41	99.54	99.21	98.71	98.18	98.65	98.83	98.97	99.53
27	98.90	99.17	99.24	99.41	99.54	99.19	98.72	98.16	98.70	98.88	98.96	99.52
28	98.89	99.17	99.24	99.41	99.51	99.17	98.70	98.14	98.70	98.88	98.96	99.52
29	98.88	99.17	99.24	99.41	---	99.15	98.68	98.12	98.71	98.87	98.98	99.52
30	98.88	99.17	99.25	99.41	---	99.13	98.66	98.10	98.73	98.86	99.05	99.51
31	98.89	---	99.26	99.40	---	99.12	---	98.09	---	98.85	99.15	---
MEAN	98.69	99.06	99.22	99.34	99.40	99.34	98.88	98.32	98.32	98.81	98.92	99.34
MAX	98.91	99.17	99.26	99.41	99.55	99.48	99.10	98.63	98.73	98.88	99.15	99.53
MIN	98.54	98.90	99.17	99.25	99.34	99.12	98.66	98.09	98.00	98.71	98.80	99.14

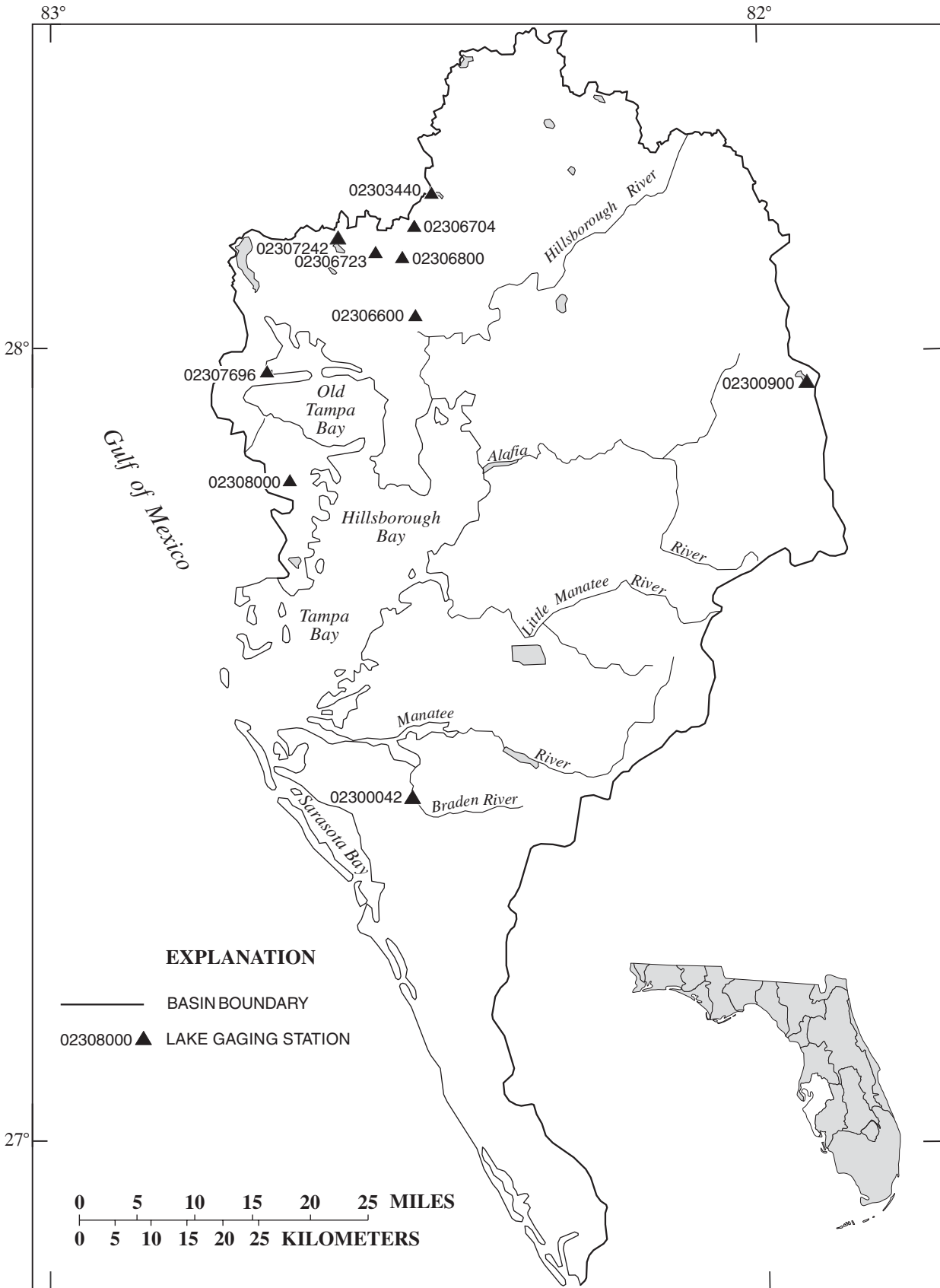


Figure 20.--Location of lake gaging stations in the Manatee, Little Manatee, Alafia, Hillsborough River basins, Tampa Bay and coastal area.

MANATEE RIVER BASIN

02300042 WARD LAKE NEAR BRADENTON, FL

LOCATION.--Lat 27°26'28", long 82°29'16" (1927 North American datum), in NE $\frac{1}{4}$ sec.15, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on west shore of lake, 40 ft upstream from control structure, and 5 mi southeast of Bradenton.

SURFACE AREA.--57.6 acres (0.09 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, 2001, and 2002 water year provided by City of Bradenton.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6.15 ft, Sept. 7, 1988; minimum observed, 2.60 ft below NGVD, June 16, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.68 ft, Aug. 28; minimum, 0.49 ft below NGVD, June 4.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.04	3.94	3.47	2.85	3.46	3.94	3.36	2.23	0.68	4.07	4.06	4.40
2	4.04	3.93	3.45	2.85	3.44	3.93	3.33	2.18	0.61	4.04	4.06	4.29
3	4.04	3.93	3.42	2.88	3.43	3.91	3.30	2.12	0.55	4.04	4.09	4.23
4	4.04	3.92	3.38	2.89	3.40	3.90	3.27	2.06	0.49	4.08	4.09	4.28
5	4.04	3.91	3.35	2.90	3.36	3.90	3.23	2.01	0.57	4.07	4.11	4.23
