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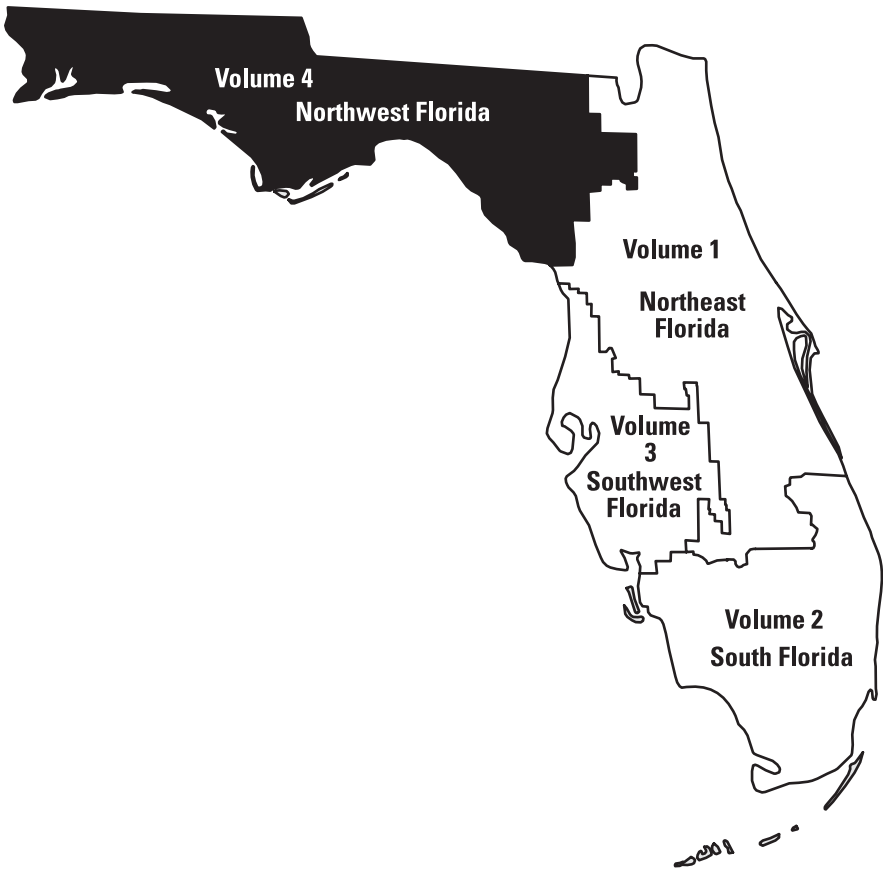
Water Resources Data Florida Water Year 2005

Volume 4. Northwest Florida



Water-Data Report FL-05-4

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

Calendar for Water Year 2005

2004

October

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2005

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31						

August

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Water Resources Data
Florida
Water Year 2005

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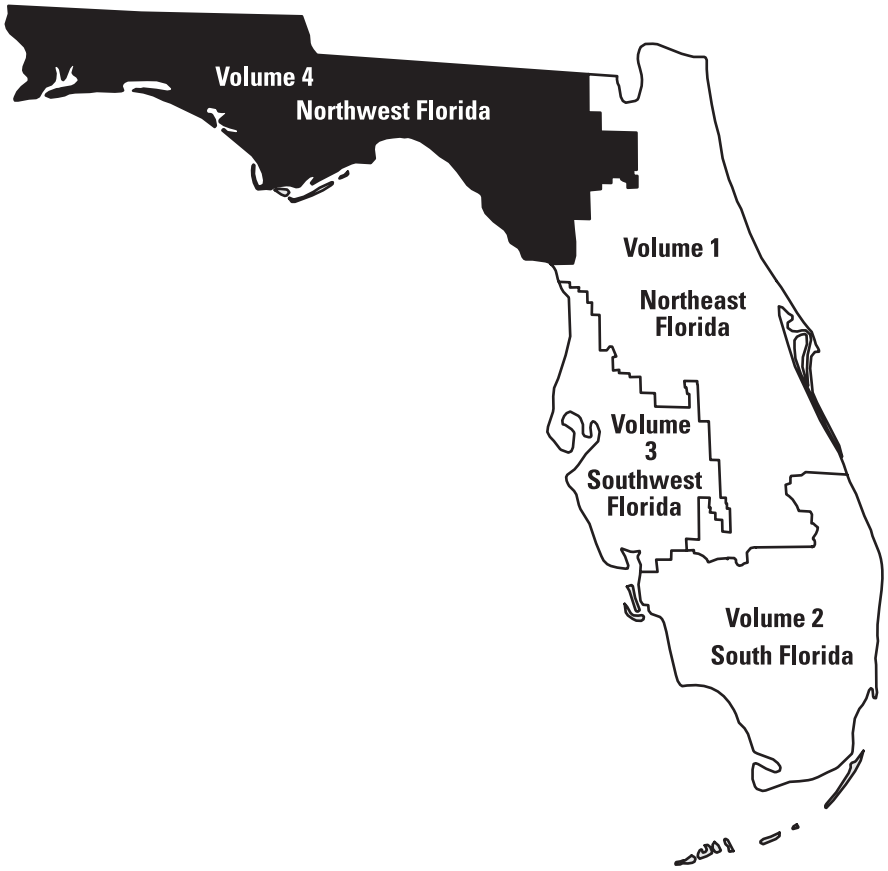

Prepared in cooperation with the
State of Florida and with other agencies

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

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http://fl.water.usgs.gov/

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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 from 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 was prepared for publication by Darlene A. Blum and A. Ernie Alvarez under the supervision of Stewart A. Tomlinson. The following individuals contributed significantly to the collection, processing, and tabulation of the data:

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13. ABSTRACT *(Maximum 200 words)*

This report series for the 2005 water year for the state of Florida consists of records for continuous or daily discharge for 429 streams, periodic discharge for 9 streams, continuous or daily stage for 218 streams, periodic stage for 5 streams, peak stage and discharge for 28 streams, continuous or daily elevations for 15 lakes, periodic elevations for 23 lakes, continuous ground-water levels for 401 wells, periodic ground-water levels for 1,098 wells, and quality-of-water for 211 surface-water sites and 208 wells.

This volume (Volume 4, Northwest Florida) contains records of continuous or daily discharge for 76 streams, periodic discharge for 2 streams, continuous or daily stage for 14 streams, periodic stage for 0 streams, peak stage and discharge for 20 streams, continuous or daily elevations for 1 lake, periodic elevations for 0 lakes, continuous ground-water levels for 2 wells, periodic ground-water levels for 0 wells, and quality-of-water for 3 surface-water sites and 0 wells.

These data represent the National Water Data System records collected by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Florida.

14. SUBJECT TERMS
*Florida, *Hydrologic data, *Surface water, *Ground water, *Water-quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses, Elevations, Water wells

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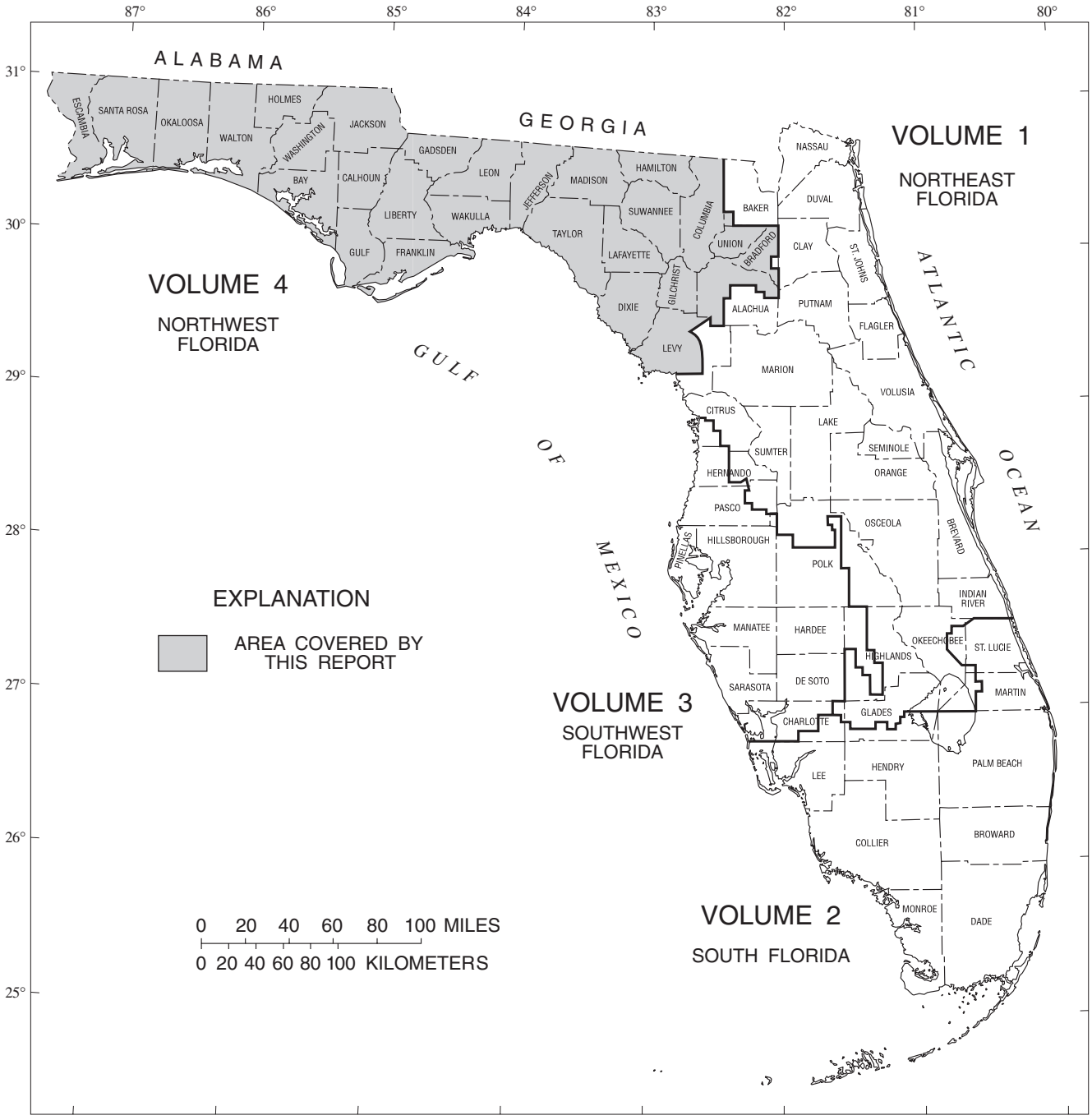

Figure 1. Geographic area covered by this report.

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ILLUSTRATIONS

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

[Letters after station names designate type of data: (d) discharge, (q) discharge measurements only, (c) chemical, (b) biological, (m) microbiological, (s) sediment, (t) temperature, (e) elevation, gage heights, or contents]

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

[Letters after station names designate type of data: (d) discharge, (q) discharge measurements only, (c) chemical, (b) biological, (m) microbiological, (s) sediment, (t) temperature, (e) elevation, gage heights, or contents]

GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

The following continuous-record surface-water discharge stations (gaging stations) in Florida have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage partial-record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the USGS Water Science Center at the address given on the back side of the title page of this report.† Includes drainage area for Otter Creek.

Station name	Station number	Drainage area (mi^2)	Period of record
Waccasassa River near Otter Creek, FL	02313500	300†	1944-53
Otter Creek at Otter Creek, FL	02314000		1945-53
Tenmile Creek near Lebanon Station. FL	02314200	26	1963-92
Alligator Creek near Fargo, GA	0231427398		1999-02
Bay Creek near Fargo, GA	0231427399		1999-02
Suwannee River at Sill near Fargo, GA	02314274		1999-02
North Fork Suwannee River at Sill near Fargo, GA	023142741		1999-02
Rocky Creek near Belmont, FL	02314986	50	1976-83
Suwanee River near Benton, FL	02315000	2090	1975-02
Hunter Creek near Belmont, FL	02315005	25.4	1979-88
Deep Creek near Suwannee Valley, FL	02315200	88.6	1976-81
			1990-98
Robinson Creek near Suwannee Valley, FL	02315392	27.4	1976-81
Swift Creek at Facil, FL	02315520	65.3	1976-88
Suwannee River at Suwannee Springs, FL	02315550	2630	1975-96
Alapaha River near Jennings, FL	02317620	1680	1976-84
			1986-87
			2000-01
Santa Fe River near Graham, FL	02320700	94.9	1957-98
Swift Creek near Lake Butler, FL	02321700	46.0	1957-60
Olustee Creek near Providence, FL	02321800	163	1957-60
Pareners Branch near Bland, FL	02321900	4.5	1993-96
Santa Fe River at US Hwy 441 near High Springs, FL	02321975	859	1992-02
Santa Fe River near High Springs, FL	02322000	950	1931-71
Blues Creek near Gainesville, FL	02322016	5.12	1984-94
Cannon Creek near Lake City, FL	02322616	2.33	1992-98
Steinhatchee River at Steinhatchee, FL	02324170	582	1988-91
Fenholloway River at Foley, FL	02324500	120	1946-92
			1993-95
Aucilla River at Lamont, FL	02326500	747	1950-79
			2000-01
Aucilla River near Scanlon, FL	02326512	805	1977-97
Northeast Drainage Ditch at Weems Road, FL	02326845	17.1	1979-83
Munson Slough at Capital Circle, FL	02327017	52.9	1979-83
Little River near Quincy, FL	02329500	237	1950-91
Quincy Creek at S267 at Quincy, FL	02329534	16.8	1974-92
Quincy Creek at Quincy, FL	02329542	21.9	1974-78
Rocky Comfort Creek near Quincy, FL	02329700	9.46	1964-81
New River near Wilma, FL	02330300	81.7	1964-81
North Mosquito Creek at Chattahoochee, FL	02358500	57.9	1936-42

Station name	Station number	Drainage area (mi^2)	Period of record
Apalachicola River near Wewahitchka, FL	02358754	17800	1950-96
Muddy Branch near Marianna, FL	02358784	10.4	1999-04
Econfina Creek near Compass Lake, FL	02359350	40.5	1962-65
Econfina Creek near Fountain, FL	02359450	70.2	1965-78
Bear Creek near Youngstown, FL	02359550	67.2	1962-65
Seven Runs Bay near Redbay, FL	02365800	25.8	1969-70
Holmes Creek at Vernon, FL	02366000	386	1950-81
Magnolia Creek near Freeport, FL	02366900	11.2	1968-83
Alaqua Creek near DeFuniak Springs, FL	02367000	65.6	1951-78
Alaqua Creek near Portland, FL	02367006	83.7	1977-94
Rocky Creek near Portland, FL	02367240	42.4	1980-83
Rocky Creek near Niceville, FL	02367250	67.0	1966-68
Turkey Creek near Niceville, FL	02367305	22.7	1966-68
Turkey Creek at SR123 near Niceville, FL	02367307	30.1	1980-81
Juniper Creek at State Hwy. 85 near Niceville, FL	02367310	27.6	1966-75, 1978-93
East Bay River near Wynnehaven Beach, FL	02367320	62.0	1966-68
Turkey Creek at Government RR near Niceville, FL	02367355	60.8	1977-81
Turtle Creek near Ocean City, FL	02367390	22.3	1977-81
Baggett Creek near Milligan, FL	02368300	7.80	1965-82
Pond Creek near Dorcas, FL	02368800	94.8	1966-68
Titi Creek near Crestview, FL	02368990	62.9	1966-68
Yellow River near Holt, FL	02369500	1210	1933-41
Big Juniper Creek near Munson, FL	02370200	36.0	1958-67
West Fork Big Coldwater at Cobbtown, FL	02370300	39.5	1958-62
Pine Barren Creek near Barth, FL	02376000	75.3	1952-94
Eightmile Creek near West Pensacola, FL	02376140	11.2	1988-91
Brushy Creek near Walnut Hill, FL	02376300	49.0	1958-91
Jacks Branch near Muscogee, FL	02376700	23.2	1958-62
Ward Creek below Mitchell Pond near Metcalf, GA	304308083555200		1999-03

† Includes drainage area for Otter Creek

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State, local, 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 for the 2005 water year for the state of Florida consists of records for continuous or daily discharge for 429 streams, periodic discharge for 9 streams, continuous or daily stage for 218 streams, periodic stage for 5 streams, peak stage and discharge for 28 streams, continuous or daily elevations for 15 lakes, periodic elevations for 15 lakes, continuous ground-water levels for 401 wells, periodic ground-water levels for 1,098 wells, and quality-of-water for 211 surface-water sites and 208 wells.

This volume (Volume 4, Northwest Florida) contains records of continuous or daily discharge for 76 streams, periodic discharge for 2 streams, continuous or daily stage for 14 streams, periodic stage for 0 streams, peak stage and discharge for 20 streams, continuous or daily elevations for 1 lake, periodic elevations for 0 lakes, continuous ground-water levels for 2 wells, periodic ground-water levels for 0 wells, and quality-of-water for 3 surface-water sites and 0 wells.

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 l975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Florida were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from Distribution Branch, Text products Section, U.S. Geological Survey, Branch of Information Services, Open-File Reports Section, Box 25286, Federal Center, Denver, CO 80225-00286.

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-05-4." 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 Office Chief at the address given on the back of the title page or by telephone (850) 942-9500.

COOPERATION

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

Florida Department of Environmental Protection
Florida Department of Transportation
Corps of Engineers, U.S. Army, Mobile District
County of Okaloosa
County of Santa Rosa
County of Walton
Suwannee River Water Management District
Northwest Florida Water Management District
City of Tallahassee

SUMMARY OF HYDROLOGIC CONDITIONS

Precipitation

Precipitation across northwest Florida during the 2005 water year varied. Based on precipitation data at six National Oceanic and Atmospheric Administration (NOAA) stations, (Lake City, Perry, Tallahassee, Panama City, Crestview, and Pensacola), total precipitation for the water year ranged from 54.98 inches (in.) at Perry to 95.03 in. at Pensacola. The cumulative monthly departures for the water year ranged from 2.70 in. below normal at Perry to 30.75 in. above normal at Pensacola.

Precipitation during the fall quarter (October-December), one of the dryer periods, varied at the six locations. The most below normal rainfall was -1.99 in. at Tallahassee, and the most above normal rainfall was 12.73 in. at Crestview. The most near normal rainfall was 0.48 in. above normal at Perry.

For the winter quarter (January-March), normally a wet period, precipitation varied at the six locations. The most below normal rainfall for the quarter was -4.02 in. at Tallahassee, whereas the most above normal rainfall was 3.66 in. at Pensacola. The most near normal rainfall was 0.24 in. above normal at Perry.

Rainfall for the spring quarter (April-June) was reported as well above normal at all six locations, ranging from 3.16 in. above normal at Tallahassee, to 18.80 in. above normal at Pensacola.

During the summer quarter (July-September), normally the wet thunderstorm season, rainfall varied from well below to well above normal. The most below normal rainfall for the quarter was -10.46 in. at Perry, whereas the most above normal rainfall 7.35 in. at Tallahassee. The station at Tallahassee reported 14.33 in. (7.30 in. above normal) during the month of August, making it its third wettest August for its period of record.

Table 1 lists the cumulative rainfall and departure from the 30-year normal (1971-2000) for each of the stations. Values are given in inches.

Table 1: Cumulative rainfall and departure from the 30-year normal (1971-2000)

Station name	October - December		January - March		April - June		July - September		Water year	
	Total rainfall	Departure	Total rainfall	Departure	Total rainfall	Departure	Total rainfall	Departure	Total rainfall	Departure
Lake City	9.73	1.53	13.38	-0.65	21.57	7.80	16.02	-2.58	60.59	6.99
Perry	9.57	0.48	13.27	0.24	20.60	7.93	11.43	-10.46	54.98	-2.70
Tallahassee	9.22	-1.99	12.44	-4.02	18.62	3.16	27.43	7.35	67.71	4.50
Panama City	11.42	-0.67	15.38	-1.29	18.81	5.21	13.81	-8.59	59.42	-5.34
Crestview	23.55	12.73	15.86	-2.60	22.72	6.11	22.41	4.36	84.54	20.60
Pensacola	19.93	7.37	20.08	3.66	33.48	18.80	21.54	0.92	95.03	30.75

Surface Water

Annual mean stream flow across northwest Florida averaged well above normal for the 2005 water year. Table 2 provides data from the representative sites in northwest Florida showing 2004 and 2005 water year mean discharge and percent of mean of the period of record.

Table 2: Relation of period-of-record mean annual discharge to mean discharge for the 2004 and 2005 water years

Station number	Station name	Mean annual discharge		Mean discharge For water year 2004		Mean discharge For water year 2005	
	Representative streams in northwest Florida	Period of record	Value (cubic feet per second)	Value (cubic feet per second)	Percent of mean	Value (cubic feet per second)	Percent of mean
02320500	Suwannee River at Branford, FL	1931-2005	6,971	5,243	76	14,010	201
02321500	Santa Fe River at Worthington Springs, FL	1932-2005	422	333	79	560	133
02324000	Steinhatchee River near Cross City, FL	1950-2005	314	234	75	501	160
02329000	Ochlockonee River near Havana, FL	1926-2005	1,052	760	73	1,931	184
02359000	Chipola River near Altha, FL	1913-2005	1,493	1,237	83	2,106	141
02369000	Shoal River near Crestview, FL	1938-2005	1,121	1,122	101	1,785	159

Table 2: Relation of period-of-record mean annual discharge to mean discharge for the 2004 and 2005 water years

Station number	Station name	Mean annual discharge		Mean discharge For water year 2004		Mean discharge For water year 2005	
	Representative streams in northwest Florida	Period of record	Value (cubic feet per second)	Value (cubic feet per second)	Percent of mean	Value (cubic feet per second)	Percent of mean
02375500	Escambia River near Century, FL	1934-2005	6,263	5,837	93	8966	142

Discharge hydrographs for seven representative streams in northwest Florida are shown in figures 4 to 10. The upper graph (A) shows the 2005 monthly mean discharge compared to the maximum, minimum, and mean monthly mean discharge for the period of record at that site. The lower graph (B) shows the monthly mean discharge for the 1996-2005 period.

Ground Water

Data are collected from two ground-water wells equipped with data recorders that measure 60-minute interval water elevations. The daily maximum water-level elevations presented in this report are derived from these measurements. Table 3 provides the instantaneous low and peak, and date and time of the peaks for the water year.

Table 3: Minimum and maximum instantaneous ground-water elevation conditions at two wells in northwest Florida

Station number	Station name	2005 Instanteous low elevation (feet above NGVD 1929)	Date and time of low	2005 Instanteous peak elevation (feet above NGVD 1929)	Date and time of peak
300740084293001	USGS Observation Well near Crawfordville, FL	31.28	09/21/2005 at 01:00	35.05	07/13/2005 at 00:00
303025085350501	USGS Observation Well near Wausau, FL (422A)	58.67	03/15/2005 at 11:00	62.52	08/31/2005 at 16:00

A hydrograph for the USGS well near Wausau (303025085350501) is shown in figure 10. The upper graph (A) shows the water year 2005 monthly maximum water level compared to the maximum, minimum, and mean monthly maximum water level for the 1963-2005 period. The lower graph (B) shows the monthly maximum water level for the 1998-2005 period.

Lake Elevations

Data are collected from one lake (Lake Talquin) equipped with a data recorder that measures 15-minute interval water elevations. The daily mean water-level elevations presented in this report are derived from these measurements. Lake Talquin's water elevations are controlled by C.H. Corn Hydroelectric Dam located on the Ochlockonee River. The Hydroelectric Dam also regulates the flow into the Ochlockonee River near Bloxham. Table 4 provides the instantaneous low and peak, and date and time of the peaks for the water year.

Table 4: Minimum and maximum instantaneous lake elevations at Lake Talquin in northwest Florida

Station number	Station name	2005 Instanteous low elevation (feet above NGVD 1929)	Date and time of low	2005 Instanteous peak elevation (feet above NGVD 1929)	Date and time of peak
02329900	Lake Talquin near Bloxham, FL	67.40	04/01/2005 at 00:45	68.89	07/10/2005 at 10:45

Water Quality

Water-quality data collected during the water year did not provide enough information for general analysis of conditions in northwest Florida.

A Synopsis of Hurricane Dennis

Hurricane Dennis made landfall July 10, 2005, on Santa Rosa Island, just west of Navarre Beach in the western Florida Pandhandle, with maximum sustained winds of 121 miles per hour and barometric pressure of 946 millibars. Storm surge in the St. Marks, Wakulla (figure 2), and Aucilla River Basins were higher than exptected. The town of St. Marks became inundated with water because of the surge. Although the storm offically made landfall in the western panhandle, there was no significant surge reported at the USGS gages in that area.

Rainfall associated with Hurricane Dennis varied across the panhandle ranging from 2.07 at Apalachicola, to 6.61 inches at Tallahassee. Such variation in rainfall can be attributed to the way in which Hurricane Dennis made landfall. Because the storm was moving in a northwestward direction, the squalls were moving from southeast to northwest causing consistantly heavy rainfall in certain areas, whereas between the squalls, significantly less rainfall occurred. Tallahassee was in one of these squall lines.

Hurricane Dennis caused a higher than expected storm surge in the St. Marks, Aucilla, and Wakulla River basins, and this storm surge, in combination with runoff from an average of 6 to 8 inches of rain in the vicinity of Tallahassee and the Big Bend area, created moderate flooding. Flows for most streams were in the 2- to 5-year recurrence-interval range throughout the central panhandle. At the St. Marks River near Newport, 14.4 mi upstream from the mouth near the Gulf of Mexico, flows were in the 2-year recurrence-interval range. Near Pensacola, Bayou Marcus Creek rose to levels just shy of those associated with Hurricane Ivan in September 2005 (6.82 ft and 1,500 cubic feet per second (cfs), a record high for the 7 years that gage has been in operation). However, the Ochlockonee River near Havana peaked on July 14 at 17,000 cfs, a flow with a recurrence interval of about 8 years over the period of record, which began in 1926. USGS field crews made a discharge measurement at Ochlockonee River near Concord on July 14, and measured the highest flow on record for this station (gage height 41.10 ft; discharge 21,300 cfs).

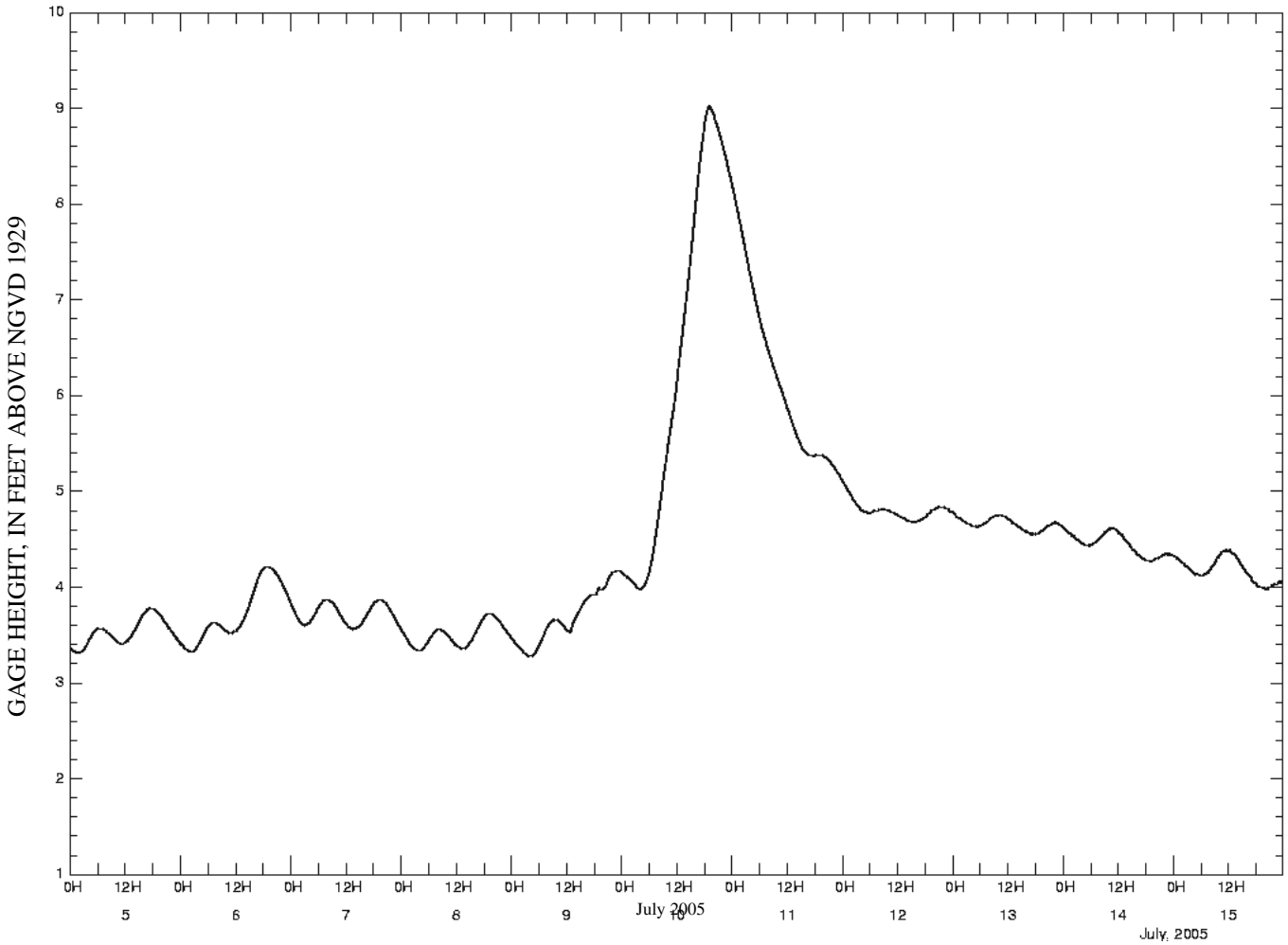


Figure 2. Gage height hydrograph of Wakulla River near Crawfordville (02327022) showing the storm surge associated with Hurricane Dennis.

At the gage at Wakulla River near Crawfordville (figure 2, above), the associated storm surge and increase in stage is a representative example of what the Big Bend area underwent.

Coastal basins in the Big Bend area showed significant surge, whereas those near the hurricane's landfall did not, probably because of (1) the angle at which Hurricane Dennis approached in comparison with that of Ivan, (2) the relative shallowness of Apalachee Bay, and (3) the occurrence of hurricane landfall near high tide in Apalachee Bay. Hurricane Ivan came straight up from the south, and so the storm had a chance to push water well ahead of it, whereas Dennis came in at an angle from the southeast and, as is often the case with the east side of the storm being more severe, affected the Big Bend area more severely than areas farther west. Hurricane landfall occurred between Santa Rosa Beach and Navarre Beach an hour and a half before high tide in Apalachee Bay.

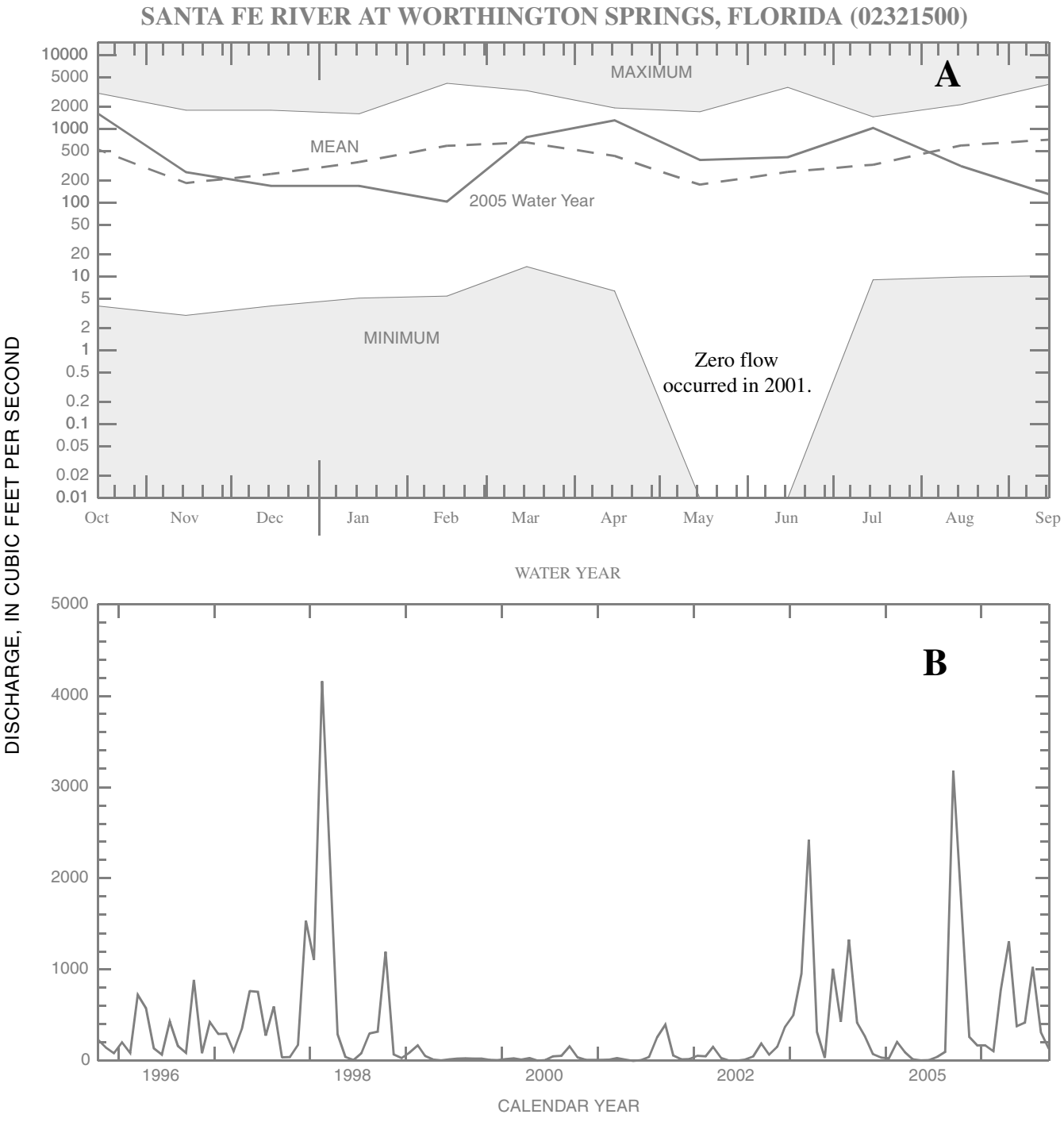


Figure 3. Santa Fe River at Worthington Springs (A) 2005 monthly mean discharge compared to the maximum, minimum, and mean monthly mean discharge for the period 1932-2005, and (B) the monthly mean discharge for the period 1996-2005.

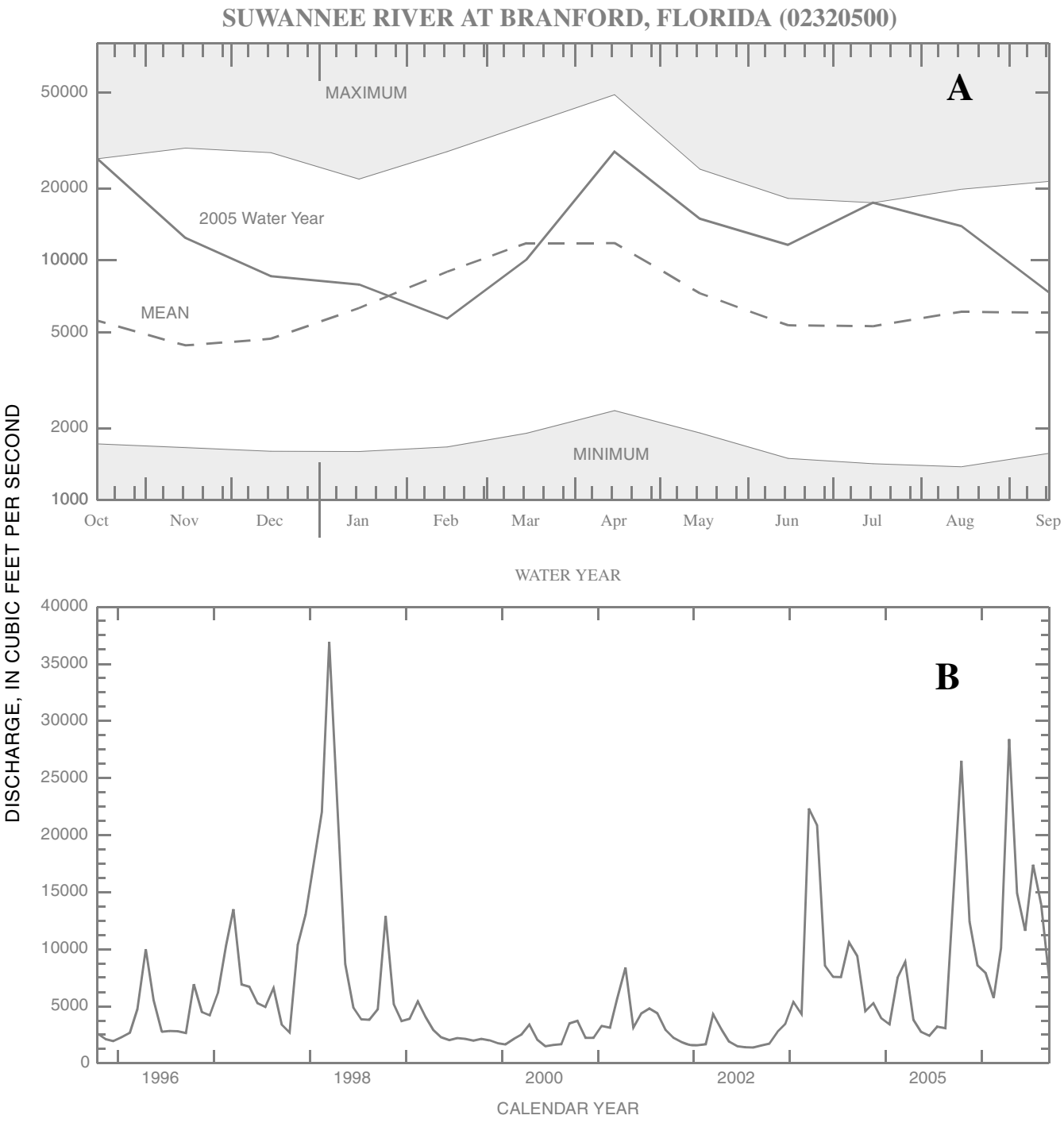


Figure 4. Suwannee River at Branford (A) 2005 monthly mean discharge compared to the maximum, minimum, and mean monthly mean discharge for the period 1931-2005, and (B) the monthly mean discharge for the period 1996-2005.

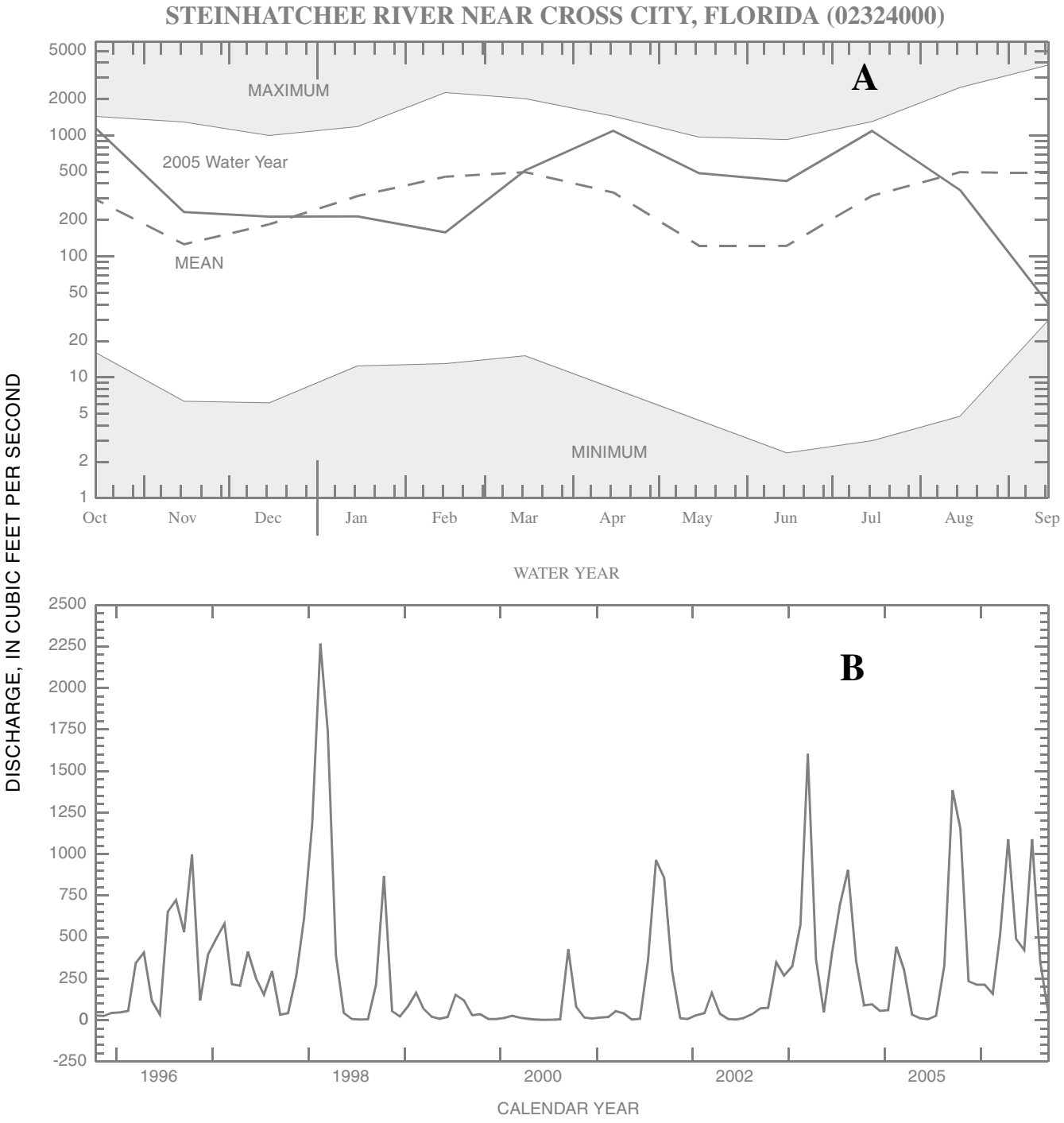


Figure 5. Steinhatchee River near Cross City (A) 2005 monthly mean discharge compared to the maximum, minimum, and mean monthly mean discharge for the period 1950-2005, and (B) the monthly mean discharge for the period 1996-2005.

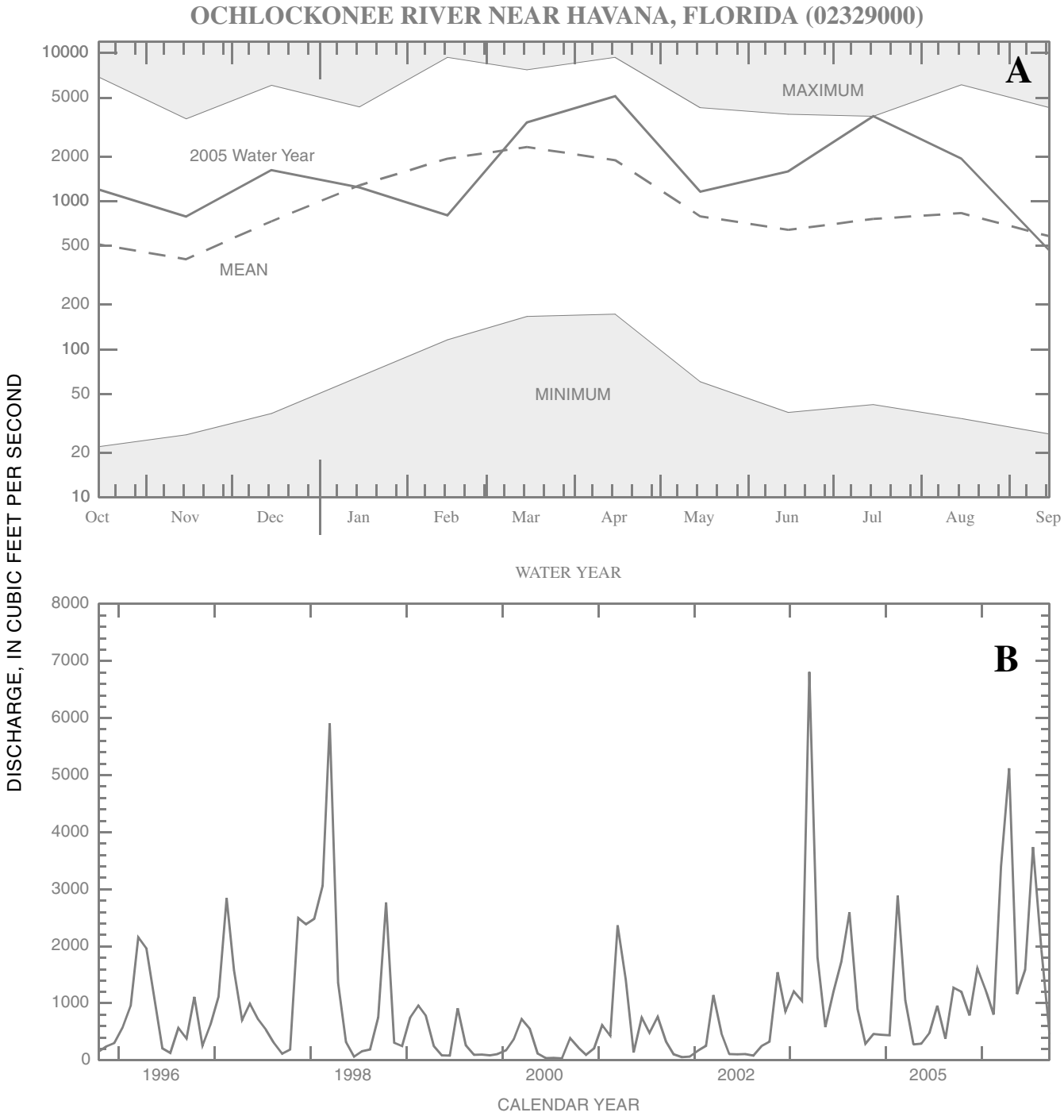


Figure 6. Ochlockonee River near Havana (A) 2005 monthly mean discharge compared to the maximum, minimum, and mean monthly mean discharge for the period 1926-2005, and (B) the monthly mean discharge for the period 1996-2005.

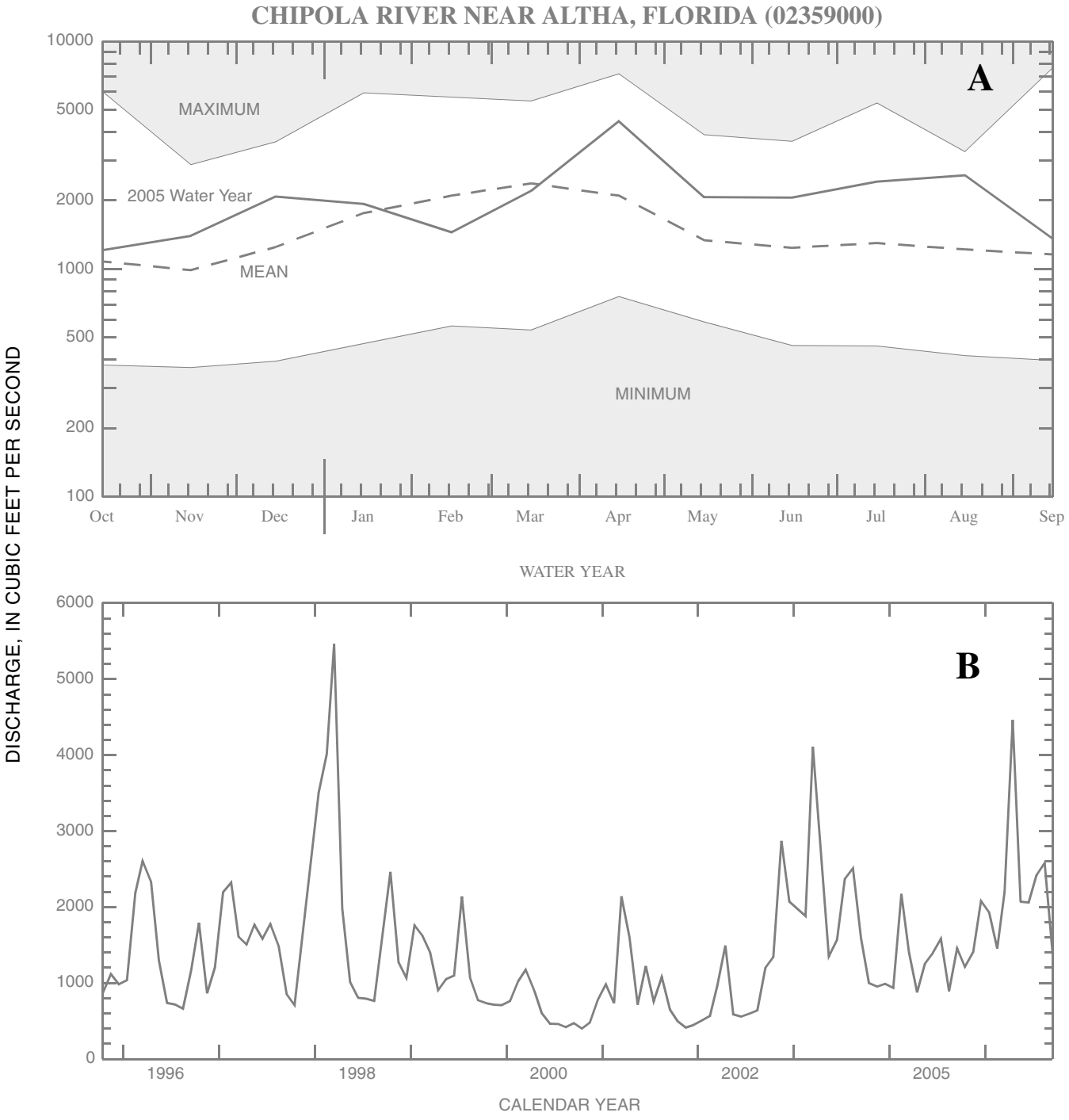


Figure 7. Chipola River near Altha (A) 2005 monthly mean discharge compared to the maximum, minimum, and mean monthly mean discharge for the period 1913-2005, and (B) the monthly mean discharge for the period 1996-2005.

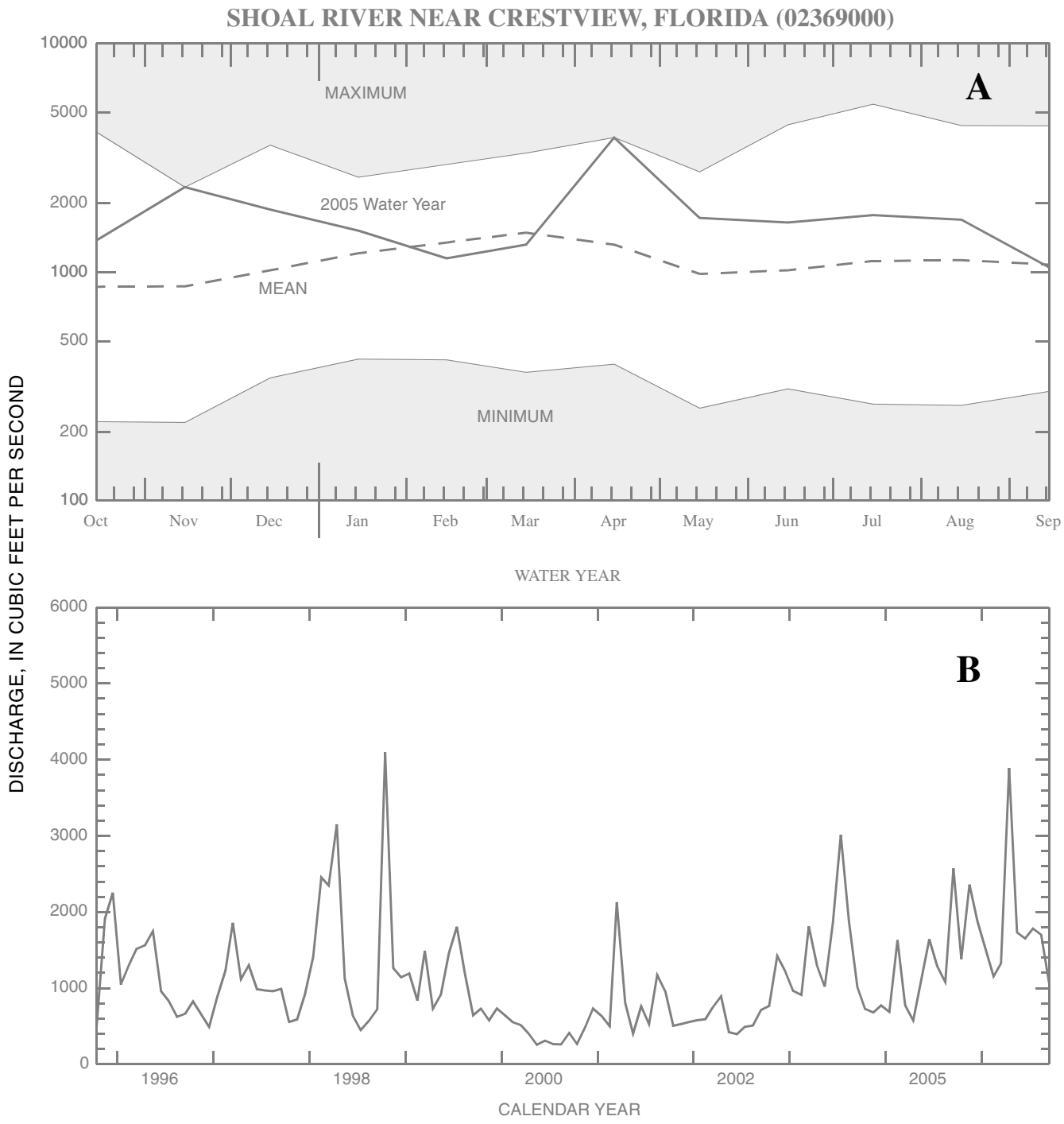


Figure 8. Shoal River near Crestview (A) 2005 monthly mean discharge compared to the maximum, minimum, and mean monthly mean discharge for the period 1938-2005, and (B) the monthly mean discharge for the period 1996-2005.