6	4.04	3.90	3.33	2.91	3.33	3.90	3.18	1.96	0.53	4.02	4.11	4.27
7	4.03	3.90	3.30	2.91	3.33	3.90	3.14	1.90	0.53	4.00	4.04	4.28
8	4.01	3.89	3.29	2.90	3.38	3.90	3.09	1.84	0.59	3.98	4.03	4.21
9	4.00	3.88	3.27	2.88	3.40	3.90	3.04	1.78	0.78	3.96	4.00	4.16
10	3.98	3.88	3.26	2.87	3.41	3.90	2.98	1.66	0.83	3.99	3.98	4.19
11	3.98	3.87	3.24	2.85	3.43	3.89	2.93	1.61	0.83	4.02	3.97	4.17
12	3.98	3.86	3.22	2.84	3.43	3.88	2.89	1.55	0.83	4.22	3.96	4.28
13	3.98	3.85	3.20	2.85	3.42	3.88	2.88	1.47	0.89	4.45	3.97	4.36
14	3.98	3.84	3.18	2.85	3.43	3.87	2.87	1.41	0.87	4.48	4.11	4.24
15	3.99	3.84	3.16	3.02	3.43	3.86	2.87	1.32	0.90	4.28	4.33	4.16
16	3.94	3.83	3.14	3.19	3.43	3.85	2.86	1.31	0.88	4.13	4.20	4.14
17	3.92	3.81	3.11	3.31	3.41	3.84	2.82	1.27	0.91	4.07	4.11	4.12
18	3.91	3.79	3.10	3.37	3.39	3.83	2.82	1.24	1.05	4.07	4.12	4.09
19	3.91	3.78	3.11	3.42	3.37	3.80	2.81	1.32	1.31	4.07	4.09	4.08
20	3.91	3.75	3.09	3.46	3.36	3.78	2.79	1.27	1.49	4.05	4.11	4.07
21	3.95	3.73	3.06	3.49	3.34	3.76	2.76	1.22	1.78	4.04	4.17	4.07
22	4.03	3.71	3.04	3.51	3.41	3.73	2.72	1.18	1.95	4.03	4.26	4.05
23	4.02	3.69	3.01	3.52	3.95	3.70	2.67	1.11	2.55	4.02	4.16	4.05
24	3.99	3.67	2.99	3.53	4.10	3.67	2.61	1.06	2.88	4.00	4.09	4.05
25	3.97	3.65	2.97	3.53	4.04	3.63	2.56	1.01	3.07	4.00	4.05	4.10
26	4.00	3.62	2.96	3.53	4.00	3.59	2.51	0.94	3.60	4.04	4.05	4.06
27	3.99	3.59	2.94	3.53	3.96	3.55	2.46	0.92	4.00	4.15	4.20	4.04
28	3.97	3.56	2.91	3.52	3.95	3.52	2.41	0.87	4.03	4.09	4.64	4.03
29	3.95	3.53	2.89	3.51	---	3.49	2.35	0.83	4.03	4.05	4.49	4.01
30	3.95	3.50	2.88	3.49	---	3.45	2.29	0.75	4.06	4.13	4.31	4.00
31	3.94	---	2.86	3.48	---	3.40	---	0.71	---	4.11	4.44	---
MEAN	3.98	3.79	3.15	3.18	3.53	3.78	2.86	1.42	1.60	4.09	4.14	4.16
MAX	4.04	3.94	3.47	3.53	4.10	3.94	3.36	2.23	4.06	4.48	4.64	4.40
MIN	3.91	3.50	2.86	2.84	3.33	3.40	2.29	0.71	0.49	3.96	3.96	4.00