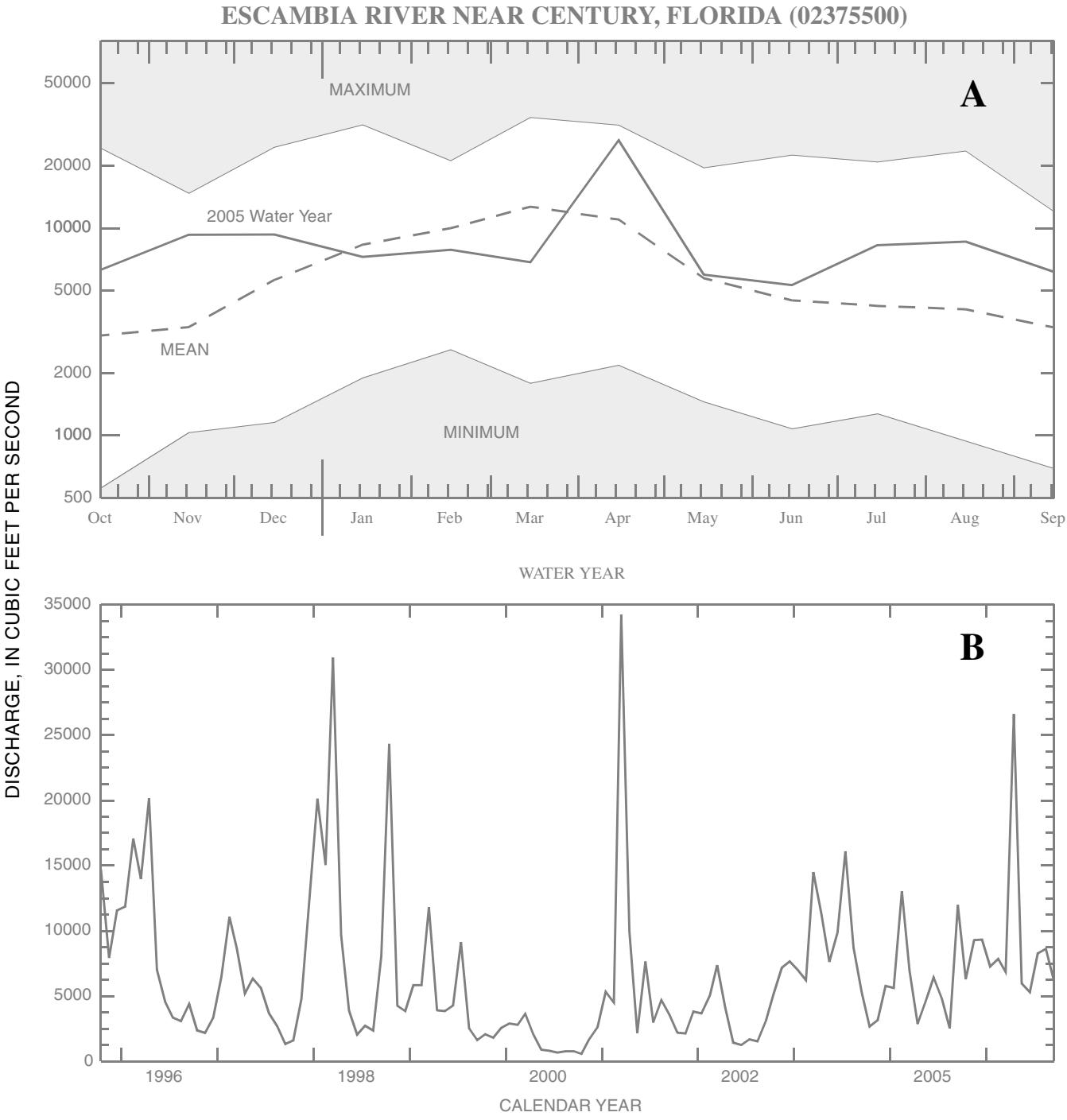


Figure 9. Escambia River near Century (A) 2005 monthly mean discharge compared to the maximum, minimum, and mean monthly mean discharge for the period 1934-2005, and (B) the monthly mean discharge for the period 1996-2005.

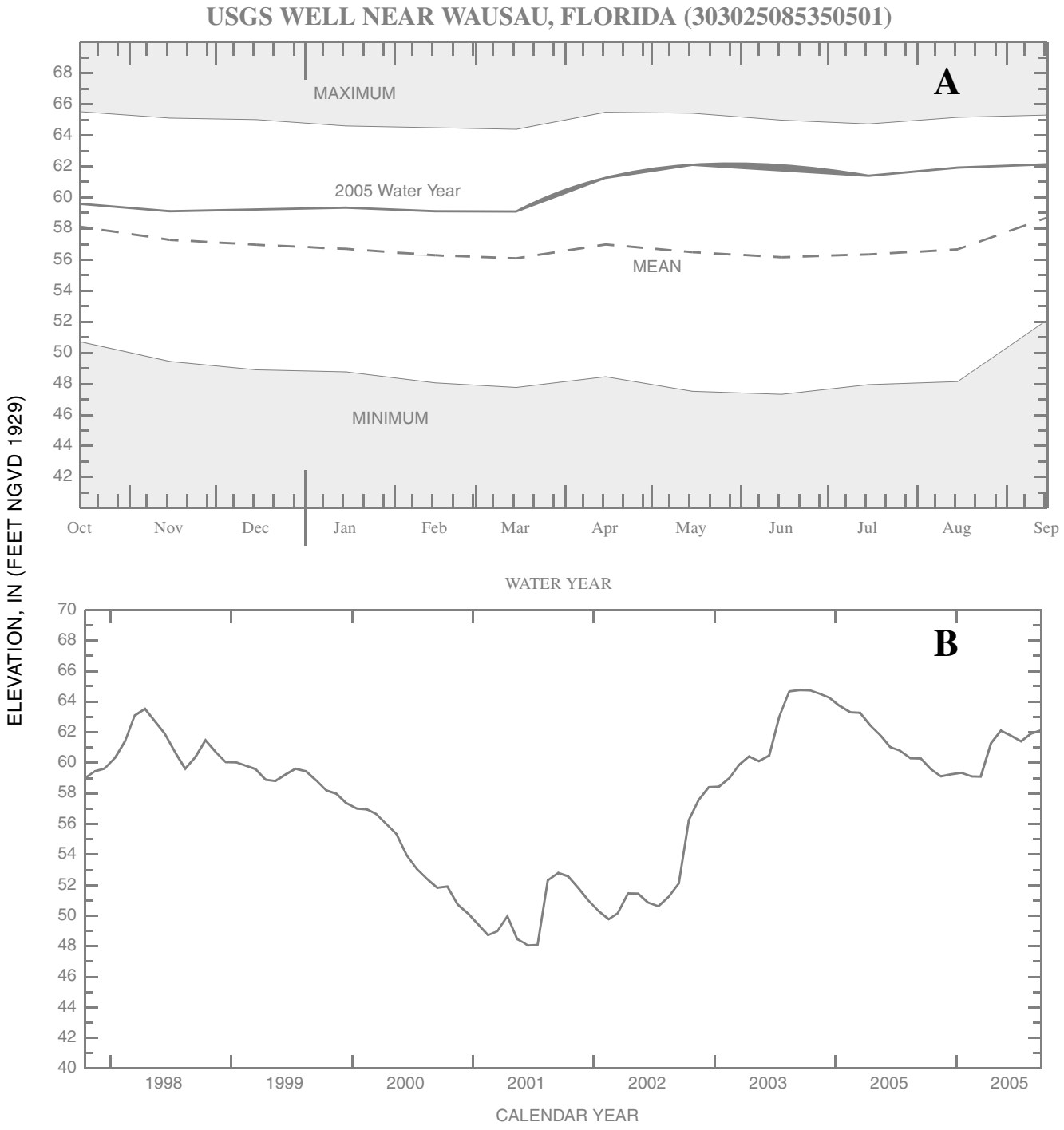


Figure 10. USGS Well near Wausau (A) Monthly maximum water level for the 2005 water year compared to maximum, minimum, and mean monthly maximum water levels for the period 1963-2005 and (B) the monthly maximum water level for the period 1998-2005.

DOWNSTREAM ORDER AND STATION NUMBER

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

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

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as "01," "02," and so forth, would be assigned as one would for wells (see fig. 11). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

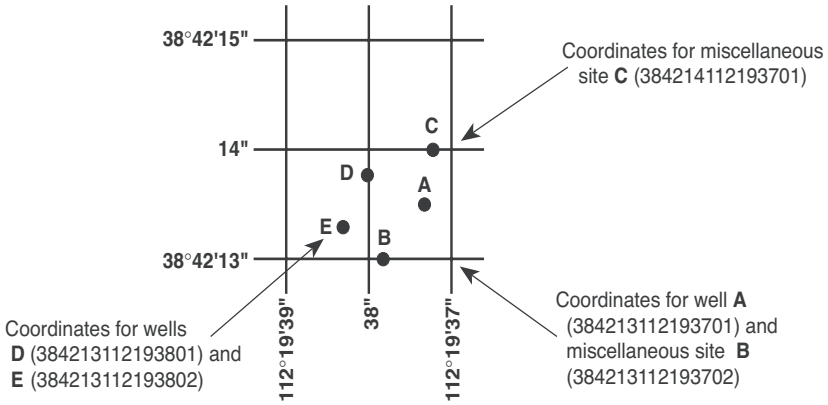


Figure 11. System for numbering wells and miscellaneous sites (latitude and longitude).

SPECIAL NETWORKS AND PROGRAMS

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

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2005, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of five 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 (NAWQA) Program; (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 may be accessed from *http://water.usgs.gov/nasqan/*.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that 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 this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from *http://bqs.usgs.gov/acidrain/*.

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

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a

wide range of spatial and temporal scales will provide information for water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities for collaboration among the agencies. Additional information about the NAWQA Program may be accessed from *http://water.usgs.gov/nawqa/*.

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

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Data Collection and Computation

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

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors that are based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

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

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

At some stations, 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.

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

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

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

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

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

Station Manuscript

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

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

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

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

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

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

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

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

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

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

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

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

Peak Discharge Greater than Base Discharge

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

Data Table of Daily Mean Values

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

Statistics of Monthly Mean Data

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

Summary Statistics

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns with the first column containing the line headings of the statistics being

reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS __-__, will consist of all of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the ANNUAL 7-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Identifying Estimated Daily Discharge

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

Accuracy of Field Data and Computed Results

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

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

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

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

Other Data Records Available

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

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

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

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

Data Presentation

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

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

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

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

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

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

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

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

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

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

Water Analysis

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

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

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

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

SURFACE-WATER-QUALITY RECORDS

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

Classification of Records

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

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

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded

before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating the accuracy of 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 field parameter	Ratings of accuracy (Based on combined fouling and calibration drift corrections applied to the record)			
	Excellent	Good	Fair	Poor
Water temperature	≤± 0.2 °C	> ± 0.2 – 0.5 °C	> ± 0.5 – 0.8 °C	> ± 0.8 °C
Specific conductance	≤± 3%	> ± 3 – 10%	> ± 10 – 15%	> ± 15%
Dissolved oxygen	≤± 0.3 mg/L or ≤± 5%, whichever is greater	> ± 0.3 – 0.5 mg/L or > ± 5 – 10%, whichever is greater	> ± 0.5 – 0.8 mg/L or > ± 10 – 15%, whichever is greater	> ± 0.8 mg/L or > ± 15%, whichever is greater
pH	≤± 0.2 units	> ± 0.2 – 0.5 units	> ± 0.5 – 0.8 units	> ± 0.8 units
Turbidity	≤±0.5 turbidity units or ≤±5%, whichever is greater	> ± 0.5 – 1.0 turbidity units or > ±5 – 10%, whichever is greater	> ± 1.0 – 1.5 turbidity units or > ±10 – 15%, whichever is greater	> ± 1.5 turbidity units or > ±15%, whichever is greater

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.

Onsite Measurements and Sample Collection

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

Water Temperature

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

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

Sediment

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

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration are computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

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

Laboratory Measurements

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

Data Presentation

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

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

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

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

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

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

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

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

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

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

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No

descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

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

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

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

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

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

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

Blank Samples

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

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

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

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

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

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

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

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

Reference Samples

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

Replicate Samples

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

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

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

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

Spike Samples

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

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs. See NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES in this report for a detailed explanation.

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the Onsite Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth of water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown in figures 14 and 15; each well is identified on the map by its local or county well number.

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and changes since construction.

INSTRUMENTATION.—This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29); it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may affect the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words "to current year" if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

GROUND-WATER-QUALITY DATA

Data Collection and Computation

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide.

Most methods for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4; and Book 9, Chapters A1-A6. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS Water Science Center (see address shown on back of title page in this report).

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed onsite. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2 and Book 5, Chapters A1, A3, and A4, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

ACCESS TO USGS WATER DATA

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

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

DEFINITION OF TERMS

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

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.

Adjusted discharge is discharge data that have been mathematically adjusted (for example, to remove the effects of a daily tide cycle or reservoir storage).

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

Artificial substrate is a device that purposely is 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 a 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.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Bedload is material in transport that primarily is supported by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to the top of the bedload sampler nozzle (an elevation ranging from 0.25 to 0.5 foot). These particles 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")

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 also is called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton and periphyton organisms with a blue pigment in addition to a green pigment called chlorophyll. Blue-green algae can cause nuisance water-quality conditions in lakes and slow-flowing rivers; however, they are found commonly in streams throughout the year. The abundance of blue-green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of blue-green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton"and "Periphyton")

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 the lithology and porosity of the rock.

Canadian Geodetic Vertical Datum 1928 is a geodetic datum derived from a general adjustment of Canada's first order level network in 1928.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are used frequently in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements 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:

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

pi (π) is the ratio of the circumference to the diameter of a circle; pi = 3.14159….

From cell volume, total algal biomass expressed as biovolume (μm^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.

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 generally are reported as cells or units per milliliter (mL) or liter (L).

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 warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and the 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, [$(ft^3/s)/d$]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables numerically are 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, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted mean 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 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 usually are 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 Universal Transverse Mercator (UTM) coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms *(Bacillariophyta)* are unicellular or colonial algae with a siliceous cell wall. The abundance of diatoms in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of diatoms in periphyton samples is given in cells per square centimeter

(cells/cm^2) or biovolume per square centimeter (µm^3/cm^2). (See also "Phytoplankton" and "Periphyton")

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, and so forth, 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 dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4917 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) 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 commonly are 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 generally are 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) value of a concentration 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 identified qualitatively 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 (<). For bacteriological data, concentrations are reported as estimated when results are based on non-ideal colony counts.

Euglenoids (*Euglenophyta*) are a group of algae that usually are 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")

Filtered pertains to constituents in a water sample passed through a filter of specified pore diameter, most commonly 0.45 micrometer or less for inorganic analytes and 0.7 micrometer for organic analytes.

Filtered, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that has passed through a filter has been extracted. Complete recovery is not achieved by the extraction procedure and thus the analytical determination represents something less than 95 percent of the total constituent concentration in the sample. To achieve comparability of analytical data, equivalent extraction procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Fire algae (*Pyrrhophyta*) 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 exceeded. For example, the 90th percentile of river flow is the streamflow exceeded 90 percent of the time in the period of interest.

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 is not an actual physical object, the datum is usually 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 *(Chlorophyta)* are unicellular or colonial algae with chlorophyll pigments similar to those in terrestrial green plants. Some forms of green algae produce mats or floating "moss" in lakes. The abundance of green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton" and "Periphyton")

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 typically are 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 ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA Web site: *http://www.csc.noaa.gov/text/glossary.html* (see "High water")

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:

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

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.), in reference to streamflow, 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 distributed uniformly on it. (See also "Annual runoff")

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

International Boundary Commission Survey Datum refers to a geodetic datum established at numerous monuments along the United States-Canada boundary by the International Boundary Commission.

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) generally is 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. The LRL replaces the term 'non-detection value' (NDV).

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 Website: *http://www.csc.noaa.gov/text/glossary.html* (see "Low water")

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.

Megahertz is a unit of frequency. One megahertz equals one million cycles per second.

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 code is a one-character code that identifies the analytical or field method used to determine a value stored in the National Water Information System (NWIS).

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.

Method of Cubatures is a method of computing discharge in tidal estuaries based on the conservation of mass equation.

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

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

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

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

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

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in 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 29) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It formerly was 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.

Nonfilterable refers to the portion of the total residue retained by a filter.

North American Datum of 1927 (NAD 27) is the horizontal control datum for the United States that was defined by a location and azimuth on the Clarke spheroid of 1866.

North American Datum of 1983 (NAD 83) is the horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

North American Vertical Datum of 1988 (NAVD 88) 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 (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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

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 uses 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 usually are 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 photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. 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 [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/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 is the amount of a given constituent that is in solution after a representative water sample has been extracted or digested. Complete recovery is not achieved by the extraction or digestion and thus the determination represents something less than 95 percent of the constituent present in the sample. To achieve comparability of ana-

lytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different 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")

Salinity is the total quantity of dissolved salts, measured by weight in parts per thousand. Values in this report are calculated from specific conductance and temperature. Seawater has an average salinity of about 35 parts per thousand (for additional information, refer to: Miller, R.L., Bradford, W.L., and Peters, N.E., 1988, Specific conductance: theoretical considerations and application to analytical quality control: U.S. Geological Survey Water-Supply Paper 2311, 16 p.)

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 (<2 mm, 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.

Surrogate is an analyte that behaves similarly to a target analyte, but that is highly unlikely to occur in a sample. A surrogate is added to a sample in known amounts before extraction and is measured with the same laboratory procedures used to measure the target analyte. Its purpose is to monitor method performance for an individual sample.

Suspended is the amount (concentration) of undissolved material in a water-sediment mixture. Most commonly refers to that material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer filter has been extracted or digested. Complete recovery is not achieved by the extraction or digestion procedures and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also "Suspended")

Suspended sediment is sediment carried in suspension by the turbulent components of the fluid or by the Brownian movement (a law of physics). (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 (ft^3/s) x 0.0027. (See also "Sediment," "Sus-

pended 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 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.

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")

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

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

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

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 ton 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 an expression of the optical properties of a liquid that causes light rays to be scattered and absorbed rather than transmitted in straight lines through water. Turbidity, which can make water appear cloudy or muddy, is caused by the presence of suspended and dissolved matter, such as clay, silt, finely divided organic matter, plankton and other microscopic organisms, organic acids, and dyes (ASTM International, 2003, D1889–00 Standard test method for turbidity of water, *in* ASTM International, Annual Book of ASTM Standards, Water and Environmental Technology, v. 11.01: West Conshohocken, Pennsylvania, 6 p.). The color of water, whether resulting from dissolved compounds or suspended particles, can affect a turbidity measurement. To ensure that USGS turbidity data can be understood and interpreted properly within the context of the instrument used and site conditions encountered, data from each instrument type are stored and reported in the National Water Information System (NWIS) using parameter codes and measurement reporting units that are specific to the instrument type, with specific instruments designated by the method code. The respective measurement units, many of which also are in use internationally, fall into two categories: (1) the designations NTU, NTRU, BU, AU, and NTMU signify the use of a broad spectrum incident light in the wavelength range of 400-680 nanometers (nm), but having different light detection configurations; (2) The designations FNU, FNRU, FBU, FAU, and FNMU generally signify an incident light in the range between 780-900 nm, also with varying light detection configurations. These reporting units are equivalent when measuring a calibration solution (for example, formazin or polymer beads), but their respective instruments may not produce equivalent results for environmental samples. Specific reporting units are as follows:

NTU (Nephelometric Turbidity Units): white or broadband [400-680 nm] light source, 90 degree detection angle, one detector.

NTRU (Nephelometric Turbidity Ratio Units): white or broadband [400-680 nm] light source, 90 degree detection angle, multiple detectors with ratio compensation.

BU (Backscatter Units): white or broadband [400-680 nm] light source, 30 ± 15 degree detection angle (backscatter).

AU (Attenuation Units): white or broadband [400-680 nm] light source, 180 degree detection angle (attenuation).

NTMU (Nephelometric Turbidity Multibeam Units): white or broadband [400-680 nm] light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

FNU (Formazin Nephelometric Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, one detector.

FNRU (Formazin Nephelometric Ratio Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, multiple detectors, ratio compensation.

FBU (Formazin Backscatter Units): near infrared [780-900 nm] or monochrome light source, 30±15 degree detection angle.

FAU (Formazin Attenuation Units): near infrared [780-900 nm] light source, 180 degree detection angle.

FNMU (Formazin Nephelometric Multibeam Units): near infrared [780-900 nm] or monochrome light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

For more information please see http://water.usgs.gov/owq/FieldManual/Chapter6/6.7_contents.html.

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 path length 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")

Unfiltered pertains to the constituents in an unfiltered, representative water-suspended sediment sample.

Unfiltered, recoverable is the amount of a given constituent in a representative water-suspended sediment sample that has been extracted or digested. Complete recovery is not achieved by the extraction or digestion treatment and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

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 often are 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."

Watershed (See "Drainage basin")

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")

STAGE, DISCHARGE, AND WATER QUALITY OF STREAMS

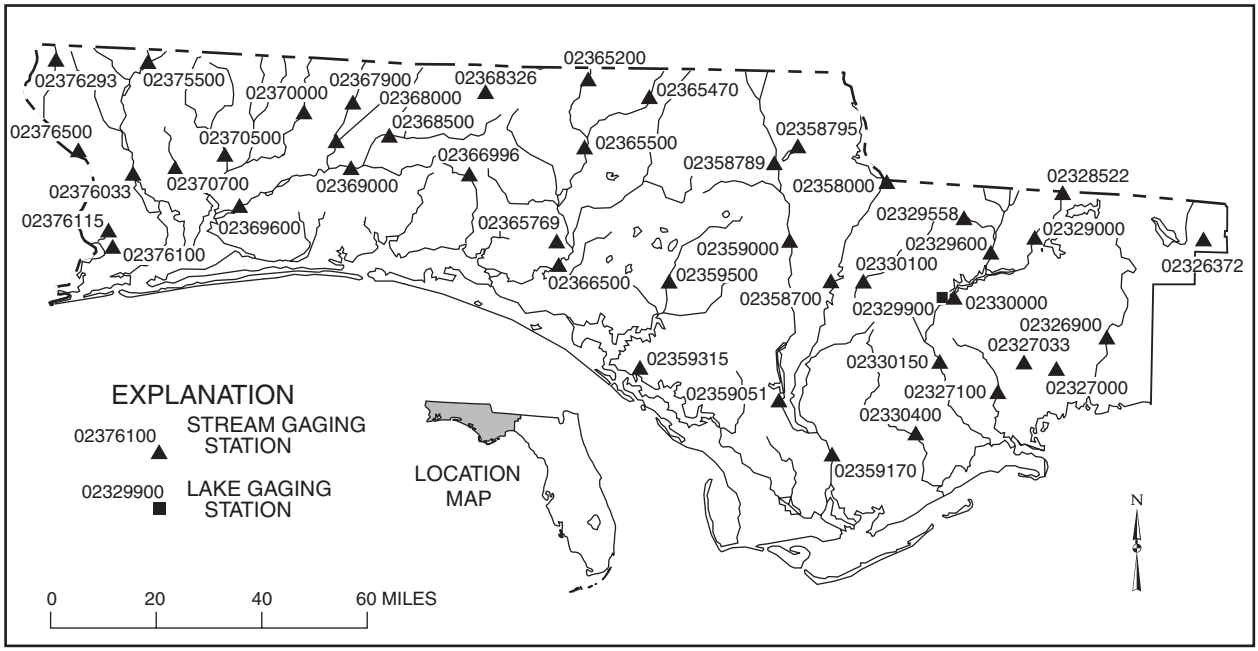


Figure 12. Location of stream gaging and lake gaging stations in the Northwest Florida Water Management District.

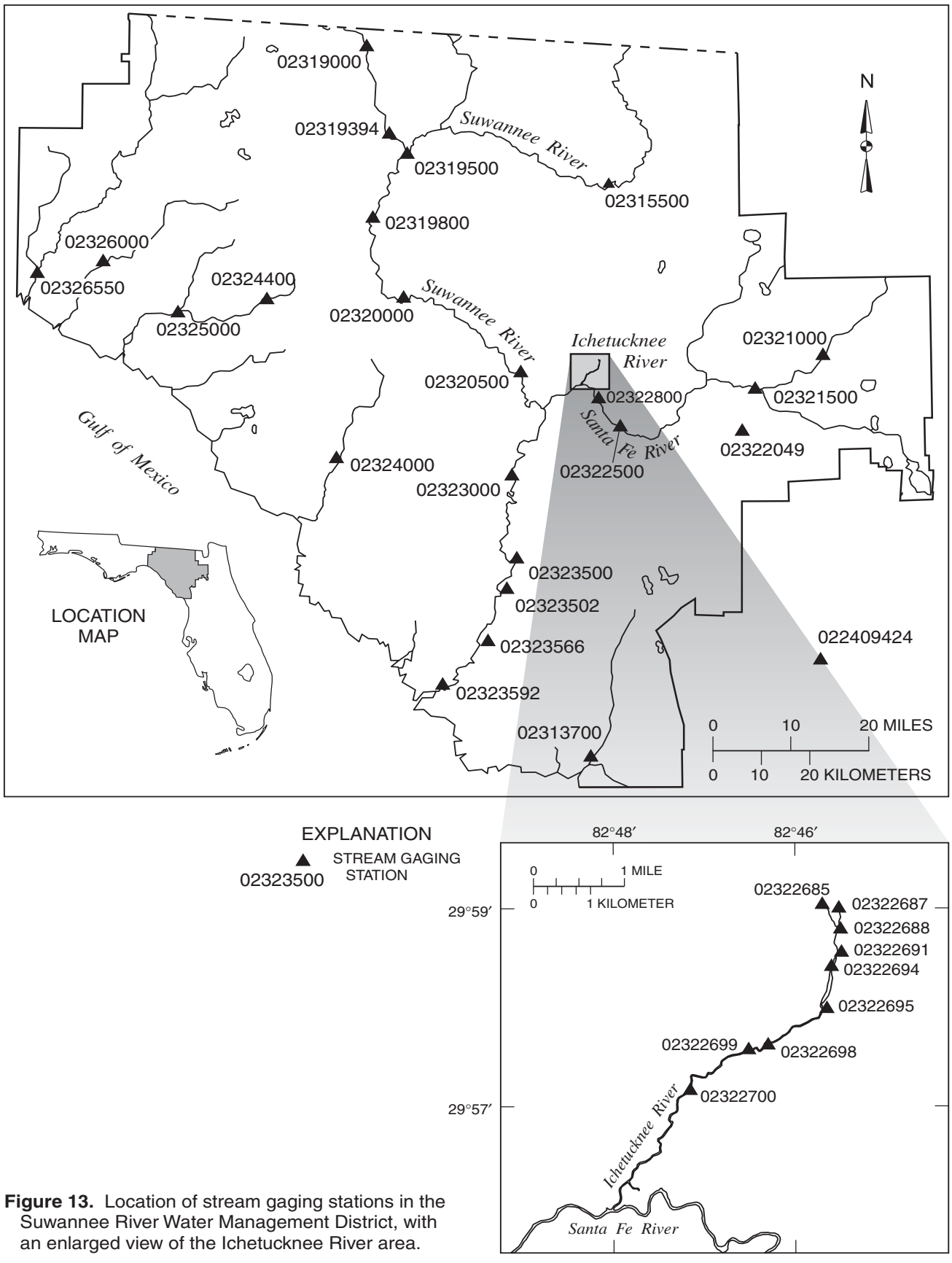


Figure 13. Location of stream gaging stations in the Suwannee River Water Management District, with an enlarged view of the Ichetucknee River area.

022409424 MOORES POND TRIBUTARY NEAR MICANOPY, FL

LOCATION.--Lat 29°28'01", long 82°18'52", in NE 1/4 sec. 9, T.12S., R.20E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 329, 3.1 mi southwest of Micanopy, and 4.2 mi north of Flemington.

DRAINAGE AREA.--0.41 mi^2.

PERIOD OF RECORD.--October 1995 to November 1996 (fragmentary), December 1996 to April 2002, May to July 2002 (fragmentary), August 2002 to September 2004, October 2004 to September 2005 (fragmentary).

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--Records poor. Continuous discharge data for water years 1996-2004 are published in Appendix at end of this report.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft^3/s, June 19, gage height, 5.52 ft from crest-stage gage mark; minimum discharge .00 ft^3/s, many days of year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.01	---	---	---	---	---	---	---	0.00	---	---	---
2	0.00	---	---	---	---	---	---	---	0.00	---	---	---
3	0.00	---	---	---	---	---	---	---	0.00	---	---	---
4	0.00	---	---	---	---	---	---	---	0.00	---	---	---
5	0.00	---	---	---	---	---	---	---	0.00	---	---	---
6	0.66	---	---	---	---	---	---	---	0.00	---	---	---
7	---	---	---	---	---	---	---	---	0.00	---	---	---
8	---	---	---	---	---	---	---	---	0.00	---	---	---
9	---	---	---	---	---	0.02	---	---	0.00	---	---	---
10	---	---	---	---	---	---	---	---	0.00	---	---	---
11	---	---	---	---	---	---	---	---	0.00	---	---	---
12	---	---	---	---	---	---	---	---	0.01	---	---	---
13	0.02	---	---	---	---	---	---	---	0.00	---	---	---
14	---	---	---	---	---	---	---	---	0.00	---	---	---
15	---	---	---	---	---	---	---	---	0.00	---	---	---
16	---	---	---	---	---	---	---	---	0.01	---	---	0.00
17	---	---	---	---	---	---	---	---	0.00	---	---	0.00
18	---	---	---	---	---	---	---	---	0.00	---	---	0.00
19	---	---	---	---	---	---	---	0.00	0.02	---	---	0.00
20	---	---	---	---	---	---	---	0.00	---	---	---	0.00
21	---	---	---	---	---	---	---	0.00	---	---	---	0.00
22	---	---	---	---	---	---	0.00	0.00	---	---	---	0.00
23	---	---	---	---	---	---	---	0.00	---	---	---	0.00
24	---	---	---	---	---	---	---	0.00	---	---	---	0.00
25	---	---	---	---	---	---	---	0.00	---	---	---	0.00
26	---	---	---	---	---	---	---	0.00	---	---	---	0.00
27	---	---	---	---	---	---	---	0.00	---	---	---	0.00
28	---	---	---	0.00	---	---	---	0.00	---	---	---	0.00
29	---	---	---	---	---	---	---	0.00	---	---	---	0.00
30	---	---	---	---	---	---	---	0.00	---	---	---	0.00
31	---	---	---	---	---	---	---	0.00	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	0.00	0.03	0.03	0.01	0.03	0.07	0.00	0.01	0.01	0.01	0.01	0.07
MAX	0.01	0.17	0.18	0.03	0.23	0.55	0.02	0.03	0.02	0.05	0.01	0.35
(WY)	(1998)	(1998)	(1998)	(1996)	(1998)	(2004)	(1996)	(1997)	(2003)	(1996)	(1998)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2000)	(1999)	(1999)	(2001)	(1997)	(1999)	(1998)	(1998)	(1998)	(2000)	(2001)	(2003)

SUMMARY STATISTICS	WATER YEARS 1996 - 2005	
ANNUAL MEAN	0.03	
HIGHEST ANNUAL MEAN	0.08	2004
LOWEST ANNUAL MEAN	0.00	2001
HIGHEST DAILY MEAN	17	Mar 23, 2004
LOWEST DAILY MEAN	0.00	Oct 18, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 18, 1995
MAXIMUM PEAK FLOW	67	Feb 1, 2004
MAXIMUM PEAK STAGE	7.29	Feb 1, 2004
INSTANTANEOUS LOW FLOW	0.00	Oct 17, 1995
10 PERCENT EXCEEDS	0.00	
50 PERCENT EXCEEDS	0.00	
90 PERCENT EXCEEDS	0.00	

02313700 WACCASASSA RIVER NEAR GULF HAMMOCK, FL

LOCATION.--Lat 29°12'14", long 82°46'09" in SW 1/4 sec. 2, T. 15 S., R.15 E., Levy County, Hydrologic Unit 03110101, near left bank at abandoned railroad grade, 0.5 mi upstream from Otter Creek, 3.6 mi upstream from mouth, and 4 mi southwest of Gulf Hammock.

DRAINAGE AREA.--480 mi^2, approximately, including that of Otter Creek.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--March 1963 to September 1978, November 1980 to September 1984 (fragmentary), October 1984 to September 1992, October 1998 to September 2002, October 2002 to September 2003 (framentary), October 2003 to current year.

REVISED RECORDS.--WSP 2105: 1969. WRD FL-72-1: Drainage area. WRD FL-04-4:2003.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is 10.51 ft below National Geodetic Vertical Datum of 1929. Prior to Nov. 24, 1980, water-stage and deflection-meter recorders at same site at datum 10.00 ft higher.

REMARKS.--No estimated daily discharges. Records poor. Flow affected by tide. Discharge computed from continuous velocity record obtained from water-current meter. Records include flow of Otter Creek. Above bankfull stage, discharge measurements are made along abandoned railroad fill and include all flow from about 1.5 mi northwest to 0.8 mi northeast of gaging station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,450	313	301	216	145	199	212	330	-60	549	173	1,000
2	2,140	364	261	214	182	195	933	175	100	786	185	900
3	1,820	366	280	212	40	155	803	183	102	784	122	805
4	1,590	304	260	189	256	161	763	243	132	764	122	609
5	1,410	462	222	147	116	27	677	336	401	846	103	515
6	1,270	316	147	87	86	92	529	577	125	495	201	405
7	1,180	225	101	174	171	-43	224	694	111	520	221	341
8	1,050	375	293	206	87	259	668	661	154	414	272	283
9	921	391	137	231	76	387	699	635	220	363	407	213
10	873	177	249	196	43	373	728	551	211	-1,190	571	131
11	777	146	411	168	156	226	572	528	-211	1,540	652	114
12	810	130	228	148	115	256	364	419	443	979	606	44
13	669	301	260	12	39	193	555	396	382	886	487	53
14	681	328	325	317	23	202	574	286	409	918	395	-34
15	576	270	221	356	182	229	516	292	427	1,200	399	-18
16	652	231	215	346	90	173	430	231	540	1,240	314	-135
17	570	247	202	326	135	266	344	177	609	1,120	240	-141
18	510	229	200	302	163	283	228	146	742	974	101	-189
19	467	178	194	215	57	203	228	192	752	817	35	-114
20	573	157	228	137	16	127	176	161	675	626	123	17
21	566	200	134	179	116	184	151	218	497	493	128	-250
22	519	166	12	181	148	131	89	185	423	410	93	-131
23	468	156	302	391	99	348	16	107	510	441	251	-129
24	427	-184	296	158	88	386	189	1.1	484	385	216	-46
25	476	570	263	181	161	373	87	90	327	349	203	41
26	467	281	337	150	106	538	-77	52	209	254	170	-39
27	390	119	260	227	-402	496	165	-0.21	256	223	-157	-73
28	357	508	267	210	304	502	203	12	234	192	125	-46
29	346	295	265	138	---	729	68	81	284	188	58	-35
30	333	276	260	116	---	534	-76	20	503	183	415	-35
31	281	---	233	192	---	460	---	84	---	187	728	---
MEAN	826	263	238	204	99.9	279	368	260	333	579	257	135
MAX	2,450	570	411	391	304	729	933	694	752	1,540	728	1,000
MIN	281	-184	12	12	-402	-43	-77	-0.21	-211	-1,190	-157	-250
IN.	1.99	0.61	0.57	0.49	0.22	0.67	0.86	0.62	0.77	1.39	0.62	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2005, BY WATER YEAR (WY)

MEAN	221	141	177	252	353	339	201	111	157	253	489	431
MAX	826	383	485	707	964	909	814	428	709	1,169	1,724	2,355
(WY)	(2005)	(2003)	(1965)	(1965)	(1965)	(1978)	(1970)	(1964)	(1966)	(1964)	(1965)	(1964)
MIN	46.0	-59.7	-103	-35.5	74.0	59.8	-10.4	-88.5	-39.2	55.5	-16.8	29.1
(WY)	(1985)	(2002)	(2001)	(2001)	(2001)	(1985)	(2001)	(2001)	(2004)	(1977)	(1989)	(1991)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005	
ANNUAL MEAN	383		322		272	
HIGHEST ANNUAL MEAN					629	1965
LOWEST ANNUAL MEAN					63.1	2001
HIGHEST DAILY MEAN	7,630	Sep 8	2,450	Oct 1	11,400	Sep 12, 1964
LOWEST DAILY MEAN	-2,090	Sep 6	-1,190	Jul 10	-2,310	Aug 31, 1985
ANNUAL SEVEN-DAY MINIMUM	-115	May 22	-135	Sep 16	-262	Dec 10, 2000
MAXIMUM PEAK FLOW			4,360	Jul 10	12,200	Sep 12, 1964
MAXIMUM PEAK STAGE			15.54	Jul 10	16.96	Sep 12, 1964
ANNUAL RUNOFF (INCHES)	10.88		9.12		7.70	
10 PERCENT EXCEEDS	789		711		613	
50 PERCENT EXCEEDS	202		231		163	
90 PERCENT EXCEEDS	-64		37		24	

02313700 WACCASASSA RIVER NEAR GULF HAMMOCK, FL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to current year.

REMARKS.--Water temperature and salinity records poor.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.4	22.8	17.5	---	---	---	---	---	---	25.4	26.5	26.0
2	25.6	23.0	17.2	---	---	---	---	---	---	25.9	26.4	26.3
3	25.8	22.9	16.0	---	---	---	---	---	---	26.4	26.7	26.5
4	25.8	22.8	14.9	---	---	---	---	---	---	26.7	26.7	26.1
5	25.5	21.8	14.6	---	---	---	---	---	---	27.0	26.4	25.6
6	24.9	19.5	15.5	---	---	---	---	---	---	27.5	25.8	25.2
7	24.1	18.4	16.7	---	---	---	---	---	---	27.4	26.1	24.9
8	23.2	17.5	18.1	---	---	---	---	---	---	27.4	25.8	25.0
9	23.1	17.4	19.2	---	---	---	---	---	---	26.8	25.8	25.0
10	23.4	17.7	20.3	---	---	---	---	---	---	26.4	25.9	25.2
11	23.5	18.4	18.6	---	---	---	---	---	---	26.1	26.2	25.2
12	22.9	19.1	15.6	---	---	---	---	---	---	26.5	26.7	25.1
13	23.1	19.7	14.4	---	---	---	---	---	---	26.4	27.1	25.7
14	21.9	19.7	14.1	---	---	---	---	---	25.7	26.3	27.3	26.2
15	22.1	18.9	11.6	---	---	---	---	---	26.2	25.9	27.4	26.2
16	19.4	18.5	11.0	---	---	---	---	---	26.4	26.0	27.7	26.3
17	19.8	17.8	11.9	---	---	---	---	---	26.4	26.5	28.0	26.3
18	20.6	17.2	13.1	---	---	---	---	---	25.7	26.7	28.5	26.9
19	21.8	17.6	13.5	---	---	---	---	---	25.1	26.8	28.7	26.9
20	23.0	18.3	12.2	---	---	---	---	---	25.1	27.1	28.1	26.3
21	23.5	18.9	11.1	---	---	---	---	---	25.1	27.5	26.7	26.7
22	22.8	19.3	11.8	---	---	---	---	---	25.1	27.8	27.4	27.3
23	21.8	19.6	14.0	---	---	---	---	---	24.9	27.5	27.3	26.8
24	21.3	20.1	14.7	---	---	---	---	---	25.2	27.2	26.6	26.3
25	21.4	20.3	12.6	---	---	---	---	---	25.2	27.3	27.1	26.3
26	21.5	17.2	11.3	---	---	---	---	---	25.5	26.9	26.7	26.6
27	21.3	16.0	10.2	---	---	---	---	---	26.0	27.0	26.6	26.4
28	21.0	16.5	10.5	---	---	---	---	---	25.6	27.5	27.6	26.2
29	21.5	16.1	11.7	---	---	---	---	---	25.2	27.7	27.0	25.4
30	22.4	16.7	13.1	---	---	---	---	---	25.2	26.7	27.5	25.2
31	22.8	---	13.9	---	---	---	---	---	---	26.3	26.4	---
MEAN	22.8	19.0	14.2	---	---	---	---	---	---	26.8	26.9	26.0
MAX	25.8	23.0	20.3	---	---	---	---	---	---	27.8	28.7	27.3
MIN	19.4	16.0	10.2	---	---	---	---	---	---	25.4	25.8	24.9

02313700 WACCASASSA RIVER NEAR GULF HAMMOCK, FL—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.08	0.13	0.18	---	---	---	---	---	---	0.14	0.16	0.13
2	0.07	0.13	0.17	---	---	---	---	---	---	0.13	0.20	0.13
3	0.08	0.14	0.17	---	---	---	---	---	---	0.12	0.28	0.12
4	0.08	0.14	0.16	---	---	---	---	---	---	0.11	0.31	0.12
5	0.08	0.13	0.23	---	---	---	---	---	---	0.11	0.41	0.12
6	0.08	0.13	0.34	---	---	---	---	---	---	0.11	0.24	0.12
7	0.08	0.14	0.20	---	---	---	---	---	---	0.11	0.23	0.12
8	0.08	0.14	0.18	---	---	---	---	---	---	0.11	0.18	0.12
9	0.08	0.14	0.19	---	---	---	---	---	---	0.11	0.13	0.12
10	0.09	0.14	0.22	---	---	---	---	---	---	1.0	0.10	0.12
11	0.09	0.15	0.21	---	---	---	---	---	---	1.1	0.09	0.12
12	0.10	0.33	0.18	---	---	---	---	---	---	0.18	0.10	0.13
13	0.10	0.60	0.19	---	---	---	---	---	---	0.12	0.09	0.82
14	0.10	0.23	0.18	---	---	---	---	---	0.14	0.11	0.09	1.7
15	0.11	0.17	0.16	---	---	---	---	---	0.13	0.09	0.09	2.2
16	0.11	0.16	0.16	---	---	---	---	---	0.12	0.09	0.11	3.8
17	0.11	0.15	0.16	---	---	---	---	---	0.11	0.09	0.29	3.9
18	0.10	0.15	0.17	---	---	---	---	---	0.11	0.08	1.1	4.8
19	0.10	0.20	0.16	---	---	---	---	---	0.10	0.09	1.5	4.1
20	0.10	0.21	0.16	---	---	---	---	---	0.10	0.10	1.4	0.41
21	0.10	0.17	1.3	---	---	---	---	---	0.10	0.14	1.2	2.2
22	0.10	0.18	1.1	---	---	---	---	---	0.10	0.55	1.2	8.2
23	0.11	0.25	0.86	---	---	---	---	---	0.10	0.23	0.65	5.4
24	0.11	0.92	0.21	---	---	---	---	---	0.11	0.18	0.27	2.3
25	0.11	2.1	0.18	---	---	---	---	---	0.12	0.14	0.18	0.27
26	0.12	0.30	0.18	---	---	---	---	---	0.12	0.11	0.14	0.41
27	0.12	0.28	0.18	---	---	---	---	---	0.12	0.11	0.18	0.36
28	0.12	0.26	0.17	---	---	---	---	---	0.12	0.11	6.1	1.7
29	0.13	0.22	0.18	---	---	---	---	---	0.12	0.11	2.2	1.8
30	0.13	0.20	0.18	---	---	---	---	---	0.13	0.11	1.4	1.9
31	0.13	---	0.16	---	---	---	---	---	---	0.14	0.16	---
MEAN	0.10	0.29	0.27	---	---	---	---	---	---	0.19	0.67	1.6
MAX	0.13	2.1	1.3	---	---	---	---	---	---	1.1	6.1	8.2
MIN	0.07	0.13	0.16	---	---	---	---	---	---	0.08	0.09	0.12

02315500 SUWANNEE RIVER AT WHITE SPRINGS, FL

LOCATION.--Lat 30° 19'32", long 82° 44'18", in SW$^{1}/_{4}$ sec. 8, T. 2 S., R. 16 E., Columbia County, Hydrologic Unit 03110201, on downstream side of bridge on U.S. Highway 41, 1.0 mi southeast of White Springs, and 171 mi upstream from mouth.

DRAINAGE AREA.--2,430 mi^2, approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--May 1906 to December 1908, February 1927 to current year.

REVISED RECORDS.--WSP 1504: 1906, 1908. WSP 1905: WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 31, 1932, nonrecording gage at site 1.0 mi downstream at datum 48.54 ft. Aug. 1, 1932 to Oct. 10, 1979, water-stage recorder, at present site, at datum 48.54 ft. Oct. 11, 1979 to Dec. 1, 1983, non-recording gage at site 2.2 miles downstream at NGVD. Dec. 2, 1983 to June 30, 1996, nonrecording gage, at present site and datum.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,100	6,420	1,370	1,430	1,150	3,150	8,540	5,490	907	3,590	2,600	2,760
2	17,400	6,010	1,340	1,410	1,150	3,190	9,490	5,310	859	3,980	2,410	2,680
3	17,500	5,570	1,310	1,390	1,160	3,110	10,400	4,930	836	4,650	2,550	2,560
4	17,500	5,110	1,280	1,370	1,170	3,080	11,100	4,540	818	5,300	2,730	2,390
5	17,300	4,620	1,240	1,340	1,170	3,090	11,300	4,230	816	5,610	3,480	2,220
6	17,000	4,110	1,210	1,320	1,160	3,090	11,600	4,160	963	5,820	4,170	2,040
7	16,700	3,630	1,180	1,290	1,140	3,070	11,700	4,050	1,130	6,000	4,220	1,870
8	16,200	3,180	1,160	1,270	1,120	3,160	12,100	3,840	1,210	6,170	4,300	1,710
9	15,800	2,790	1,130	1,240	1,100	3,310	12,500	3,570	1,220	6,300	4,420	1,570
10	15,400	2,440	1,120	1,220	1,080	3,320	12,700	3,300	1,240	6,520	4,510	1,440
11	15,000	2,160	1,110	1,200	1,040	3,280	12,700	3,050	1,290	6,820	4,490	1,320
12	14,700	1,950	1,060	1,190	1,010	3,230	12,700	2,820	1,650	7,010	4,400	1,220
13	14,300	1,880	1,030	1,170	971	3,160	12,700	2,610	2,260	7,010	4,260	1,130
14	13,900	1,740	991	1,230	946	3,070	12,600	2,400	2,900	6,940	4,050	1,040
15	13,500	1,620	951	1,320	936	2,980	12,400	e2,160	2,840	6,910	3,860	961
16	13,100	1,520	918	1,350	929	3,050	12,100	e1,940	2,870	6,870	3,680	889
17	12,700	1,440	891	1,360	923	3,780	11,800	1,810	2,830	6,800	3,480	825
18	12,400	1,370	870	1,340	906	4,030	11,600	1,720	2,740	6,680	3,270	771
19	12,000	1,320	849	1,320	883	4,090	11,400	1,570	2,660	6,440	3,080	726
20	11,700	1,280	825	1,310	860	4,130	11,100	1,450	2,450	6,090	2,890	688
21	11,500	1,230	801	1,300	841	4,140	10,700	1,390	2,250	5,700	2,700	647
22	11,200	1,190	783	1,280	825	4,170	10,400	1,340	2,080	5,250	2,510	601
23	10,800	1,160	780	1,260	812	4,310	e9,330	1,300	1,920	4,770	2,330	593
24	10,300	1,130	777	1,220	819	4,550	e8,370	1,250	1,790	4,300	2,230	666
25	9,820	1,180	786	1,180	871	5,310	e7,840	1,210	1,700	3,870	2,180	683
26	9,260	1,240	1,040	1,140	1,030	6,950	e7,560	1,150	1,680	3,500	2,260	698
27	8,680	1,230	1,430	1,110	1,240	7,830	7,290	1,110	1,700	3,210	2,470	704
28	8,140	1,350	1,520	1,080	2,590	8,130	6,670	1,070	1,870	2,970	2,620	694
29	7,650	1,410	1,500	1,040	---	8,110	6,080	1,010	2,180	2,760	2,690	672
30	7,220	1,400	1,470	1,090	---	8,090	5,560	966	2,910	2,680	2,740	656
31	6,810	---	1,450	1,140	---	8,210	---	941	---	2,740	2,790	---
MEAN	12,990	2,423	1,102	1,255	1,065	4,393	10,410	2,506	1,819	5,266	3,238	1,247
MAX	17,500	6,420	1,520	1,430	2,590	8,210	12,700	5,490	2,910	7,010	4,510	2,760
MIN	6,810	1,130	777	1,040	812	2,980	5,560	941	816	2,680	2,180	593
IN.	6.16	1.11	0.52	0.60	0.46	2.08	4.78	1.19	0.84	2.50	1.54	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2005, BY WATER YEAR (WY)