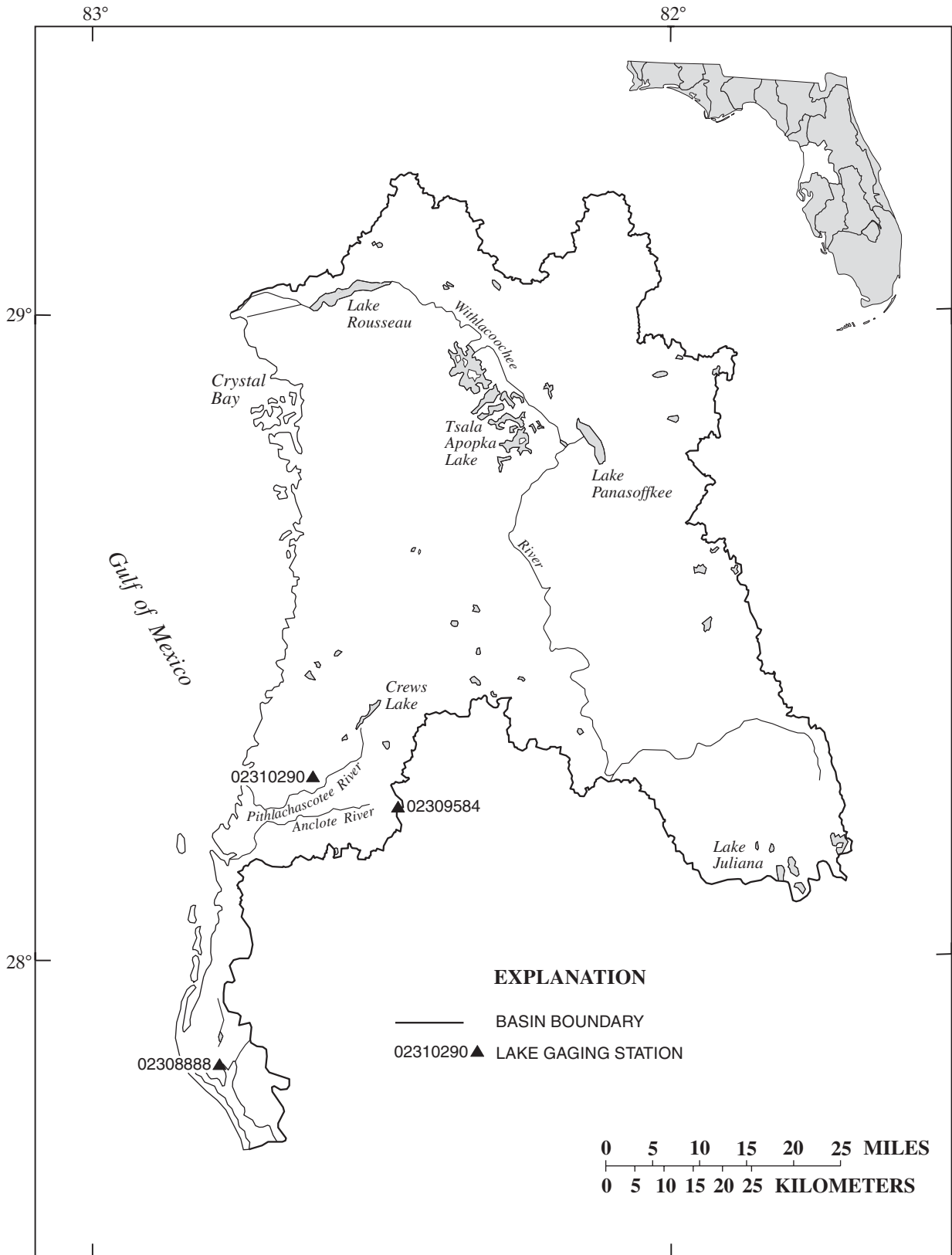


Figure 21.--Location of lake gaging stations in the Coastal area from Tampa Bay to Withlacoochee River.

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310290 MOON LAKE NEAR NEW PORT RICHEY, FL

LOCATION.--Lat 28°17'07", long 82°37'00" (1927 North American datum), 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, 33.60 ft, June 20, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 37.92 ft, Sept. 27; minimum observed, 33.74 ft, June 14.

ELEVATION, IN FT (NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.55	---	---	---	35.01	34.91	34.89	34.54	---	34.45	---	---
2	---	35.26	---	34.84	---	---	---	---	---	---	36.43	37.52
3	35.53	---	---	---	---	---	34.85	34.51	33.95	34.71	---	---
4	---	---	---	34.97	34.95	35.03	---	---	---	---	---	37.55
5	35.51	35.25	---	---	---	---	34.93	---	33.91	34.74	36.79	---
6	---	---	---	---	34.93	35.02	---	34.45	---	---	---	37.68
7	---	35.23	---	34.97	---	---	---	---	33.87	---	36.81	---
8	35.51	---	---	---	34.95	35.01	34.87	34.41	---	34.75	---	---
9	---	35.21	---	34.97	---	---	---	---	---	---	36.88	37.73
10	35.48	---	35.05	---	---	---	34.83	34.36	33.81	34.75	---	---
11	---	---	---	34.96	34.94	35.01	---	---	---	---	---	37.73
12	35.45	35.19	35.04	---	---	---	34.82	---	33.76	34.89	36.86	---
13	---	---	35.04	---	34.91	35.01	---	34.29	---	---	---	37.80