MEAN	1,809	861	1,016	1,751	2,657	3,345	3,084	1,102	845	1,264	1,897	1,918
MAX	13,100	16,450	9,103	8,401	12,950	14,200	23,910	8,288	6,317	5,274	10,870	13,310
(WY)	(1929)	(1948)	(1977)	(1942)	(1998)	(1998)	(1973)	(1964)	(1973)	(1906)	(1945)	(1964)
MIN	8.55	6.63	8.68	11.8	13.2	35.5	22.2	10.5	11.8	19.6	15.8	8.82
(WY)	(1932)	(1932)	(1932)	(1932)	(1932)	(1932)	(1932)	(1932)	(1935)	(1955)	(1990)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1906 - 2005	
ANNUAL MEAN	2,638		4,000		1,797	
HIGHEST ANNUAL MEAN					6,806	1948
LOWEST ANNUAL MEAN					144	2000
HIGHEST DAILY MEAN	17,500	Oct 3	17,500	Oct 3	38,000	Apr 10, 1973
LOWEST DAILY MEAN	20	Jun 8	593	Sep 23	2.8	Sep 26, 1990
ANNUAL SEVEN-DAY MINIMUM	23	Jun 3	654	Sep 20	3.4	Sep 26, 1990
MAXIMUM PEAK FLOW			17,600	Oct 3	38,100	Apr 10, 1973
MAXIMUM PEAK STAGE			84.03	Oct 3	88.56	Apr 10, 1973
INSTANTANEOUS LOW FLOW			562	Sep 23	2.8	Sep 26, 1990
ANNUAL RUNOFF (INCHES)	14.78		22.35		10.05	
10 PERCENT EXCEEDS	10,700		11,200		4,960	
50 PERCENT EXCEEDS	930		2,450		705	
90 PERCENT EXCEEDS	131		907		58	

e Estimated

02315500 SUWANNEE RIVER AT WHITE SPRINGS, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83.79	68.89	55.87	56.09	54.91	61.17	73.34	66.84	53.91	62.29	59.69	60.12
2	83.93	67.98	55.76	56.01	54.90	61.26	75.22	66.42	53.69	63.27	59.15	59.91
3	84.00	67.00	55.63	55.96	54.95	61.06	76.98	65.54	53.59	64.89	59.55	59.57
4	84.01	65.96	55.48	55.87	55.01	60.99	78.05	64.61	53.51	66.40	60.05	59.11
5	83.92	64.82	55.33	55.77	55.01	61.01	78.75	63.88	53.50	67.10	62.02	58.62
6	83.78	63.58	55.19	55.66	54.96	61.01	79.20	63.72	54.14	67.57	63.73	58.10
7	83.59	62.38	55.06	55.55	54.89	60.94	79.46	63.45	54.87	67.96	63.85	57.58
8	83.37	61.25	54.95	55.43	54.81	61.19	80.02	62.91	55.19	68.35	64.06	57.10
9	83.14	60.19	54.83	55.33	54.72	61.57	80.48	62.25	55.23	68.63	64.33	56.66
10	82.89	59.25	54.80	55.24	54.64	61.60	80.68	61.55	55.31	69.11	64.55	56.25
11	82.64	58.45	54.73	55.15	54.49	61.51	80.73	60.89	55.55	69.76	64.51	55.85
12	82.35	57.83	54.57	55.08	54.32	61.36	80.68	60.29	56.86	70.17	64.30	55.47
13	82.06	57.61	54.41	55.02	54.18	61.18	80.72	59.72	58.72	70.16	63.95	55.11
14	81.74	57.20	54.27	55.29	54.07	60.97	80.64	59.13	60.51	70.01	63.45	54.77
15	81.42	56.78	54.10	55.67	54.03	60.71	80.37	---	60.35	69.94	62.96	54.44
16	81.08	56.43	53.95	55.81	54.00	60.91	80.05	---	60.42	69.86	62.51	54.13
17	80.74	56.14	53.84	55.82	53.97	62.76	79.72	57.40	60.32	69.71	62.02	53.84
18	80.36	55.88	53.74	55.74	53.90	63.40	79.31	57.14	60.06	69.47	61.49	53.59
19	79.96	55.67	53.65	55.67	53.80	63.55	78.83	56.60	59.85	68.93	60.97	53.38
20	79.53	55.48	53.54	55.62	53.70	63.64	78.28	56.16	59.28	68.18	60.47	53.19
21	79.04	55.29	53.43	55.57	53.61	63.67	77.63	55.94	58.69	67.30	59.96	53.00
22	78.47	55.11	53.34	55.50	53.54	63.73	76.92	55.76	58.20	66.27	59.44	52.88
23	77.76	54.95	53.33	55.41	53.48	64.06	---	55.58	57.76	65.16	58.92	52.86
24	76.89	54.81	53.32	55.22	53.51	64.65	---	55.38	57.35	64.04	58.64	53.08
25	75.87	55.07	53.36	55.05	53.75	66.39	---	55.17	57.09	62.98	58.51	53.16
26	74.76	55.30	54.47	54.89	54.41	70.04	---	54.94	57.02	62.08	58.73	53.24
27	73.62	55.29	56.08	54.76	55.26	71.89	70.76	54.76	57.07	61.32	59.32	53.27
28	72.52	55.80	56.44	54.61	59.63	72.50	69.44	54.58	57.60	60.69	59.75	53.22
29	71.51	56.04	56.36	54.48	---	72.47	68.15	54.35	58.51	60.13	59.95	53.11
30	70.61	55.97	56.26	54.65	---	72.42	66.99	54.16	60.51	59.90	60.07	53.03
31	69.74	---	56.17	54.87	---	---	---	54.05	---	60.06	60.22	---
TOTAL	2,469.09	1,762.40	1,696.26	1,716.79	1,526.45	---	---	---	1,714.66	2,051.69	1,901.12	1,657.64
MEAN	79.65	58.75	54.72	55.38	54.52	---	---	---	57.16	66.18	61.33	55.25
MAX	84.01	68.89	56.44	56.09	59.63	---	---	---	60.51	70.17	64.55	60.12
MIN	69.74	54.81	53.32	54.48	53.48	---	---	---	53.50	59.90	58.51	52.86

02319000 WITHLACOOCHEE RIVER NEAR PINETTA, FL

LOCATION.--Lat 30° 35'43", long 83° 15'35", in NW1/4 sec. 7, T. 2 N., R. 11 E., Madison County, Hydrologic Unit 03110203, on right bank 300 ft downstream from County Road 150 bridge, 0.1 mi downstream from small tributary, 0.3 mi west of Bellville, 5.6 mi east of Pinetta, and 22 mi upstream from mouth.

DRAINAGE AREA.--2,120 mi^2, approximately.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for October and November 1931, published in WSP 1304.

REVISED RECORDS.--WSP 972: 1941-42. WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 47.21 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Oct. 11, 1931 to Dec. 3, 1941, nonrecording gage at same site and datum. Dec. 3, 1941 to Aug. 2, 1972, water-stage recorder at same site and datum. Aug. 2, 1972 to Apr. 22, 1986, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1928 reached a stage of 36.75 ft from floodmarks, discharge, 53,600 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,600	1,190	3,830	4,190	1,380	2,120	13,900	2,410	577	3,370	1,860	1,330
2	14,600	1,130	3,990	4,210	1,420	2,320	14,500	2,780	534	4,230	1,880	1,340
3	16,800	1,080	3,940	4,010	1,520	2,390	15,000	2,920	895	4,600	1,910	1,330
4	17,800	1,040	3,740	3,640	1,620	2,490	15,600	2,960	2,360	4,990	2,140	1,270
5	17,100	1,030	3,440	3,200	1,680	2,680	16,300	3,060	2,660	5,130	2,680	1,150
6	15,300	1,090	3,080	2,730	1,710	3,050	16,700	3,220	2,630	4,940	3,630	1,030
7	12,800	1,130	2,580	2,320	1,730	3,250	16,800	3,290	2,740	4,360	4,460	892
8	10,300	1,090	2,150	2,050	1,750	3,480	16,800	3,230	2,480	3,550	5,000	779
9	8,340	1,020	1,920	1,870	1,740	3,720	16,000	3,180	2,330	2,860	5,290	697
10	5,810	958	1,810	1,750	1,680	3,550	15,300	3,230	2,420	2,560	5,320	633
11	3,480	899	1,770	1,670	1,600	3,060	13,900	3,270	2,740	3,800	5,120	581
12	2,460	861	1,790	1,600	1,510	2,640	12,900	3,100	3,560	5,270	4,870	520
13	2,060	903	1,900	1,530	1,400	2,400	10,500	2,700	4,480	6,590	4,720	488
14	1,840	934	2,150	1,610	1,320	2,220	9,070	2,240	5,490	9,240	4,450	458
15	1,830	1,000	2,520	1,980	1,300	2,060	8,230	1,820	6,320	11,700	3,920	425
16	2,050	1,070	2,890	2,130	1,320	2,130	7,490	1,490	7,080	12,700	3,200	400
17	2,080	1,080	3,110	2,190	1,350	3,170	6,750	1,270	7,830	13,700	2,480	378
18	2,070	1,050	2,930	2,250	1,370	3,880	5,560	1,110	8,700	14,600	1,930	362
19	2,090	995	2,390	2,350	1,340	4,230	4,320	993	9,320	14,800	1,610	346
20	2,150	919	1,930	2,440	1,260	4,640	3,320	901	9,230	14,000	1,440	329
21	2,300	867	1,650	2,420	1,180	5,030	2,660	832	8,510	12,200	1,350	335
22	2,270	831	1,470	2,260	1,120	5,260	2,240	799	7,170	9,950	1,300	368
23	2,170	807	1,350	2,040	1,060	5,890	2,000	752	4,810	7,520	1,270	388
24	2,060	831	1,270	1,810	1,040	6,270	1,920	736	2,820	5,130	1,200	378
25	1,990	992	1,240	1,620	1,070	6,510	1,810	762	2,070	3,820	1,230	414
26	1,880	1,200	1,600	1,470	1,090	6,990	1,670	745	1,780	3,210	1,310	352
27	1,720	1,490	2,530	1,370	1,180	7,650	1,690	753	1,560	2,620	1,390	320
28	1,560	2,100	2,970	1,280	1,720	8,770	1,760	799	1,420	2,140	1,360	309
29	1,430	2,760	3,340	1,220	---	10,500	1,890	800	1,440	1,850	1,240	338
30	1,330	3,380	3,680	1,230	---	12,100	2,060	723	2,130	1,760	1,150	318
31	1,250	---	3,990	1,330	---	13,200	---	635	---	1,700	1,180	---
MEAN	5,565	1,191	2,547	2,186	1,409	4,763	8,621	1,855	3,936	6,416	2,642	609
MAX	17,800	3,380	3,990	4,210	1,750	13,200	16,800	3,290	9,320	14,800	5,320	1,340
MIN	1,250	807	1,240	1,220	1,040	2,060	1,670	635	534	1,700	1,150	309
IN.	3.03	0.63	1.39	1.19	0.69	2.59	4.54	1.01	2.07	3.49	1.44	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005, BY WATER YEAR (WY)

MEAN	774	610	1,242	2,101	3,448	4,175	3,229	1,301	1,015	1,083	1,168	842
MAX	8,178	9,450	11,280	8,134	14,720	12,820	17,320	8,154	6,043	6,416	6,759	6,625
(WY)	(1995)	(1948)	(1965)	(1993)	(1986)	(2003)	(1948)	(1964)	(1973)	(2005)	(1991)	(1935)
MIN	85.7	78.1	92.4	116	133	238	253	161	101	80.2	81.7	96.5
(WY)	(1955)	(1955)	(1955)	(1934)	(1934)	(1955)	(1968)	(2002)	(2002)	(2002)	(2002)	(1954)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1932 - 2005	
ANNUAL MEAN	1,976		3,494		1,740	
HIGHEST ANNUAL MEAN					5,364	1948
LOWEST ANNUAL MEAN					236	1955
HIGHEST DAILY MEAN	17,800	Oct 4	17,800	Oct 4	73,600	Apr 5, 1948
LOWEST DAILY MEAN	139	Jun 10	309	Sep 28	19	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	168	Jun 5	347	Sep 24	26	Aug 11, 2002
MAXIMUM PEAK FLOW			17,900	Oct 4	79,400	Apr 5, 1948
MAXIMUM PEAK STAGE			31.08	Apr 7	38.64	Apr 5, 1948
INSTANTANEOUS LOW FLOW			300	Sep 28	14	Aug 13, 2002
ANNUAL RUNOFF (INCHES)	12.69		22.38		11.15	
10 PERCENT EXCEEDS	4,940		8,890		4,600	
50 PERCENT EXCEEDS	962		2,090		635	
90 PERCENT EXCEEDS	287		821		146	

02319300 WITHLACOOCHEE RIVER NEAR MADISON, FL

LOCATION.--Lat 30° 28'56", long 83° 14'35", in SW 1/4 sec. 17, T. 1 N., R. 11 E., Hamilton County, Hydrologic Unit 03110203, on left bank 260 ft below bridge on State Highway 6, 10.2 mi east of Madison, and 12 mi upstream from mouth.

DRAINAGE AREA.--2,300 mi^2, approximately.

PERIOD OF RECORD.--1965 to 1984 (miscellaneous discharge measurements), October 1964 to September 1972 and October 1975 to September 1984 (annual maximum discharge and gage height), November 2004 to September 2005.

GAGE.--Water-stage and water -current recorders. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to 1984, non recording and crest-stage gage at same site and datum.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 16,900 ft^3/s, April 7, (estimated); maximum gage height, 76.23 ft, April 9, 10; minimum daily discharge, 570 ft^3/s, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	3,940	4,380	2,230	2,460	e14,300	e2,550	1,210	3,900	2,390	1,970
2	---	---	4,090	4,460	2,260	2,610	e14,700	2,550	1,180	4,770	2,360	2,000
3	---	---	4,150	4,360	2,330	2,700	e15,200	2,590	1,430	4,980	2,390	2,000
4	---	---	4,160	4,060	2,410	2,790	e15,900	2,610	2,620	5,250	2,540	1,970
5	---	---	4,090	3,650	2,480	2,910	e16,500	2,700	2,970	5,460	2,990	1,870
6	---	---	3,770	3,300	2,510	3,060	e16,700	2,790	3,050	5,380	3,830	1,750
7	---	---	3,340	3,020	2,530	3,160	e16,900	2,830	3,280	5,090	4,670	1,580
8	---	---	3,100	2,790	2,540	3,320	e16,700	2,750	3,180	4,560	5,380	1,400
9	---	---	e2,920	2,660	2,540	3,500	e16,400	2,710	3,070	4,060	5,800	1,260
10	---	1,850	e2,780	2,560	2,520	3,380	e15,700	2,720	3,150	3,710	5,790	1,150
11	---	1,790	2,710	2,500	2,460	3,000	e14,700	2,790	3,240	4,450	5,580	1,060
12	---	1,660	2,700	2,450	2,380	2,690	e13,700	2,680	3,420	5,740	5,330	982
13	---	1,510	2,770	2,390	2,290	2,540	e12,500	2,340	4,190	6,510	5,130	928
14	---	1,680	3,020	2,440	2,180	2,470	e11,100	1,970	4,330	8,280	4,810	879
15	---	1,740	3,250	2,720	2,150	2,440	e10,000	1,680	5,250	10,200	4,280	836
16	---	1,810	3,520	2,830	2,140	2,450	e9,030	1,640	6,540	11,500	3,580	787
17	---	1,860	3,810	2,900	2,160	2,960	e8,080	1,580	6,850	13,000	2,940	750
18	---	e1,850	3,640	2,940	2,150	3,500	e6,890	1,480	7,690	14,300	2,510	710
19	---	e1,810	3,110	3,010	2,100	3,920	e5,890	1,440	8,740	15,100	2,280	671
20	---	e1,730	2,680	3,080	2,030	4,250	e5,190	1,420	9,300	15,000	2,120	638
21	---	e1,630	2,510	3,070	1,930	4,650	e4,660	1,380	9,290	13,800	2,000	624
22	---	e1,560	2,370	2,970	1,850	5,010	e4,220	1,320	8,650	11,900	1,920	675
23	---	e1,510	e2,230	2,850	1,790	5,840	e3,840	1,260	6,510	9,460	1,900	682
24	---	e1,580	e2,180	2,680	1,740	6,410	e3,590	1,220	4,380	6,710	1,820	665
25	---	e1,670	e2,140	2,520	1,690	6,850	e3,310	1,240	3,580	4,930	1,820	724
26	---	e1,870	2,370	2,390	1,620	7,520	e2,990	1,240	3,160	4,140	1,870	657
27	---	e2,180	3,040	2,320	1,640	8,240	e2,620	1,250	2,750	3,440	1,930	596
28	---	e2,600	3,320	2,230	2,060	9,280	e2,520	1,320	2,560	2,880	1,930	574
29	---	3,110	3,750	2,140	---	10,600	e2,490	1,380	2,480	2,550	1,860	588
30	---	3,460	3,990	2,110	---	12,400	e2,490	1,340	2,940	2,410	1,820	570
31	---	---	4,220	2,180	---	13,500	---	1,260	---	2,280	1,850	---
MEAN	---	---	3,215	2,902	2,168	4,852	9,627	1,936	4,366	6,959	3,143	1,052
MAX	---	---	4,220	4,460	2,540	13,500	16,900	2,830	9,300	15,100	5,800	2,000
MIN	---	---	2,140	2,110	1,620	2,440	2,490	1,220	1,180	2,280	1,820	570
MED	---	---	3,110	2,790	2,170	3,380	9,530	1,640	3,260	5,250	2,390	812

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	---	3,215	2,902	2,168	4,852	9,627	1,936	4,366	6,959	3,143	1,052
MAX	---	---	3,215	2,902	2,168	4,852	9,627	1,936	4,366	6,959	3,143	1,052
(WY)	---	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	---	3,215	2,902	2,168	4,852	9,627	1,936	4,366	6,959	3,143	1,052
(WY)	---	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

e Estimated

02319302 MADISON BLUE SPRING NEAR MADISON, FL

LOCATION.--Lat 30° 28'49", long 83° 14'40" in SW 1/4 sec. 17, T. 1 N., R.11 E., Madison County, Hydrologic Unit 03110203, in the spring run on right bank of Withlacoochee River, 10.2 mi east of Madison.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1932, 1946, 1956, 1961, 1963, 1974, 1977, 1985, 1990-91, 1993, 1995-96, 1998 (miscellaneous discharge measurements), February 2002 to current year (fragmentary). Prior to February 2002, published as Blue Spring near Madison.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is 33 ft above National Geodetic Vertical Datum of 1929. Prior to February 2002, non-recording gage at same site at National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records poor. Discharge computed from continuous velocity record obtained from water-current meter. The Withlacoochee River flow can back up into the spring run during periods of high flow producing large negative or positive velocities and discharges. Flow computed during these periods could contain a mixture of river and spring flow, or be totally river flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	505	226	-42	157	22	---	107	262	12	373	321
2	---	477	278	-77	149	-33	---	11	215	75	334	331
3	---	457	228	-132	134	-87	---	-25	214	133	294	334
4	---	439	151	-197	113	-136	---	-33	-5.6	152	207	337
5	---	417	128	-147	109	-145	---	-71	-76	189	40	345
6	---	400	171	23	115	-84	---	-98	-68	197	-80	369
7	---	392	262	81	112	-100	---	-128	-72	127	-63	372
8	---	387	291	138	109	-77	---	-139	-42	-12	-68	334
9	---	377	371	202	115	-52	---	-136	9.6	42	-98	315
10	---	369	376	210	127	-107	---	-148	-18	151	-116	300
11	515	367	354	197	134	-123	---	-169	-38	109	-54	273
12	385	364	326	190	139	23	---	-163	-43	57	-28	268
13	230	353	298	188	150	57	---	-86	-65	-110	21	282
14	223	342	210	165	159	87	---	93	-244	-87	40	298
15	162	332	126	77	159	123	---	291	-295	-107	-110	291
16	88	333	-17	-6.4	153	118	---	348	-360	---	-150	295
17	153	328	-52	-19	146	-47	---	315	-421	---	87	284
18	184	329	-44	-5.9	143	-42	---	302	-395	---	286	278
19	197	330	133	-29	147	-26	-29	293	-410	---	369	269
20	191	331	272	-73	157	-25	-41	289	-399	---	386	275
21	184	342	305	-56	171	-0.02	-70	282	-344	---	363	249
22	184	357	292	27	183	10	-75	276	49	---	353	196
23	215	357	274	77	196	6.9	-35	---	-157	752	344	174
24	235	336	258	153	204	17	35	---	-65	370	340	167
25	247	323	248	178	205	-26	77	273	345	41	331	151
26	399	283	200	187	199	-92	122	296	399	-67	323	135
27	507	266	-39	185	189	-53	148	293	434	125	324	129
28	557	225	-101	184	102	-16	183	283	402	463	328	130
29	594	109	-43	190	---	-11	281	265	366	523	332	108
30	584	159	-49	185	---	---	250	276	208	495	334	94
31	544	---	-42	163	---	---	---	288	---	474	331	---
TOTAL	---	10,386	5,391	2,215.7	4,176	---	---	---	-614.0	---	5,373	7,704
MEAN	---	346	174	71.5	149	---	---	---	-20.5	---	173	257
MAX	---	505	376	210	205	---	---	---	434	---	386	372
MIN	---	109	-101	-197	102	---	---	---	-421	---	-150	94
MED	---	347	226	81	148	---	---	---	-42	---	294	280
AC-FT	---	20,600	10,690	4,390	8,280	---	---	---	-1,220	---	10,660	15,280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	62.0	214	127	83.3	98.0	---	119	109	47.9	96.1	97.0	140
MAX	71.7	346	174	109	149	---	119	182	110	140	173	257
(WY)	(2004)	(2005)	(2005)	(2004)	(2005)	---	(2004)	(2003)	(2004)	(2003)	(2005)	(2005)
MIN	52.3	91.3	40.6	69.3	46.8	---	119	62.0	-20.5	51.4	50.7	59.8
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	---	(2004)	(2002)	(2005)	(2002)	(2002)	(2003)

SUMMARY STATISTICS	WATER YEARS 2002 - 2005	
HIGHEST DAILY MEAN	752	Jul 23, 2005
LOWEST DAILY MEAN	-421	Jun 17, 2005
ANNUAL SEVEN-DAY MINIMUM	-375	Jun 15, 2005
MAXIMUM PEAK FLOW	1,160	Jul 23, 2005
MAXIMUM PEAK STAGE	35.09	Mar 15, 2003

02319394 WITHLACOOCHEE RIVER NEAR LEE, FL

LOCATION.--Lat 30° 24'37", long 83° 10'49", in SW 1/4 sec.12, T. 1 S., R. 11 E., Madison County, Hydrologic Unit 03110203, near right bank on downstream side of bridge on County Road 141 and Myrrh Road, 2.3 mi upstream from mouth, and 7.3 mi east of Lee.

DRAINAGE AREA.--2,330 mi^2.

PERIOD OF RECORD.--November 2000 to current year.

REVISED RECORDS.--WRD FL-02-4:2001.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is not determined.

REMARKS.--Records fair, except for Oct. 1 to July 26 and estimated daily discharges which are poor. Maximum gage height, 58.95 ft, Apr. 12, backwater from the Suwannee River.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8,100	2,380	e4,030	5,160	2,210	2,870	e10,500	e4,130	e1,730	e5,250	3,220	2,040
2	e11,100	2,470	e4,250	5,250	2,260	3,050	e11,200	e4,180	e1,610	e5,560	3,250	1,970
3	12,800	e2,320	e4,230	5,140	2,320	3,280	e11,700	e4,270	e3,200	e5,830	3,200	2,070
4	13,200	e2,350	e3,940	4,870	2,480	3,510	e12,200	4,460	e3,840	e5,790	3,280	2,050
5	14,200	e2,330	e3,670	4,600	2,620	3,740	e12,600	4,610	e3,860	e5,870	3,790	1,950
6	14,400	e2,320	e3,590	4,120	2,680	3,960	e13,100	4,510	e4,170	e5,600	4,680	1,810
7	14,300	e2,480	e3,430	3,730	e2,690	e4,350	e13,500	4,560	e4,210	e5,110	5,520	1,720
8	13,400	e2,520	e3,380	3,400	2,720	4,480	e14,000	4,720	e4,130	e4,620	6,250	1,570
9	12,800	e2,500	e3,360	3,090	2,800	4,720	e14,500	4,740	e3,580	e4,140	6,860	1,560
10	9,100	e2,040	e3,340	e2,720	e2,860	4,710	e15,000	4,730	e3,450	e3,920	6,700	1,380
11	6,000	e2,230	e3,280	2,660	e2,650	4,270	e14,900	4,720	e3,970	e4,840	6,560	1,360
12	4,350	e2,220	e3,160	2,620	e2,520	4,020	e14,200	e4,500	e4,990	e6,410	6,010	1,270
13	3,760	e2,240	e3,090	2,480	e2,430	e3,760	e13,200	4,550	e6,100	e8,300	5,960	1,320
14	2,900	2,170	e3,320	2,550	2,270	3,520	e12,000	e4,240	e6,640	e10,500	5,800	1,270
15	2,510	e2,260	e3,700	2,820	2,220	3,330	e11,000	3,770	e7,490	e12,600	5,240	1,260
16	3,260	e2,310	e4,070	e3,130	2,260	3,220	e10,100	e3,390	e8,340	e13,800	4,530	1,180
17	3,540	e2,360	e4,240	3,120	2,220	3,780	e9,180	e3,590	e9,190	e14,600	3,560	1,230
18	3,250	e2,420	e4,390	3,220	2,280	4,320	e8,080	e3,320	e9,810	e15,500	2,680	1,180
19	3,360	e2,260	e4,010	3,260	2,240	4,740	e7,030	e3,080	e10,000	e15,900	2,220	1,200
20	3,090	e2,110	e3,350	3,470	2,180	5,300	e6,380	e2,890	e10,100	e15,800	1,950	1,130
21	3,410	e1,960	e2,920	3,490	2,080	e5,500	e6,020	e2,660	e10,200	e14,200	1,950	1,070
22	3,460	e1,940	e2,620	3,430	1,950	5,930	e5,600	e2,430	e9,700	e12,300	1,820	1,100
23	3,360	e1,980	2,490	3,260	1,870	6,010	e5,240	e2,390	e9,040	e9,790	1,860	1,120
24	e3,160	e1,900	e2,340	3,000	1,810	6,440	e4,920	e2,270	e8,420	e7,300	1,800	1,050
25	e3,200	e1,880	e2,250	e2,690	1,830	6,520	e4,550	e2,230	e7,840	e5,680	1,810	1,100
26	3,080	e1,920	e2,220	2,620	e1,750	e7,300	e4,270	e2,190	e6,870	e4,920	1,840	1,040
27	e2,940	e2,180	e2,940	e2,430	e1,930	e7,900	e4,040	e2,160	e5,790	e4,480	2,030	895
28	e2,770	e2,620	e3,700	e2,250	2,170	e8,500	e4,040	e2,220	e4,790	4,270	2,080	842
29	e2,700	e3,290	4,300	e2,080	---	e9,000	e4,090	e2,190	e4,090	3,610	1,910	837
30	2,650	e3,700	4,700	2,110	---	e9,600	e4,090	e1,920	e4,630	3,360	1,760	740
31	e2,530	---	5,080	2,160	---	e10,100	---	e1,810	---	3,050	1,670	---
MEAN	6,215	2,322	3,529	3,256	2,296	5,217	9,374	3,465	6,059	7,835	3,606	1,344
MAX	14,400	3,700	5,080	5,250	2,860	10,100	15,000	4,740	10,200	15,900	6,860	2,070
MIN	2,510	1,880	2,220	2,080	1,750	2,870	4,040	1,810	1,610	3,050	1,670	740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	2,009	1,339	1,527	1,755	2,191	5,096	4,166	1,529	2,309	2,686	2,093	1,836
MAX	6,215	2,322	3,529	3,256	4,948	11,770	9,374	3,465	6,059	7,835	4,402	3,936
(WY)	(2005)	(2005)	(2005)	(2005)	(2004)	(2003)	(2005)	(2005)	(2005)	(2005)	(2003)	(2004)
MIN	396	392	365	385	496	1,936	935	352	346	338	338	449
(WY)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL MEAN	2,471		4,559		2,576	
HIGHEST ANNUAL MEAN					4,559	2005
LOWEST ANNUAL MEAN					568	2002
HIGHEST DAILY MEAN	14,400	Oct 6	e 15,900	Jul 19	18,200	Mar 16, 2003
LOWEST DAILY MEAN	310	Jun 9	740	Sep 30	215	May 23, 2002
ANNUAL SEVEN-DAY MINIMUM	347	Jun 6	929	Sep 24	244	May 21, 2002
MAXIMUM PEAK FLOW			16,500	Oct 6	20,000	Mar 16, 2003
MAXIMUM PEAK STAGE			58.95	Apr 12	58.95	Apr 12, 2005
INSTANTANEOUS LOW FLOW			196	Sep 30	106	Jun 9, 2004
10 PERCENT EXCEEDS	4,910		10,000		5,590	
50 PERCENT EXCEEDS	1,720		3,430		1,630	
90 PERCENT EXCEEDS	690		1,840		356	

e Estimated

02319500 SUWANNEE RIVER AT ELLAVILLE, FL

LOCATION.--Lat 30° 23'04", long 83° 10'19", in NE$^{1}/_{4}$ sec. 24, T. 1 S., R. 11 E., Suwannee County, Hydrologic Unit 03110205, on left bank at Ellaville, 100 ft upstream from Seaboard Air Line Railroad bridge, 200 ft downstream from Withlacoochee River, 900ft upstream from bridge on U.S. Highway 90, and 127 mi upstream from mouth.

DRAINAGE AREA.--6,970 mi^2, approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--January 1927 to current year.

REVISED RECORDS.--WSP 1905: WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 27.22 ft above National Geodetic Vertical Datum of 1929. Prior to June 20, 1932, nonrecording gage at same site and datum. Nov. 8, 1955 to Sept. 30, 1970, nonrecording gage 1.1 mi downstream from base gage at datum 2.67ft lower, used as supplementary gage when flow was less than 4,800 ft^3/s.

REMARKS.--Records good above 5,000 cfs, and fair below. Since Nov. 7, 1953, slight regulation at low water caused by diversions above control 0.7 mi downstream from gage by a steam-electric powerplant for cooling of condensers. Total diverted flow is returned to river below control. Records include flow of large spring on left bank about 200 ft downstream; spring flow may reverse during high stages.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25,300	13,300	7,840	8,620	5,360	6,520	23,200	15,100	5,480	10,400	10,600	7,880
2	26,700	12,800	8,120	8,760	5,370	7,120	24,500	15,000	5,330	11,100	10,400	7,820
3	27,900	12,400	8,250	8,800	5,400	7,460	25,400	14,900	5,200	11,500	10,100	7,680
4	28,900	11,900	8,260	8,720	5,450	7,680	26,300	14,600	5,800	11,900	10,100	7,470
5	30,700	11,500	8,220	8,520	5,500	7,890	27,200	14,400	6,730	12,300	10,300	7,200
6	32,200	11,000	8,100	8,230	5,540	8,120	28,100	14,300	7,180	12,500	11,100	6,900
7	32,900	10,600	7,860	7,870	5,570	8,350	29,200	14,200	7,580	12,700	11,900	6,580
8	32,900	10,100	7,550	7,530	5,570	8,670	32,300	14,000	7,660	12,600	12,500	6,270
9	32,200	9,620	7,280	7,240	5,570	9,090	35,400	13,700	7,550	12,400	12,900	5,980
10	30,700	9,110	7,110	6,990	5,530	9,420	37,800	13,400	7,530	12,400	13,300	5,700
11	28,900	8,650	6,940	6,780	5,420	9,490	39,400	13,000	7,720	12,700	13,400	5,450
12	28,100	8,260	6,790	6,590	5,310	9,370	40,000	12,700	8,300	13,500	13,400	5,210
13	27,400	7,950	6,690	6,400	5,180	9,180	39,700	12,200	9,220	14,400	13,300	4,990
14	26,800	7,670	6,640	6,280	5,060	9,000	38,300	11,700	10,300	15,400	13,100	4,790
15	26,200	7,430	6,700	6,390	4,970	8,790	36,400	11,100	11,300	16,400	12,900	4,580
16	25,400	7,230	6,850	6,590	4,940	8,700	34,300	10,500	12,100	17,200	12,600	4,400
17	24,700	7,050	7,040	6,670	4,920	9,230	32,000	9,950	12,800	18,300	12,200	4,230
18	23,900	6,830	7,090	6,690	4,910	10,000	29,700	9,410	13,400	19,400	11,700	4,070
19	22,800	6,620	6,860	6,740	4,880	10,700	28,300	8,920	13,900	20,100	11,100	3,920
20	21,800	6,390	6,410	6,810	4,830	11,100	27,400	8,470	14,200	20,400	10,500	3,780
21	20,900	6,160	6,000	6,820	4,730	11,500	26,400	8,110	14,200	20,200	10,000	3,670
22	20,000	5,940	5,720	6,740	4,630	11,700	25,300	7,740	13,900	19,300	9,630	3,600
23	19,000	5,750	5,560	6,550	4,530	12,200	24,300	7,440	13,300	18,000	9,250	3,540
24	18,100	5,610	5,410	6,310	4,480	13,000	22,900	7,170	12,300	16,600	8,880	3,490
25	17,200	5,570	5,330	6,100	4,440	14,000	21,100	6,910	11,500	15,600	8,560	3,470
26	16,600	5,660	5,480	5,910	4,410	15,400	19,300	6,640	10,800	14,700	8,370	3,440
27	16,000	5,860	6,270	5,730	4,520	16,500	17,700	6,390	10,200	13,800	8,290	3,390
28	15,400	6,250	7,090	5,530	5,310	17,700	16,600	6,220	9,610	12,900	8,250	3,350
29	14,800	6,810	7,670	5,390	---	19,200	16,000	6,050	9,280	12,000	8,160	3,310
30	14,300	7,380	8,100	5,300	---	20,600	15,400	5,860	9,570	11,400	8,000	3,260
31	13,700	---	8,400	5,310	---	21,900	---	5,670	---	10,900	7,890	---
MEAN	23,950	8,247	7,020	6,868	5,083	11,280	28,000	10,510	9,798	14,610	10,730	4,981
MAX	32,900	13,300	8,400	8,800	5,570	21,900	40,000	15,100	14,200	20,400	13,400	7,880
MIN	13,700	5,570	5,330	5,300	4,410	6,520	15,400	5,670	5,200	10,400	7,890	3,260
IN.	3.96	1.32	1.16	1.14	0.76	1.87	4.48	1.74	1.57	2.42	1.78	0.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2005, BY WATER YEAR (WY)

MEAN	5,027	3,502	4,149	6,133	9,083	11,820	11,240	6,021	4,230	4,520	5,703	5,289
MAX	32,940	35,590	30,600	21,150	30,720	36,610	53,180	25,380	17,800	14,610	34,990	30,760
(WY)	(1929)	(1948)	(1948)	(1977)	(1991)	(1998)	(1948)	(1928)	(1973)	(2005)	(1928)	(1928)
MIN	913	895	805	882	1,189	1,240	1,702	1,245	792	877	903	1,081
(WY)	(2003)	(2000)	(2002)	(2000)	(1957)	(1955)	(1968)	(1932)	(2000)	(2000)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1927 - 2005	
ANNUAL MEAN	7,044		11,800		6,417	
HIGHEST ANNUAL MEAN					19,710	1948
LOWEST ANNUAL MEAN					1,296	1955
HIGHEST DAILY MEAN	32,900	Oct 7	40,000	Apr 12	94,700	Apr 8, 1948
LOWEST DAILY MEAN	1,190	Jun 9	3,260	Sep 30	720	Jun 20, 2000
ANNUAL SEVEN-DAY MINIMUM	1,230	Jun 3	3,390	Sep 24	740	Jun 16, 2000
MAXIMUM PEAK FLOW			40,200	Apr 12	95,300	Apr 7, 1948
MAXIMUM PEAK STAGE			31.45	Apr 12	40.88	Apr 7, 1948
INSTANTANEOUS LOW FLOW			3,230	Sep 30	703	Jun 20, 2000
ANNUAL RUNOFF (INCHES)	13.76		22.99		12.51	
10 PERCENT EXCEEDS	18,000		24,900		14,700	
50 PERCENT EXCEEDS	3,420		8,920		3,870	
90 PERCENT EXCEEDS	1,670		5,310		1,460	

02319500 SUWANNEE RIVER AT ELLAVILLE, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.80	14.66	8.64	9.49	5.96	7.20	22.97	16.72	6.09	11.48	11.70	8.68
2	26.23	14.15	8.95	9.65	5.96	7.86	24.00	16.60	5.93	12.25	11.41	8.62
3	27.44	13.64	9.09	9.69	6.00	8.23	24.91	16.43	5.79	12.70	11.16	8.47
4	28.35	13.14	9.10	9.61	6.05	8.46	25.83	16.16	6.42	13.12	11.14	8.24
5	28.99	12.63	9.05	9.39	6.11	8.70	26.70	15.91	7.43	13.53	11.38	7.95
6	29.41	12.13	8.93	9.07	6.15	8.95	27.56	15.77	7.93	13.83	12.25	7.62
7	29.62	11.67	8.66	8.67	6.18	9.20	28.45	15.67	8.35	13.97	13.11	7.28
8	29.62	11.15	8.32	8.30	6.19	9.55	29.43	15.48	8.45	13.89	13.75	6.94
9	29.42	10.59	8.03	7.99	6.19	10.01	30.26	15.14	8.32	13.70	14.28	6.62
10	29.00	10.03	7.85	7.72	6.14	10.37	30.88	14.76	8.30	13.63	14.63	6.33
11	28.32	9.53	7.66	7.49	6.02	10.45	31.27	14.38	8.51	14.00	14.81	6.05
12	27.58	9.10	7.50	7.28	5.90	10.31	31.41	13.96	9.14	14.95	14.81	5.79
13	26.93	8.76	7.39	7.08	5.77	10.11	31.34	13.47	10.16	15.93	14.67	5.56
14	26.28	8.46	7.34	6.95	5.64	9.91	31.01	12.88	11.34	17.06	14.45	5.34
15	25.67	8.19	7.40	7.07	5.54	9.68	30.52	12.25	12.40	18.20	14.23	5.13
16	24.96	7.98	7.57	7.29	5.51	9.58	29.97	11.60	13.31	19.04	13.91	4.93
17	24.20	7.78	7.76	7.37	5.49	10.16	29.37	10.96	14.08	19.76	13.47	4.75
18	23.44	7.55	7.82	7.39	5.48	11.06	28.69	10.37	14.77	20.44	12.89	4.58
19	22.71	7.31	7.58	7.45	5.44	11.75	27.84	9.83	15.36	20.95	12.24	4.42
20	22.08	7.07	7.09	7.52	5.39	12.28	26.88	9.33	15.66	21.16	11.61	4.28
21	21.45	6.82	6.64	7.53	5.29	12.65	25.87	8.93	15.65	21.00	11.06	4.16
22	20.85	6.58	6.34	7.45	5.18	12.91	24.86	8.54	15.38	20.43	10.61	4.09
23	20.24	6.37	6.17	7.24	5.07	13.41	23.86	8.20	14.70	19.55	10.18	4.02
24	19.63	6.23	6.01	6.98	5.02	14.36	22.76	7.91	13.59	18.44	9.78	3.97
25	19.01	6.18	5.92	6.75	4.97	15.47	21.60	7.63	12.63	17.29	9.43	3.96
26	18.36	6.28	6.09	6.54	4.95	16.99	20.44	7.34	11.87	16.29	9.22	3.92
27	17.69	6.50	6.93	6.35	5.06	18.28	19.39	7.07	11.18	15.26	9.13	3.87
28	17.01	6.91	7.82	6.14	5.91	19.36	18.45	6.88	10.58	14.21	9.09	3.83
29	16.36	7.52	8.46	5.98	---	20.32	17.67	6.70	10.22	13.26	8.99	3.78
30	15.76	8.14	8.92	5.89	---	21.28	17.03	6.49	10.53	12.59	8.82	3.73
31	15.18	---	9.25	5.91	---	22.14	---	6.30	---	12.02	8.69	---
TOTAL	736.59	273.05	240.28	235.23	158.56	380.99	781.22	359.66	324.07	493.93	366.90	166.91
MEAN	23.76	9.10	7.75	7.59	5.66	12.29	26.04	11.60	10.80	15.93	11.84	5.56
MAX	29.62	14.66	9.25	9.69	6.19	22.14	31.41	16.72	15.66	21.16	14.81	8.68
MIN	15.18	6.18	5.92	5.89	4.95	7.20	17.03	6.30	5.79	11.48	8.69	3.73

WTR YR 2005 TOTAL 4,517.39 MEAN 12.38 MAX 31.41 MIN 3.73

02319800 SUWANNEE RIVER AT DOWLING PARK, FL

LOCATION.--Lat 30° 14'41", long 83° 14'59", in NW1/ 4 sec. 8, T. 3 S., R. 11 E., Lafayette County, Hydrologic Unit 03110205, at bridge on County Road 250 at Dowling Park, and 112 mi upstream from mouth.

DRAINAGE AREA.--7,190 mi^2, approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--March 1950 to August 1954 and November 1975 to October 1977 (annual maximum discharge and gage-height), October 1996 to current year.

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

REMARKS.--Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 7, 1948, reached a stage of 61.46 ft, from floodmarks; discharge, 92,600 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22,100	14,000	7,710	8,360	5,480	6,040	20,600	16,100	5,920	10,200	11,100	8,030
2	23,500	13,500	8,010	8,520	5,490	6,700	21,600	15,900	5,760	10,900	10,800	7,990
3	24,700	13,000	8,170	8,600	5,500	7,090	22,500	15,600	5,630	11,300	10,500	7,880
4	25,700	12,500	8,210	8,570	5,520	7,330	23,500	15,300	5,910	11,700	10,400	7,710
5	26,700	12,000	8,190	8,450	5,560	7,540	24,300	15,100	6,670	12,000	e10,400	7,490
6	28,300	11,600	8,120	8,220	5,600	7,750	25,200	14,900	7,160	12,300	e11,000	7,210
7	29,600	11,100	7,940	7,920	5,610	7,970	26,000	14,700	7,500	12,500	e11,800	6,910
8	30,400	10,700	7,680	7,610	5,630	8,240	27,600	14,600	7,690	12,500	e12,400	6,630
9	30,800	10,200	7,450	7,340	5,630	8,580	30,100	14,300	7,650	12,400	12,900	6,360
10	30,500	9,650	7,270	7,100	5,590	8,930	32,500	13,900	7,610	12,400	13,200	6,110
11	29,500	9,190	7,080	6,900	5,510	9,090	34,700	13,500	7,750	12,700	13,400	5,860
12	27,900	8,790	6,940	6,710	5,430	9,040	36,400	13,100	8,220	13,400	13,500	5,630
13	26,500	8,460	6,820	6,550	5,340	8,920	37,300	12,700	8,930	14,200	13,400	5,420
14	25,800	8,150	6,750	6,410	5,240	8,790	37,100	12,100	9,860	15,200	13,200	5,220
15	25,300	7,890	6,770	6,400	5,150	8,620	36,300	11,600	10,800	16,200	13,100	5,020
16	24,600	7,670	6,880	6,560	5,100	8,540	35,000	11,000	11,600	17,000	12,800	4,850
17	23,900	7,470	7,030	6,640	5,080	8,830	33,500	10,400	12,300	17,800	12,500	4,690
18	23,200	7,260	7,110	6,670	5,060	9,500	31,800	9,870	13,000	18,500	12,000	4,540
19	22,400	7,050	6,980	6,710	5,030	10,100	29,800	9,370	13,600	19,000	11,400	4,390
20	21,800	6,840	6,640	6,770	4,990	10,600	27,500	8,920	13,900	19,400	10,900	4,230
21	21,100	6,610	6,270	6,790	4,930	11,000	25,900	8,540	14,000	19,400	10,400	4,100
22	20,400	6,380	5,990	6,740	4,840	11,300	24,900	8,180	13,900	19,100	9,950	4,010
23	19,700	6,180	5,820	6,600	4,760	11,600	24,000	7,860	13,500	18,400	9,560	3,940
24	19,100	6,040	5,660	6,400	4,700	12,400	22,800	7,590	12,600	17,500	9,200	3,870
25	18,400	5,940	5,590	6,220	4,650	13,300	21,600	7,330	11,800	16,500	8,870	3,820
26	17,800	5,950	5,650	6,040	4,620	14,700	20,400	7,070	11,100	15,500	8,640	3,780
27	17,100	6,080	6,120	5,870	4,690	15,900	19,200	6,820	10,500	14,500	8,510	3,720
28	16,400	6,340	6,850	5,700	5,100	17,000	18,100	6,620	9,930	13,600	8,440	3,680
29	15,800	6,770	7,400	5,570	---	17,900	17,200	6,450	9,550	12,700	8,370	3,610
30	15,200	7,280	7,820	5,480	---	18,900	16,500	6,270	9,620	12,000	8,230	3,550
31	14,600	---	8,130	5,450	---	19,800	---	6,100	---	11,400	8,090	---
MEAN	23,190	8,686	7,066	6,899	5,208	10,710	26,800	11,030	9,799	14,590	10,930	5,342
MAX	30,800	14,000	8,210	8,600	5,630	19,800	37,300	16,100	14,000	19,400	13,500	8,030
MIN	14,600	5,940	5,590	5,450	4,620	6,040	16,500	6,100	5,630	10,200	8,090	3,550
IN.	3.72	1.35	1.13	1.11	0.75	1.72	4.16	1.77	1.52	2.34	1.75	0.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	5,768	4,109	3,994	5,167	6,579	11,690	9,309	4,155	3,606	4,130	4,188	4,322
MAX	23,190	10,650	13,190	18,280	22,750	38,110	26,800	11,030	9,799	14,590	10,930	12,400
(WY)	(2005)	(1998)	(1998)	(1998)	(1998)	(1998)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	1,083	1,100	985	1,085	1,200	1,938	2,047	1,319	1,030	944	936	1,098
(WY)	(2003)	(2002)	(2002)	(2002)	(2002)	(2000)	(1999)	(2002)	(2000)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL MEAN	6,713		11,730		5,580	
HIGHEST ANNUAL MEAN					11,730	2005
LOWEST ANNUAL MEAN					1,487	2002
HIGHEST DAILY MEAN	30,800	Oct 9	37,300	Apr 13	53,100	Mar 20, 1998
LOWEST DAILY MEAN	1,480	Jun 9	3,550	Sep 30	875	Jul 23, 2002
ANNUAL SEVEN-DAY MINIMUM	1,510	Jun 6	3,720	Sep 24	896	Jul 19, 2002
MAXIMUM PEAK FLOW			37,400	Apr 13	53,500	Mar 20, 1998
MAXIMUM PEAK STAGE			50.57	Apr 13	54.07	Mar 20, 1998
INSTANTANEOUS LOW FLOW			3,520	Sep 30	859	Jul 23, 2002
ANNUAL RUNOFF (INCHES)	12.71		22.15		10.54	
10 PERCENT EXCEEDS	16,400		23,300		13,200	
50 PERCENT EXCEEDS	3,410		8,920		3,150	
90 PERCENT EXCEEDS	1,810		5,470		1,120	

e Estimated

02319800 SUWANNEE RIVER AT DOWLING PARK, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.43	36.33	30.00	30.70	27.46	28.14	42.21	38.28	28.01	32.64	33.47	30.35
2	44.56	35.86	30.32	30.87	27.47	28.89	43.03	38.03	27.83	33.31	33.18	30.31
3	45.61	35.38	30.50	30.95	27.49	29.32	43.78	37.81	27.68	33.73	32.90	30.18
4	46.50	34.92	30.54	30.93	27.52	29.58	44.56	37.54	28.00	34.08	---	30.00
5	47.22	34.44	30.52	30.79	27.57	29.81	45.30	37.31	28.85	34.43	---	29.76
6	47.81	33.98	30.44	30.55	27.61	30.05	46.03	37.12	29.40	34.71	---	29.45
7	48.24	33.55	30.25	30.23	27.64	30.29	46.78	37.00	29.77	34.87	---	29.12
8	48.51	33.09	29.97	29.90	27.65	30.58	47.58	36.83	29.98	34.87	---	28.81
9	48.62	32.58	29.72	29.60	27.65	30.94	48.39	36.54	29.94	34.77	35.23	28.51
10	48.53	32.05	29.52	29.34	27.61	31.31	49.15	36.20	29.89	34.80	35.56	28.23
11	48.20	31.57	29.32	29.11	27.51	31.47	49.80	35.85	30.05	35.07	35.77	27.95
12	47.69	31.16	29.16	28.91	27.40	31.42	50.30	35.48	30.56	35.72	35.84	27.68
13	47.15	30.80	29.03	28.72	27.28	31.30	50.55	35.04	31.31	36.50	35.76	27.43
14	46.61	30.47	28.95	28.57	27.16	31.16	50.50	34.54	32.26	37.38	35.59	27.19
15	46.12	30.19	28.96	28.56	27.03	30.98	50.26	33.99	33.20	38.32	35.42	26.96
16	45.56	29.96	29.09	28.73	26.98	30.89	49.91	33.41	34.02	39.09	35.18	26.76
17	44.95	29.74	29.25	28.83	26.95	31.19	49.47	32.83	34.71	39.73	34.84	26.57
18	44.31	29.52	29.34	28.86	26.92	31.90	48.95	32.27	35.34	40.34	34.38	26.38
19	43.68	29.28	29.20	28.90	26.89	32.51	48.31	31.76	35.89	40.84	33.84	26.20
20	43.15	29.04	28.82	28.97	26.84	33.03	47.55	31.30	36.24	41.14	33.30	26.00
21	42.58	28.79	28.41	28.99	26.75	33.40	46.71	30.89	36.34	41.17	32.79	25.83
22	42.01	28.53	28.09	28.94	26.64	33.67	45.83	30.51	36.23	40.89	32.36	25.73
23	41.45	28.31	27.90	28.77	26.52	34.03	44.97	30.17	35.83	40.32	31.96	25.64
24	40.89	28.14	27.70	28.56	26.45	34.75	44.03	29.87	35.01	39.51	31.58	25.55
25	40.33	28.03	27.60	28.35	26.39	35.67	43.02	29.59	34.17	38.57	31.24	25.49
26	39.75	28.04	27.69	28.15	26.34	36.92	41.98	29.30	33.50	37.70	31.00	25.43
27	39.15	28.19	28.23	27.95	26.44	38.08	40.98	29.02	32.88	36.82	30.86	25.36
28	38.54	28.49	29.06	27.75	26.98	39.03	40.06	28.80	32.34	35.90	30.79	25.30
29	37.95	28.96	29.67	27.58	---	39.88	39.26	28.61	31.95	35.05	30.71	25.22
30	37.38	29.53	30.12	27.47	---	40.70	38.63	28.41	32.02	34.40	30.56	25.14
31	36.82	---	30.45	27.43	---	41.48	---	28.22	---	33.85	30.41	---
MEAN	43.98	30.96	29.28	29.10	27.11	32.98	45.93	33.31	32.11	36.79	---	27.28
MAX	48.62	36.33	30.54	30.95	27.65	41.48	50.55	38.28	36.34	41.17	---	30.35
MIN	36.82	28.03	27.60	27.43	26.34	28.14	38.63	28.22	27.68	32.64	---	25.14

02320000 SUWANNEE RIVER AT LURAVILLE, FL

LOCATION.--Lat 30° 05'59", long 83° 10'18", in NE$^{1}/_{4}$ sec. 36, T. 4 S., R. 11 E., Suwannee County, Hydrologic Unit 03110205, at bridge on State Highway 51, 1.6 mi south of Luraville, 3.0 mi north of Mayo, and 97 mi upstream from mouth.

DRAINAGE AREA.--7,330 mi^2, approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--February 1927 to December 1937, March 1950 to October 1972 and October 1977 to September 1981 (annual maximum discharge and gage-height), October 1996 to current year.