14	---	35.17	35.03	34.99	---	---	---	---	33.74	---	36.91	---
15	35.46	---	---	---	34.89	35.00	34.80	34.24	---	35.21	---	---
16	---	35.15	---	35.04	---	---	---	---	---	35.21	36.96	37.84
17	35.45	---	35.01	---	---	---	34.78	34.21	34.03	35.20	---	---
18	---	---	35.04	35.03	34.87	34.96	---	---	---	---	---	37.85
19	35.41	35.13	34.97	---	---	---	34.77	---	34.27	35.19	37.04	---
20	---	---	---	---	34.85	34.95	---	34.17	---	---	---	37.86
21	---	35.12	34.95	35.03	---	---	---	34.14	34.25	---	37.13	---
22	35.41	---	---	---	34.87	34.94	34.73	34.11	---	35.47	37.17	---
23	35.42	35.11	---	35.02	---	---	34.76	34.10	---	---	37.15	37.86
24	35.41	---	34.93	---	---	---	34.68	34.05	34.35	35.56	---	---
25	---	---	---	35.02	34.95	34.87	---	---	---	---	---	37.86
26	35.41	35.09	34.90	---	---	34.96	34.64	---	34.39	35.67	37.15	---
27	---	35.10	---	---	34.93	34.95	---	34.05	---	---	37.20	37.92
28	---	35.07	34.88	35.01	34.96	---	---	---	34.39	---	37.17	---
29	35.30	---	---	35.04	---	34.92	34.57	34.03	---	36.22	---	---
30	---	35.05	---	35.01	---	---	---	---	---	36.28	37.25	37.91
31	35.28	---	34.87	---	---	---	---	33.99	---	36.31	---	---

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CONVERSION FACTORS

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

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$\text{°F} = (1.8 \times \text{°C}) + 32$$