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

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23,400	16,000	8,260	8,760	5,930	6,050	21,900	18,800	6,950	11,200	13,000	8,890
2	24,900	15,400	8,590	8,960	5,930	6,740	23,000	18,300	6,770	11,900	12,600	8,800
3	26,400	14,800	8,800	9,080	5,940	7,200	23,900	18,000	6,620	12,400	12,200	8,680
4	27,800	14,300	8,900	9,110	5,950	7,480	25,100	17,600	6,730	12,800	12,000	8,500
5	29,100	13,800	8,910	9,030	5,980	7,700	26,200	17,400	7,320	13,200	12,000	8,280
6	30,200	13,300	8,870	8,850	6,010	7,920	27,300	17,100	7,840	13,500	12,400	8,010
7	31,100	12,900	8,720	8,580	6,030	8,140	28,500	16,900	8,180	13,700	13,100	7,720
8	31,800	12,300	8,470	8,270	6,040	8,420	29,800	16,700	8,440	13,800	13,700	7,430
9	32,300	11,700	8,210	7,980	6,040	8,710	31,000	16,300	8,470	13,800	14,200	7,150
10	32,500	11,100	8,030	7,730	6,010	9,080	32,300	16,000	8,420	13,900	14,600	6,880
11	32,400	10,600	7,830	7,520	5,930	9,310	33,600	15,600	8,510	14,100	14,900	6,620
12	31,900	10,100	7,660	7,330	5,840	9,360	34,700	15,100	8,930	14,600	15,000	6,380
13	31,300	9,720	7,540	7,140	5,740	9,300	35,600	14,700	9,530	15,300	15,000	6,140
14	30,500	9,340	7,440	7,010	5,640	9,200	36,000	14,100	10,400	16,300	14,900	5,920
15	29,800	9,020	7,400	6,920	5,540	9,060	36,000	13,500	11,400	17,300	14,700	5,710
16	29,000	8,760	7,470	7,020	5,470	9,000	35,500	12,900	12,300	18,300	14,500	5,520
17	28,200	8,520	7,600	7,110	5,440	9,130	34,700	12,200	13,100	19,100	14,100	5,330
18	27,300	8,290	7,690	7,150	5,410	9,670	33,800	11,500	13,900	19,900	13,700	5,170
19	26,400	8,060	7,630	7,170	5,380	10,300	32,900	10,900	14,500	20,700	13,100	5,000
20	25,700	7,820	7,360	7,230	5,340	10,800	31,900	10,400	15,000	21,200	12,500	4,850
21	24,800	7,580	7,010	7,260	5,280	11,300	30,800	9,910	15,300	21,500	11,900	4,710
22	24,000	7,340	6,720	7,240	5,190	11,700	29,500	9,490	15,300	21,400	11,400	4,600
23	23,200	7,120	6,530	7,130	5,100	12,000	28,300	9,100	15,100	21,000	10,900	4,520
24	22,400	6,940	6,340	6,950	5,030	12,700	27,000	8,780	14,400	20,200	10,500	4,430
25	21,500	6,820	6,240	6,770	4,980	13,700	25,600	8,480	13,600	19,100	10,100	4,360
26	20,600	6,760	6,250	6,600	4,930	14,900	24,100	8,200	12,800	18,100	9,730	4,310
27	19,800	6,850	6,520	6,430	5,000	16,300	22,700	7,910	12,100	17,100	9,540	4,250
28	19,000	7,040	7,170	6,270	5,250	17,500	21,400	7,680	11,400	16,000	9,430	4,220
29	18,200	7,380	7,720	6,110	---	18,600	20,300	7,490	10,900	15,000	9,320	4,140
30	17,400	7,830	8,160	6,000	---	19,700	19,400	7,310	10,800	14,200	9,170	4,060
31	16,700	---	8,500	5,920	---	20,800	---	7,140	---	13,500	9,000	---
MEAN	26,120	9,916	7,695	7,440	5,584	11,020	28,760	12,760	10,830	16,260	12,360	6,019
MAX	32,500	16,000	8,910	9,110	6,040	20,800	36,000	18,800	15,300	21,500	15,000	8,890
MIN	16,700	6,760	6,240	5,920	4,930	6,050	19,400	7,140	6,620	11,200	9,000	4,060
IN.	4.14	1.52	1.22	1.18	0.80	1.75	4.41	2.02	1.66	2.58	1.96	0.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2005, BY WATER YEAR (WY)

MEAN	7,746	4,529	4,049	5,102	7,315	10,570	10,550	6,188	4,110	4,506	6,373	6,636
MAX	31,460	12,180	13,710	18,570	22,980	34,680	28,760	24,060	10,830	16,260	32,590	28,650
(WY)	(1929)	(1929)	(1998)	(1998)	(1998)	(1998)	(2005)	(1928)	(2005)	(2005)	(1928)	(1928)
MIN	1,236	1,316	1,173	1,176	1,380	1,969	2,248	1,359	1,101	1,112	1,160	1,220
(WY)	(2003)	(2000)	(2000)	(2000)	(2002)	(2000)	(1934)	(2002)	(2000)	(2000)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1927 - 2005	
ANNUAL MEAN	7,358		12,950		6,597	
HIGHEST ANNUAL MEAN					12,950	2005
LOWEST ANNUAL MEAN					1,673	2002
HIGHEST DAILY MEAN	32,500	Oct 10	36,000	Apr 14	66,000	Aug 24, 1928
LOWEST DAILY MEAN	1,690	Jun 9	4,060	Sep 30	1,050	Jun 20, 2000
ANNUAL SEVEN-DAY MINIMUM	1,700	Jun 7	4,250	Sep 24	1,070	Jun 14, 2000
MAXIMUM PEAK FLOW			36,100	Apr 14	90,000	Apr 8, 1948
MAXIMUM PEAK STAGE			43.88	Apr 14	53.50	Apr 8, 1948
INSTANTANEOUS LOW FLOW			4,030	Sep 30	1,040	Jun 28, 2002
ANNUAL RUNOFF (INCHES)	13.76		24.15		12.31	
10 PERCENT EXCEEDS	17,700		26,300		15,500	
50 PERCENT EXCEEDS	3,640		9,670		3,950	
90 PERCENT EXCEEDS	2,020		5,930		1,520	

02320000 SUWANNEE RIVER AT LURAVILLE, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.54	31.41	25.04	25.51	22.74	22.85	35.54	33.74	23.78	27.63	28.99	25.72
2	37.49	30.92	25.35	25.68	22.74	23.55	36.27	33.39	23.59	28.16	28.67	25.65
3	38.43	30.46	25.54	25.79	22.75	24.00	36.88	33.14	23.44	28.56	28.37	25.54
4	39.24	30.04	25.63	25.82	22.76	24.28	37.58	32.88	23.54	28.86	28.21	25.38
5	39.98	29.67	25.64	25.75	22.79	24.49	38.28	32.66	24.12	29.16	28.21	25.18
6	40.61	29.27	25.60	25.59	22.82	24.71	38.92	32.44	24.63	29.43	28.51	24.93
7	41.13	28.89	25.46	25.34	22.84	24.93	39.63	32.28	24.97	29.62	29.08	24.65
8	41.54	28.49	25.24	25.05	22.85	25.19	40.38	32.11	25.21	29.69	29.56	24.38
9	41.82	28.03	24.99	24.77	22.84	25.46	41.10	31.87	25.23	29.67	29.97	24.10
10	41.94	27.56	24.82	24.53	22.82	25.80	41.84	31.57	25.19	29.73	30.29	23.84
11	41.88	27.11	24.63	24.32	22.74	26.00	42.54	31.25	25.27	29.87	30.53	23.59
12	41.61	26.71	24.46	24.13	22.65	26.04	43.14	30.92	25.66	30.28	30.65	23.34
13	41.23	26.36	24.34	23.95	22.55	25.99	43.61	30.54	26.19	30.88	30.64	23.12
14	40.81	26.03	24.24	23.81	22.45	25.91	43.82	30.10	26.93	31.58	30.55	22.90
15	40.40	25.74	24.21	23.73	22.35	25.77	43.83	29.61	27.75	32.37	30.41	22.70
16	39.95	25.50	24.27	23.83	22.28	25.72	43.67	29.08	28.48	33.08	30.22	22.51
17	39.46	25.29	24.40	23.91	22.25	25.84	43.38	28.54	29.12	33.68	29.96	22.33
18	38.94	25.07	24.49	23.95	22.21	26.31	43.00	28.01	29.71	34.24	29.60	22.16
19	38.41	24.84	24.43	23.98	22.19	26.83	42.54	27.51	30.25	34.74	29.15	22.00
20	37.95	24.62	24.16	24.03	22.15	27.30	41.99	27.05	30.64	35.11	28.66	21.84
21	37.44	24.38	23.82	24.07	22.08	27.69	41.33	26.64	30.85	35.29	28.19	21.69
22	36.93	24.14	23.53	24.04	22.00	27.98	40.61	26.26	30.88	35.23	27.77	21.59
23	36.40	23.92	23.33	23.93	21.90	28.27	39.88	25.91	30.69	34.93	27.40	21.50
24	35.87	23.75	23.14	23.75	21.83	28.78	39.08	25.61	30.16	34.39	27.04	21.41
25	35.26	23.63	23.04	23.58	21.78	29.54	38.22	25.32	29.47	33.68	26.71	21.34
26	34.70	23.57	23.06	23.41	21.73	30.53	37.33	25.05	28.86	32.94	26.44	21.29
27	34.14	23.66	23.32	23.24	21.79	31.59	36.42	24.77	28.31	32.19	26.28	21.23
28	33.58	23.85	23.97	23.07	22.05	32.48	35.56	24.54	27.80	31.40	26.18	21.20
29	33.00	24.18	24.52	22.92	---	33.31	34.79	24.34	27.38	30.62	26.10	21.11
30	32.44	24.62	24.94	22.81	---	34.10	34.14	24.15	27.28	29.98	25.97	21.04
31	31.89	---	25.27	22.73	---	34.85	---	23.97	---	29.43	25.82	---
TOTAL	1,181.01	791.71	758.88	751.02	626.93	846.09	1,195.30	895.25	815.38	976.42	884.13	689.26
MEAN	38.10	26.39	24.48	24.23	22.39	27.29	39.84	28.88	27.18	31.50	28.52	22.98
MAX	41.94	31.41	25.64	25.82	22.85	34.85	43.83	33.74	30.88	35.29	30.65	25.72
MIN	31.89	23.57	23.04	22.73	21.73	22.85	34.14	23.97	23.44	27.63	25.82	21.04

WTR YR 2005 TOTAL 10,411.38 MEAN 28.52 MAX 43.83 MIN 21.04

02320500 SUWANNEE RIVER AT BRANFORD, FL

LOCATION.--Lat 29°57'20", long 82°55'40", in NE$^{1}/_{4}$ sec. 20, T. 6 S., R. 14 E., Suwannee County, Hydrologic Unit 03110205, near left bank on upstream side of bridge on U.S. Highway 27 at Branford, 10.2 mi upstream from Santa Fe River, and 75 mi upstream from mouth.

DRAINAGE AREA.--7,880 mi^2, approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--July 1931 to current year.

REVISED RECORDS.--WSP 1905: WDR FL-75-1: Drainage area. WDR FL-96-4:1995.

GAGE.--Water-stage recorder. Datum of gage is 4.81 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1928 reached a stage of 32.0 ft, from floodmark; discharge, 65,000 ft^3/s computed on basis of measured crest flow at Ellaville (station 02319500).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22,800	19,400	9,660	9,640	6,830	6,200	20,900	21,900	8,080	12,300	15,000	10,300
2	24,300	18,800	10,000	9,870	6,810	6,790	22,000	21,200	7,860	12,700	14,400	10,200
3	25,600	18,200	10,200	10,100	6,800	7,270	22,800	20,600	7,660	13,200	14,000	10,000
4	26,700	17,600	10,400	10,100	6,780	7,640	23,600	20,200	7,570	13,600	13,600	9,830
5	27,700	17,100	10,400	10,200	6,760	7,910	24,500	19,900	7,880	13,900	13,500	9,620
6	28,700	16,400	10,400	10,100	6,780	8,140	25,300	19,600	8,370	14,200	13,600	9,360
7	29,400	15,900	10,300	9,850	6,800	8,390	26,300	19,200	8,710	14,500	14,100	9,080
8	30,000	15,300	10,100	9,590	6,810	8,690	27,300	18,900	8,980	14,700	14,600	8,790
9	30,700	14,700	9,890	9,300	6,820	8,940	28,100	18,600	9,110	14,800	15,100	8,490
10	31,100	14,100	9,710	9,040	6,800	9,250	28,900	18,200	9,090	15,000	15,500	8,200
11	31,300	13,500	9,480	8,800	6,730	9,540	29,700	17,800	9,120	15,200	15,900	7,930
12	31,400	13,000	9,250	8,570	6,630	9,680	30,700	17,400	9,480	15,500	16,100	7,670
13	31,100	12,500	9,060	8,370	6,540	9,730	31,800	16,900	9,910	16,100	16,200	7,430
14	30,700	12,100	8,900	8,270	6,460	9,710	33,200	16,300	10,600	16,800	16,200	7,210
15	30,400	11,700	8,790	8,070	6,370	9,640	33,700	15,700	11,400	17,700	16,100	6,990
16	29,900	11,300	8,770	8,030	6,260	9,620	33,800	15,000	12,200	18,700	15,900	6,770
17	29,300	11,000	8,830	8,080	6,190	9,660	33,800	14,300	13,000	19,500	15,600	6,590
18	28,700	10,700	8,930	8,090	6,130	9,900	33,500	13,600	13,800	20,300	15,300	6,420
19	28,100	10,400	8,920	8,120	6,070	10,400	33,200	13,000	14,600	21,000	14,800	6,240
20	27,500	10,100	8,730	8,170	6,030	10,900	32,600	12,300	15,200	21,700	14,200	6,070
21	26,900	9,760	8,420	8,210	5,990	11,300	32,000	11,800	15,600	22,200	13,600	5,900
22	26,200	9,460	8,130	8,210	5,920	11,700	31,300	11,300	15,900	22,400	13,100	5,790
23	25,600	9,180	7,940	8,140	5,820	12,100	30,400	10,800	15,900	22,300	12,600	5,730
24	24,900	8,960	7,710	7,970	5,750	12,500	29,500	10,400	15,600	21,900	12,100	5,640
25	24,200	8,940	7,550	7,810	5,680	13,200	28,600	10,000	14,900	21,200	11,700	5,510
26	23,600	8,720	7,500	7,660	5,610	14,200	27,400	9,650	14,300	20,300	11,300	5,450
27	22,900	8,660	7,540	7,490	5,660	15,300	26,200	9,300	13,600	19,400	11,100	5,370
28	22,200	8,750	7,950	7,290	5,810	16,500	24,900	9,000	13,000	18,400	10,900	5,310
29	21,500	8,940	8,480	7,110	---	17,700	23,700	8,730	12,500	17,400	10,800	5,260
30	20,800	9,270	8,950	7,010	---	18,800	22,600	8,480	12,200	16,500	10,600	5,170
31	20,100	---	9,320	6,890	---	19,800	---	8,300	---	15,700	10,400	---
MEAN	26,910	12,480	9,039	8,521	6,344	11,000	28,410	14,790	11,540	17,390	13,800	7,277
MAX	31,400	19,400	10,400	10,200	6,830	19,800	33,800	21,900	15,900	22,400	16,200	10,300
MIN	20,100	8,660	7,500	6,890	5,610	6,200	20,900	8,300	7,570	12,300	10,400	5,170
MED	27,500	11,500	8,930	8,210	6,410	9,710	28,700	15,000	11,800	16,800	14,100	6,880
IN.	3.94	1.77	1.32	1.25	0.84	1.61	4.02	2.16	1.63	2.54	2.02	1.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

MEAN	5,609	4,425	4,714	6,331	8,960	11,800	11,760	7,280	5,358	5,319	6,112	6,042
MAX	26,910	29,380	28,130	21,830	28,370	36,930	49,040	24,020	18,120	17,390	19,810	21,340
(WY)	(2005)	(1948)	(1948)	(1948)	(1991)	(1998)	(1948)	(1973)	(1973)	(2005)	(1945)	(1964)
MIN	1,717	1,666	1,602	1,596	1,668	1,905	2,366	1,908	1,495	1,419	1,380	1,571
(WY)	(2003)	(1991)	(1991)	(2002)	(2002)	(1955)	(1955)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL MEAN	8,161		14,010		6,971	
HIGHEST ANNUAL MEAN					19,260	1948
LOWEST ANNUAL MEAN					1,950	1955
HIGHEST DAILY MEAN	31,400	Oct 12	33,800	Apr 16	82,800	Apr 11, 1948
LOWEST DAILY MEAN	2,240	Jun 13	5,170	Sep 30	1,330	Aug 9, 2002
ANNUAL SEVEN-DAY MINIMUM	2,260	Jun 8	5,390	Sep 24	1,340	Aug 7, 2002
MAXIMUM PEAK FLOW			34,000	Apr 16	83,900	Apr 11, 1948
MAXIMUM PEAK STAGE			26.68	Apr 16	34.07	Apr 11, 1948
INSTANTANEOUS LOW FLOW			5,120	Sep 30	1,320	Aug 9, 2002
ANNUAL RUNOFF (INCHES)	14.10		24.14		12.02	
10 PERCENT EXCEEDS	20,100		26,800		14,600	
50 PERCENT EXCEEDS	4,140		11,300		4,880	
90 PERCENT EXCEEDS	2,530		6,780		2,250	

02320500 SUWANNEE RIVER AT BRANFORD, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.82	19.37	12.43	12.41	9.85	9.20	20.22	21.23	11.98	15.22	16.95	13.51
2	22.50	18.98	12.71	12.60	9.83	9.81	20.84	20.85	11.77	15.51	16.59	13.41
3	23.07	18.61	12.91	12.75	9.82	10.29	21.28	20.55	11.57	15.84	16.28	13.29
4	23.57	18.24	13.01	12.82	9.80	10.64	21.74	20.30	11.48	16.10	16.05	13.15
5	24.02	17.88	13.05	12.83	9.79	10.90	22.18	20.17	11.77	16.33	15.96	12.97
6	24.43	17.48	13.05	12.75	9.80	11.11	22.62	19.98	12.22	16.56	16.04	12.75
7	24.74	17.09	12.97	12.59	9.82	11.33	23.13	19.78	12.51	16.75	16.32	12.51
8	25.01	16.70	12.82	12.37	9.84	11.61	23.61	19.61	12.74	16.87	16.68	12.25
9	25.27	16.29	12.62	12.13	9.84	11.82	24.00	19.43	12.85	16.94	16.99	11.99
10	25.44	15.85	12.47	11.91	9.82	12.09	24.37	19.21	12.83	17.05	17.26	11.73
11	25.54	15.43	12.28	11.70	9.75	12.33	24.78	18.98	12.86	17.16	17.48	11.47
12	25.53	15.04	12.08	11.49	9.65	12.45	25.23	18.72	13.14	17.36	17.63	11.22
13	25.43	14.69	11.93	11.32	9.56	12.49	25.71	18.42	13.50	17.72	17.69	10.99
14	25.24	14.32	11.79	11.23	9.47	12.47	26.37	18.07	14.01	18.15	17.67	10.77
15	25.08	13.99	11.69	11.05	9.38	12.41	26.55	17.68	14.62	18.67	17.60	10.55
16	24.85	13.71	11.67	11.01	9.27	12.40	26.63	17.26	15.22	19.19	17.48	10.33
17	24.60	13.47	11.73	11.05	9.19	12.43	26.60	16.80	15.79	19.66	17.31	10.13
18	24.31	13.23	11.81	11.07	9.13	12.63	26.50	16.34	16.33	20.07	17.06	9.96
19	23.99	12.99	11.80	11.09	9.06	12.99	26.34	15.88	16.86	20.46	16.74	9.78
20	23.73	12.75	11.63	11.13	9.02	13.38	26.11	15.44	17.23	20.78	16.37	9.58
21	23.44	12.51	11.37	11.17	8.97	13.75	25.84	15.03	17.49	21.04	15.99	9.40
22	23.08	12.26	11.10	11.18	8.89	14.05	25.53	14.67	17.66	21.13	15.62	9.27
23	22.75	12.03	10.93	11.11	8.79	14.33	25.18	14.30	17.65	21.08	15.27	9.19
24	22.42	11.84	10.71	10.96	8.71	14.66	24.80	13.99	17.45	20.88	14.94	9.09
25	22.06	11.82	10.56	10.80	8.63	15.21	24.38	13.67	17.05	20.52	14.63	8.95
26	21.71	11.63	10.51	10.66	8.54	15.90	23.86	13.36	16.60	20.06	14.35	8.86
27	21.33	11.58	10.55	10.50	8.61	16.73	23.32	13.07	16.15	19.57	14.15	8.77
28	20.95	11.66	10.94	10.31	8.77	17.54	22.71	12.80	15.76	19.00	14.01	8.70
29	20.57	11.82	11.42	10.14	---	18.27	22.12	12.56	15.38	18.43	13.90	8.63
30	20.19	12.10	11.83	10.03	---	18.96	21.59	12.35	15.17	17.88	13.77	8.53
31	19.77	---	12.15	9.91	---	19.60	---	12.17	---	17.39	13.64	---
TOTAL	726.44	435.36	368.52	354.07	261.60	413.78	724.14	522.67	437.64	569.37	498.42	321.73
MEAN	23.43	14.51	11.89	11.42	9.34	13.35	24.14	16.86	14.59	18.37	16.08	10.72
MAX	25.54	19.37	13.05	12.83	9.85	19.60	26.63	21.23	17.66	21.13	17.69	13.51
MIN	19.77	11.58	10.51	9.91	8.54	9.20	20.22	12.17	11.48	15.22	13.64	8.53

WTR YR 2005 TOTAL 5,633.74 MEAN 15.43 MAX 26.63 MIN 8.53

02321000 NEW RIVER NEAR LAKE BUTLER, FL

LOCATION.--Lat 29° 59'53", long 82° 16'27", in SW 1/ 4 sec. 2, T. 6. S., R. 20 E., Union County, Hydrologic Unit 03110206, near right bank on downstream side of bridge on State Highway 100, and 4.4 miles southeast of Lake Butler.

DRAINAGE AREA.--191 mi^2.

PERIOD OF RECORD.--January 1950 to September 1971, June 1973 to May 1977, periodic discharge measurements. October 1990 to September 1991, October 1992 to current year.

REVISED RECORDS.--WRD FLA. 1968 Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 83.8 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,850	63	110	102	51	165	576	58	15	509	62	82
2	1,250	59	101	96	50	155	796	58	17	443	77	68
3	1,180	56	93	89	53	131	1,030	54	18	765	83	59
4	2,180	52	85	82	61	120	854	51	29	1,060	148	49
5	2,610	50	77	74	64	112	721	118	25	928	220	39
6	2,430	47	70	68	61	101	581	225	22	762	283	34
7	1,850	45	64	63	55	87	537	233	19	628	271	40
8	1,220	42	59	58	51	81	1,130	200	36	492	219	56
9	825	39	55	53	48	80	1,100	162	34	366	180	67
10	589	36	53	49	46	76	956	130	21	310	136	65
11	444	34	53	46	42	67	802	106	21	318	102	58
12	347	33	51	44	39	58	645	97	103	399	80	49
13	279	32	47	41	35	51	824	93	242	399	64	39
14	237	31	44	63	32	45	886	76	344	382	52	32
15	222	30	41	111	31	41	636	57	351	299	44	26
16	218	29	38	124	30	59	492	44	247	240	37	21
17	205	27	36	110	29	140	383	36	192	190	33	18
18	183	26	35	95	27	191	298	34	147	149	28	15
19	162	25	34	87	25	192	241	36	117	120	25	14
20	149	24	33	80	23	179	200	29	92	99	22	12
21	139	23	31	74	22	166	165	25	74	83	20	13
22	127	23	30	68	21	152	138	24	61	73	18	14
23	115	22	32	63	21	140	118	21	55	66	17	17
24	105	23	39	57	21	127	102	19	48	57	16	25
25	95	81	50	51	22	357	87	17	44	55	15	23
26	88	115	84	47	23	1,620	78	15	44	49	15	20
27	81	102	115	43	42	1,680	80	13	42	45	30	17
28	74	107	119	41	117	1,690	78	11	49	40	69	16
29	72	123	112	38	---	1,460	70	10	120	36	87	14
30	71	120	108	44	---	1,060	60	9.1	296	38	98	13
31	67	---	106	50	---	756	---	11	---	51	92	---
MEAN	628	50.6	64.7	68.1	40.8	366	489	66.8	97.5	305	85.3	33.8
MAX	2,610	123	119	124	117	1,690	1,130	233	351	1,060	283	82
MIN	67	22	30	38	21	41	60	9.1	15	36	15	12
IN.	3.79	0.30	0.39	0.41	0.22	2.21	2.86	0.40	0.57	1.84	0.51	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2005, BY WATER YEAR (WY)

MEAN	236	43.8	105	123	258	272	135	91.5	88.7	144	258	271
MAX	1,461	459	781	607	1,836	1,491	1,014	801	587	519	1,166	1,845
(WY)	(1993)	(1970)	(1954)	(1970)	(1998)	(1959)	(1991)	(1959)	(2003)	(1950)	(2003)	(1964)
MIN	1.53	0.37	1.54	3.23	2.80	3.17	2.52	0.05	0.52	1.06	1.32	0.73
(WY)	(1991)	(2000)	(2000)	(2000)	(2001)	(2000)	(1956)	(2000)	(1998)	(1999)	(1999)	(1999)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1950 - 2005	
ANNUAL MEAN	201		193		169	
HIGHEST ANNUAL MEAN					457	1970
LOWEST ANNUAL MEAN					9.66	1962
HIGHEST DAILY MEAN	5,170	Sep 10	2,610	Oct 5	10,400	Sep 13, 1964
LOWEST DAILY MEAN	0.01	Jun 2	9.1	May 30	0.00	May 16, 2000
ANNUAL SEVEN-DAY MINIMUM	0.03	May 29	12	May 26	0.00	May 16, 2000
MAXIMUM PEAK FLOW			2,740	Oct 4	11,400	Sep 12, 1964
MAXIMUM PEAK STAGE			9.81	Oct 4	15.33	Sep 12, 1964
INSTANTANEOUS LOW FLOW			8.4	May 30	0.00	May 16, 2000
ANNUAL RUNOFF (INCHES)	14.33		13.70		12.00	
10 PERCENT EXCEEDS	226		520		423	
50 PERCENT EXCEEDS	20		65		30	
90 PERCENT EXCEEDS	1.5		21		2.7	

02321500 SANTA FE RIVER AT WORTHINGTON SPRINGS, FL

LOCATION.--Lat 29°55'18", long 82°25'35", in SE$^{1}/_{4}$ sec. 32, T. 6 S., R. 19 E., Alachua County, Hydrologic Unit 03110206, near center of span on downstream side of bridge on State Highway 121, 0.5 mi south of Worthington Springs, 0.8 mi downstream from New River, and 51 mi upstream from mouth.

DRAINAGE AREA.--575 mi^2.

PERIOD OF RECORD.--October 1931 to current year. Published as "near Worthington" prior to October 1965. Monthly discharge only for October 1931, published in WSP 1304.

REVISED RECORDS.--WSP 2105: WDR FL-76-4: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 42.74 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Jan. 16, 1939, nonrecording gage at site 0.2 mi downstream at present datum; Jan. 16, 1939 to July 23, 1953, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Records do not include diversions during periods of high stages from Santa Fe Lake to Lochloosa Creek in St. Johns River Basin. Maximum discharge, 5,160 ft^3/s, Oct. 1, maximum gage height, 20.42 ft, stage falling, peak occurred Sept. 28, 2004.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,710	412	318	203	138	281	2,070	314	92	954	395	338
2	3,810	391	301	194	136	279	1,980	301	108	1,180	359	356
3	3,260	369	279	185	153	278	2,000	282	105	1,390	333	362
4	2,920	348	257	176	160	275	2,040	296	170	1,620	364	304
5	3,170	332	239	166	156	254	1,980	612	260	1,920	395	241
6	3,630	316	225	156	150	228	1,770	1,110	222	2,000	498	196
7	3,490	303	211	146	143	206	1,620	1,240	170	1,810	589	185
8	3,100	291	198	137	135	218	1,800	1,140	137	1,570	656	182
9	2,570	278	185	128	125	253	2,060	997	144	1,370	695	173
10	2,100	262	163	121	116	229	2,310	828	172	1,350	678	170
11	1,740	249	166	114	109	203	2,180	662	214	1,470	564	162
12	1,510	238	152	109	102	180	1,970	568	283	1,520	475	147
13	1,340	228	135	103	93	157	1,780	545	413	1,520	387	128
14	1,180	217	122	150	85	137	1,670	489	570	1,420	317	108
15	1,100	207	108	251	81	121	1,720	388	942	1,300	264	90
16	1,060	198	98	268	78	144	1,570	302	1,090	1,300	226	75
17	983	188	91	270	75	298	1,330	239	1,100	1,270	195	64
18	911	179	86	264	71	352	1,140	198	988	1,150	169	56
19	842	170	81	239	64	363	976	174	820	956	146	49
20	774	162	75	214	59	365	831	155	652	746	127	43
21	710	144	70	194	55	353	698	136	528	586	113	40
22	650	125	66	181	52	335	592	118	442	501	102	44
23	600	115	69	176	51	322	531	107	396	451	112	64
24	567	114	90	166	51	310	476	101	355	424	164	71
25	538	263	111	152	55	536	422	94	308	376	181	64
26	509	325	195	139	64	2,000	381	81	278	345	165	56
27	481	328	245	128	98	3,180	386	70	255	323	157	49
28	456	353	247	118	250	3,550	369	62	277	294	167	42
29	471	356	245	110	---	3,260	337	54	363	265	205	39
30	460	334	236	126	---	2,900	311	47	615	271	245	37
31	435	---	218	141	---	2,470	---	53	---	276	308	---
MEAN	1,615	260	170	169	104	775	1,310	379	416	1,030	315	131
MAX	4,710	412	318	270	250	3,550	2,310	1,240	1,100	2,000	695	362
MIN	435	114	66	103	51	121	311	47	92	265	102	37
IN.	3.24	0.50	0.34	0.34	0.19	1.56	2.54	0.76	0.81	2.07	0.63	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005, BY WATER YEAR (WY)

MEAN	524	185	245	356	592	656	431	176	262	328	598	718
MAX	3,043	1,788	1,801	1,607	4,161	3,303	1,927	1,716	3,646	1,459	2,137	4,033
(WY)	(1993)	(1948)	(1954)	(1970)	(1998)	(1959)	(1973)	(1959)	(1934)	(1946)	(1978)	(1964)
MIN	4.00	2.98	4.00	5.12	5.44	13.7	6.41	0.47	2.30	9.05	9.86	10.3
(WY)	(1932)	(1932)	(1932)	(1932)	(1932)	(2000)	(1935)	(2001)	(2002)	(1981)	(1954)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1932 - 2005	
ANNUAL MEAN	474		560		422	
HIGHEST ANNUAL MEAN					1,163	1948
LOWEST ANNUAL MEAN					33.2	2000
HIGHEST DAILY MEAN	7,810	Sep 10	4,710	Oct 1	19,000	Sep 13, 1964
LOWEST DAILY MEAN	0.00	May 31	37	Sep 30	0.00	May 20, 2000
ANNUAL SEVEN-DAY MINIMUM	0.04	May 28	51	Sep 24	0.00	May 30, 2000
MAXIMUM PEAK FLOW			3,610	Mar 28	20,000	Sep 13, 1964
MAXIMUM PEAK STAGE			19.11	Mar 28	28.40	Sep 13, 1964
INSTANTANEOUS LOW FLOW			35	Sep 30	0.00	May 19, 2000
ANNUAL RUNOFF (INCHES)	11.22		13.23		9.96	
10 PERCENT EXCEEDS	1,070		1,590		1,110	
50 PERCENT EXCEEDS	75		265		134	
90 PERCENT EXCEEDS	5.2		81		16	

02321500 SANTA FE RIVER AT WORTHINGTON SPRINGS, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.09	13.20	12.44	11.35	10.62	12.11	17.41	12.18	9.76	15.22	12.48	12.02
2	19.37	13.03	12.29	11.26	10.59	12.09	17.29	12.07	10.01	15.72	12.19	12.17
3	18.87	12.87	12.09	11.16	10.80	12.08	17.32	11.90	9.97	16.12	11.98	12.22
4	18.54	12.69	11.89	11.06	10.88	12.06	17.37	12.01	10.75	16.50	12.23	11.72
5	18.79	12.56	11.71	10.95	10.83	11.86	17.28	14.09	11.69	16.94	12.48	11.14
6	19.22	12.42	11.57	10.84	10.76	11.61	16.98	15.77	11.33	17.03	13.24	10.69
7	19.10	12.31	11.44	10.72	10.68	11.39	16.75	16.08	10.78	16.74	13.86	10.57
8	18.72	12.20	11.30	10.61	10.58	11.50	17.02	15.85	10.39	16.35	14.16	10.54
9	18.17	12.08	11.16	10.50	10.45	11.85	17.39	15.51	10.47	15.97	14.29	10.43
10	17.59	11.94	10.91	10.40	10.33	11.61	17.72	15.05	10.80	15.92	14.23	10.41
11	17.10	11.82	10.95	10.31	10.24	11.35	17.56	14.54	11.25	16.16	13.69	10.31
12	16.75	11.71	10.79	10.24	10.14	11.11	17.27	14.09	11.90	16.27	13.07	10.13
13	16.46	11.60	10.58	10.16	10.02	10.85	17.00	13.94	12.99	16.25	12.41	9.90
14	16.16	11.50	10.41	10.74	9.90	10.60	16.83	13.55	14.06	16.06	11.84	9.63
15	15.97	11.40	10.23	11.83	9.84	10.41	16.90	12.79	15.36	15.82	11.37	9.37
16	15.87	11.30	10.08	11.99	9.79	10.68	16.67	12.07	15.74	15.82	11.00	9.15
17	15.69	11.20	9.99	12.01	9.74	12.26	16.25	11.49	15.75	15.77	10.68	8.97
18	15.51	11.09	9.91	11.95	9.66	12.72	15.84	11.08	15.48	15.51	10.39	8.81
19	15.32	10.99	9.84	11.72	9.56	12.82	15.45	10.82	15.03	15.03	10.13	8.69
20	15.12	10.90	9.74	11.46	9.47	12.83	15.07	10.60	14.49	14.44	9.89	8.58
21	14.92	10.69	9.66	11.26	9.39	12.73	14.66	10.37	13.82	13.83	9.71	8.50
22	14.73	10.46	9.58	11.12	9.34	12.58	14.24	10.14	13.21	13.26	9.56	8.59
23	14.52	10.33	9.64	11.07	9.31	12.47	13.84	10.0	12.86	12.91	9.69	8.97
24	14.31	10.31	9.97	10.95	9.31	12.37	13.46	9.91	12.53	12.70	10.34	9.09
25	14.11	11.92	10.27	10.79	9.39	13.58	13.06	9.80	12.13	12.33	10.53	8.97
26	13.91	12.50	11.26	10.63	9.55	17.35	12.74	9.61	11.86	12.08	10.35	8.82
27	13.71	12.52	11.78	10.50	10.05	18.72	12.78	9.44	11.65	11.89	10.26	8.68
28	13.53	12.73	11.79	10.36	11.81	19.05	12.64	9.29	11.81	11.64	10.37	8.56
29	13.64	12.76	11.77	10.26	---	18.77	12.38	9.15	12.49	11.37	10.79	8.48
30	13.56	12.58	11.68	10.46	---	18.40	12.16	9.01	14.14	11.43	11.18	8.44
31	13.38	---	11.51	10.65	---	17.92	---	9.13	---	11.47	11.76	---
TOTAL	502.73	355.61	338.23	339.31	283.03	407.73	469.33	371.33	374.50	454.55	360.15	292.55
MEAN	16.22	11.85	10.91	10.95	10.11	13.15	15.64	11.98	12.48	14.66	11.62	9.75
MAX	20.09	13.20	12.44	12.01	11.81	19.05	17.72	16.08	15.75	17.03	14.29	12.22
MIN	13.38	10.31	9.58	10.16	9.31	10.41	12.16	9.01	9.76	11.37	9.56	8.44

WTR YR 2005 TOTAL 4,549.05 MEAN 12.46 MAX 20.09 MIN 8.44

02322049 BAD DOG RUN NEAR ALACHUA, FL

LOCATION.--Lat 29°49'32", long 82°28'06", in NE 1/4 sec. 1, T.8S., R.18E., Alachua County, Hydrologic Unit 03110206, at upstream side of culvert at County Road 239, and 2.6 mi northeast of Alachua.

DRAINAGE AREA.--0.49 mi^2.

PERIOD OF RECORD.--October 1995 to September 1996, October 1996 to September 1997 (fragmentary), October 1997 to current year.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.10	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	0.98	0.00	0.00	0.00	e0.00	0.00
3	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
4	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	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	0.09	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.34	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	1.1	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e2.6	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.57	e1.0	0.00	0.00
14	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00	e0.48	e0.00	0.00	0.00
15	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	e0.08	e0.00	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	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	2.4	0.00	0.00	0.00	2.7	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.78	1.4	0.00	0.00	2.9	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.52	0.00	0.00	0.91	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	0.00	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	---	0.05	0.00	---
MEAN	0.01	0.11	0.06	0.05	0.00	0.21	0.05	0.00	0.04	0.15	0.00	0.00
MAX	0.16	2.4	1.4	0.91	0.00	2.9	0.98	0.00	0.57	2.6	0.00	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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	0.13	0.01	0.04	0.02	0.40	0.28	0.03	0.00	0.12	0.18	0.07	0.26
MAX	1.02	0.11	0.25	0.15	1.93	1.81	0.18	0.00	0.80	1.49	0.60	2.37
(WY)	(2004)	(2005)	(2003)	(2003)	(2003)	(2003)	(1997)	(1996)	(2003)	(1996)	(2003)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1996)	(1996)	(1996)	(1997)	(1996)	(1997)	(1998)	(1998)	(1998)	(2000)	(1996)	(1996)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL MEAN	0.24		0.06		0.13	
HIGHEST ANNUAL MEAN					0.46	2003
LOWEST ANNUAL MEAN					0.00	1999
HIGHEST DAILY MEAN	20	Sep 7	2.9	Mar 26	36	Jul 6, 1996
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 5	0.00	Oct 1, 1995
MAXIMUM PEAK FLOW			11	Nov 25	176	Jul 6, 1996
MAXIMUM PEAK STAGE			14.08	Nov 25	16.62	Jul 6, 1996
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1995
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

02322500 SANTA FE RIVER NEAR FORT WHITE, FL

LOCATION.--Lat 29°50'55", long 82°42'55", in SE$^{1}/_{4}$ sec. 28, T. 7 S., R. 16 E., Gilchrist County, Hydrologic Unit 03110206, on left bank 2.1 mi upstream from bridge on State Highway 47, 5.1 mi south of Fort White, and 18 mi upstream from mouth.

DRAINAGE AREA.--1,017 mi^2.

PERIOD OF RECORD.--October 1927 to January 1930, June 1932 to current year.

REVISED RECORDS.--WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 20.86 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to June 3, 1932, nonrecording gage at several sites within 200 ft of present site at various datums. Oct. 1, 1947 to Feb. 10, 1949, auxiliary nonrecording gage and since Feb. 11, 1949, auxiliary water-stage recorder at bridge on U.S. Highway 129, 16 mi downstream from base gage at datum 3.5 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,130	2,720	1,860	1,530	1,260	1,150	3,200	2,120	1,360	1,780	1,780	1,420
2	7,230	2,680	1,850	1,530	1,260	1,170	3,150	2,070	1,360	1,900	1,780	1,430
3	6,980	2,650	1,840	1,530	1,270	1,210	3,040	2,030	1,350	2,050	1,780	1,440
4	6,530	2,590	1,820	1,520	1,260	1,240	2,990	2,000	1,340	2,160	1,760	1,440
5	6,090	2,560	1,800	1,520	1,250	1,250	2,980	2,030	1,340	2,220	1,750	1,430
6	5,720	2,510	1,780	1,510	1,240	1,260	2,970	2,100	1,360	2,310	1,770	1,410
7	5,500	2,470	1,760	1,490	1,250	1,270	2,950	2,150	1,390	2,380	1,790	1,400
8	5,410	2,440	1,730	1,460	1,240	1,300	2,950	2,210	1,390	2,420	1,830	1,390
9	5,350	2,400	1,710	1,430	1,240	1,270	2,930	2,260	1,370	2,430	1,860	1,370
10	5,240	2,370	e1,690	1,420	1,230	1,280	2,960	2,270	1,360	2,450	1,900	1,350
11	5,060	2,330	e1,660	1,410	1,210	1,280	2,970	2,250	1,380	2,440	1,920	1,340
12	4,820	2,280	e1,630	1,400	1,210	1,260	2,980	2,210	1,410	2,440	1,920	1,330
13	4,570	2,230	e1,610	1,390	1,200	1,250	2,990	2,150	1,420	2,480	1,900	1,330
14	4,350	2,160	1,590	1,390	1,200	1,230	2,990	2,110	1,510	2,490	e1,850	1,310
15	4,180	2,110	1,570	1,360	1,190	1,220	2,940	2,070	1,600	2,470	e1,800	1,300
16	3,970	2,070	1,550	1,380	1,180	1,230	2,890	2,020	1,700	2,420	1,750	1,290
17	3,780	2,040	1,540	1,390	1,170	1,230	2,860	1,960	1,820	2,380	1,710	1,280
18	3,630	2,010	1,530	1,390	1,150	1,240	2,820	1,910	1,930	2,340	1,670	1,270
19	3,480	1,970	1,520	1,400	1,140	1,270	2,770	1,840	2,000	2,300	1,640	1,260
20	3,400	1,920	1,480	1,400	1,140	1,310	2,700	1,770	1,990	2,250	1,600	1,250
21	3,330	1,890	1,460	1,390	1,140	1,330	2,640	1,730	1,970	2,200	1,560	1,250
22	3,250	1,850	1,450	1,380	1,140	1,350	2,590	1,670	1,960	2,160	1,520	1,260
23	3,180	1,820	1,450	1,350	1,130	1,370	2,560	1,610	1,910	2,110	1,480	1,250
24	3,120	1,820	1,430	1,330	1,130	1,360	2,510	1,570	1,880	2,060	1,450	1,250
25	3,060	1,860	1,430	1,330	1,120	1,400	2,440	1,530	1,840	2,020	1,440	1,240
26	2,990	1,820	1,450	1,330	1,110	1,550	2,370	1,490	1,800	1,970	1,450	1,240
27	2,920	1,850	1,430	1,320	1,150	2,010	2,340	1,450	1,780	1,930	1,440	1,240
28	2,870	1,870	1,460	1,280	1,150	2,510	2,290	1,430	1,770	1,900	1,430	1,230
29	2,850	1,860	1,500	1,280	---	2,840	2,220	1,410	1,710	1,880	1,410	1,230
30	2,800	1,860	1,520	1,290	---	3,110	2,160	1,390	1,730	1,840	1,410	1,220
31	2,760	---	1,530	1,270	---	3,210	---	1,380	---	1,820	1,410	---
MEAN	4,373	2,167	1,601	1,400	1,191	1,515	2,772	1,877	1,624	2,194	1,670	1,315
MAX	7,230	2,720	1,860	1,530	1,270	3,210	3,200	2,270	2,000	2,490	1,920	1,440
MIN	2,760	1,820	1,430	1,270	1,110	1,150	2,160	1,380	1,340	1,780	1,410	1,220
IN.	4.96	2.38	1.82	1.59	1.22	1.72	3.04	2.13	1.78	2.49	1.89	1.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

MEAN	1,792	1,376	1,264	1,378	1,575	1,823	1,705	1,385	1,302	1,379	1,654	1,924
MAX	4,373	3,840	2,778	3,415	5,616	7,135	4,668	3,409	4,063	2,728	3,545	6,344
(WY)	(2005)	(1948)	(1965)	(1942)	(1998)	(1998)	(1948)	(1959)	(1959)	(1972)	(1928)	(1964)
MIN	730	636	543	496	480	537	564	500	495	544	543	628
(WY)	(1956)	(2002)	(2001)	(2001)	(2001)	(2001)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL MEAN	1,632		1,981		1,545	
HIGHEST ANNUAL MEAN					3,112	1948
LOWEST ANNUAL MEAN					589	2002
HIGHEST DAILY MEAN	9,410	Sep 12	7,230	Oct 2	16,900	Sep 16, 1964
LOWEST DAILY MEAN	708	Jul 12	1,110	Feb 26	446	Jun 4, 2002
ANNUAL SEVEN-DAY MINIMUM	712	Jul 9	1,130	Feb 20	456	May 29, 2002
MAXIMUM PEAK FLOW			7,320	Oct 1	17,000	Sep 16, 1964
MAXIMUM PEAK STAGE			9.01	Oct 2	15.34	Sep 16, 1964
INSTANTANEOUS LOW FLOW			1,110	Feb 26	440	Jun 2, 2002
ANNUAL RUNOFF (INCHES)	21.85		26.45		20.64	
10 PERCENT EXCEEDS	3,800		2,970		2,560	
50 PERCENT EXCEEDS	883		1,730		1,270	
90 PERCENT EXCEEDS	734		1,240		831	

e Estimated

02322685 ICHETUCKNEE HEAD SPRING NEAR HILDRETH, FL

LOCATION.--Lat 29°59'02", long 82°45'43", in NE1/4 sec.12, T.6 S., R.15 E., Suwannee County, Hydrologic Unit 03110206, on the north bank at head of Ichetucknee River in Ichetucknee Springs State Park, 3.3 mi upstream from bridge on U.S. Highway 27, 3.4 mi northeast of Hildreth, and 5.0 mi northwest of Fort White.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--February 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 21.76 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder at bridge on U.S. Highway 27, 3.3 mi downstream from base gage at National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	54	57	56	56	56	e61	69	68	69	63	66
2	42	54	57	56	56	56	e60	71	68	69	63	66
3	42	55	57	56	56	56	e59	72	68	69	63	66
4	42	55	57	56	56	56	e58	72	68	68	64	66
5	42	55	57	56	56	57	e56	73	68	68	64	66
6	43	56	57	56	56	57	e55	73	68	67	64	66
7	44	56	57	56	56	57	e53	73	68	67	64	66
8	45	56	57	56	56	57	e49	73	68	66	64	66
9	47	56	57	56	56	57	e46	73	68	66	64	66
10	49	57	57	56	56	57	42	73	68	66	64	66
11	51	57	57	56	56	57	39	73	68	65	64	66
12	52	57	57	56	56	57	39	72	68	65	64	66
13	52	57	57	56	56	57	39	73	68	65	64	66
14	52	58	57	56	56	57	40	73	68	64	64	66
15	52	58	57	56	56	57	42	73	68	63	64	66
16	51	58	57	56	56	57	44	73	68	62	64	66
17	50	58	57	56	56	57	46	73	68	61	64	66
18	49	58	57	55	56	58	47	73	68	60	64	66
19	49	58	57	56	56	58	48	72	68	60	65	66
20	49	58	56	56	56	59	48	72	68	59	65	66
21	50	58	56	56	56	59	46	71	67	58	65	66
22	50	58	56	56	56	60	47	71	67	57	65	66
23	50	58	56	56	56	61	50	70	67	57	65	66
24	50	58	56	56	56	61	52	69	67	57	65	66
25	50	58	56	56	56	62	53	69	68	57	65	66
26	50	58	56	56	56	62	57	69	68	58	65	66
27	51	58	56	56	57	63	60	69	69	59	65	65
28	51	58	56	56	57	63	63	69	69	60	66	65
29	52	58	56	56	---	e62	65	68	69	61	66	65
30	53	57	56	56	---	e62	68	68	69	61	66	65
31	53	---	56	56	---	e61	---	68	---	62	66	---
TOTAL	1,507	1,710	1,755	1,735	1,570	1,816	1,532	2,210	2,040	1,946	1,998	1,976
MEAN	48.6	57.0	56.6	56.0	56.1	58.6	51.1	71.3	68.0	62.8	64.5	65.9
MAX	53	58	57	56	57	63	68	73	69	69	66	66
MIN	42	54	56	55	56	56	39	68	67	57	63	65
MED	50	58	57	56	56	57	50	72	68	62	64	66
AC-FT	2,990	3,390	3,480	3,440	3,110	3,600	3,040	4,380	4,050	3,860	3,960	3,920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	38.1	40.7	40.6	40.6	41.4	40.7	39.3	44.1	42.7	40.9	41.5	45.3
MAX	48.6	57.0	56.6	56.0	56.1	58.6	51.1	71.3	68.0	62.8	64.5	65.9
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	22.9	23.0	23.7	25.5	27.5	21.5	22.8	22.3	21.7	21.8	22.0	22.4
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	16,448		21,795			
ANNUAL MEAN	44.9		59.7		45.2	
HIGHEST ANNUAL MEAN					59.7	2005
LOWEST ANNUAL MEAN					34.0	2003
HIGHEST DAILY MEAN	58	Sep 21	73	May 5	73	May 5, 2005
LOWEST DAILY MEAN	39	Jul 25	39	Apr 11	20	Feb 7, 2002
ANNUAL SEVEN-DAY MINIMUM	39	Jul 25	41	Apr 10	20	Feb 7, 2002
MAXIMUM PEAK FLOW			74	May 5	74	May 5, 2005
MAXIMUM PEAK STAGE			5.08	Apr 17	5.08	Apr 17, 2005
INSTANTANEOUS LOW FLOW			36	Apr 12	20	Feb 6, 2002
ANNUAL RUNOFF (AC-FT)	32,620		43,230		32,750	
10 PERCENT EXCEEDS	57		68		65	
50 PERCENT EXCEEDS	42		58		42	
90 PERCENT EXCEEDS	40		51		26	

e Estimated

02322687 CEDAR HEAD SPRING NEAR HILDRETH, FL

LOCATION.--Lat 29°58'59", long 82°45'32", in NW1/4 sec.7, T.6 S., R.16 E., Columbia County, Hydrologic Unit 03110206, on right bank of pool in Ichetucknee Springs State Park, about 1,000 ft upstream from Blue Hole Spring, 3.2 mi upstream from bridge on U.S. Highway 27, and 3.4 mi northeast of Hildreth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--1975 (miscellaneous discharge measurement), February 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 13.84 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder at bridge on U.S. Highway 27, 3.2 mi downstream from base gage, at National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	11	7.0	7.5	8.2	9.5	e11	12	e12	e12	13	14
2	9.3	11	7.0	7.5	8.3	9.5	e11	13	e12	e12	13	14
3	9.5	11	7.0	7.6	8.3	9.5	e10	13	e12	e12	13	14
4	9.8	11	7.0	7.6	8.3	9.6	e9.6	14	e12	e12	13	14
5	10	11	7.0	7.6	8.3	9.6	e9.1	e14	e11	e12	13	14
6	10	11	7.0	7.6	8.4	9.6	e8.8	e14	e11	e13	13	14
7	10	10	7.1	7.6	8.5	9.7	e8.6	e13	e11	13	13	14
8	11	10	7.1	7.6	8.5	9.8	e8.5	13	e11	e13	13	14
9	11	9.8	7.2	7.6	8.5	9.8	e8.4	13	e11	13	13	14
10	11	9.6	7.4	7.6	8.6	9.8	8.2	14	e12	13	13	14
11	11	9.4	7.3	7.7	8.6	9.8	8.4	14	e12	13	13	14
12	12	9.2	7.3	7.7	8.6	9.9	8.7	13	e12	13	13	14
13	12	9.0	7.3	7.7	8.7	9.9	9.2	13	e12	13	13	14
14	11	8.7	7.2	7.8	8.8	10	9.5	13	e12	13	13	14
15	11	8.5	7.2	7.7	8.8	10	9.9	13	e12	13	13	14
16	11	8.3	7.2	7.8	8.9	10	10	13	e12	13	13	14
17	11	8.1	7.3	7.7	8.9	10	10	13	e12	12	13	14
18	11	7.9	7.3	7.7	8.9	10	10	e13	e12	12	13	14
19	10	7.7	7.3	7.8	8.9	10	11	e13	e12	12	13	14
20	10	7.6	7.3	7.8	9.0	10	10	12	e12	11	14	14
21	10	7.4	7.3	7.8	9.1	10	10	12	e12	11	14	15
22	9.9	7.2	7.3	8.0	9.1	10	10	12	e12	11	14	14
23	9.7	7.1	7.5	8.0	9.2	11	10	12	e12	10	14	14
24	9.6	7.1	7.4	8.0	9.3	11	9.9	12	e12	11	14	14
25	9.5	7.2	7.4	8.1	9.2	11	9.8	12	e12	11	14	14
26	9.5	7.0	7.5	8.1	9.3	11	9.9	12	e12	12	14	14
27	9.5	7.0	7.4	8.2	9.4	11	10	12	e12	12	14	14
28	9.6	7.1	7.4	8.1	9.4	11	10	12	e12	12	14	14
29	9.8	7.0	7.4	8.2	---	12	11	12	e12	13	14	14
30	10	7.0	7.4	8.3	---	12	12	12	e12	13	14	13
31	10	---	7.5	8.2	---	e11	---	e12	---	13	14	---
TOTAL	318.0	260.9	225.0	242.2	246.0	317.0	292.5	395	355	379	415	420
MEAN	10.3	8.70	7.26	7.81	8.79	10.2	9.75	12.7	11.8	12.2	13.4	14.0
MAX	12	11	7.5	8.3	9.4	12	12	14	12	13	14	15
MIN	9.3	7.0	7.0	7.5	8.2	9.5	8.2	12	11	10	13	13
MED	10	8.4	7.3	7.7	8.8	10	9.9	13	12	12	13	14
AC-FT	631	517	446	480	488	629	580	783	704	752	823	833

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	7.61	6.92	6.30	6.48	6.87	8.05	7.59	7.81	7.47	7.62	8.06	9.11
MAX	10.3	8.83	8.22	7.81	8.79	10.7	9.75	12.7	11.8	12.2	13.4	14.0
(WY)	(2005)	(2004)	(2004)	(2005)	(2005)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	3.28	3.23	3.41	4.00	4.38	3.53	3.53	3.16	2.92	2.83	2.85	3.21
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	2,902.1		3,865.6			
ANNUAL MEAN	7.93		10.6		8.43	
HIGHEST ANNUAL MEAN					10.6	2005
LOWEST ANNUAL MEAN					6.76	2003
HIGHEST DAILY MEAN	12	Sep 25	15	Sep 21	17	Mar 21, 2003
LOWEST DAILY MEAN	6.8	Jul 11	7.0	Nov 26	2.7	Jul 19, 2002
ANNUAL SEVEN-DAY MINIMUM	6.8	Jul 10	7.0	Nov 29	2.8	Jul 14, 2002
MAXIMUM PEAK FLOW			15	Sep 20	18	Mar 22, 2003
MAXIMUM PEAK STAGE			12.90	Apr 17	12.90	Apr 17, 2005
INSTANTANEOUS LOW FLOW			7.0	Nov 24	2.7	Jul 18, 2002
ANNUAL RUNOFF (AC-FT)	5,760		7,670		6,110	
10 PERCENT EXCEEDS	10		14		13	
50 PERCENT EXCEEDS	7.4		11		8.1	
90 PERCENT EXCEEDS	7.1		7.4		4.0	

e Estimated

02322688 BLUE HOLE SPRING NEAR HILDRETH, FL

LOCATION.--Lat 29°58'47", long 82°45'31", in NW1/4 sec.7, T.6 S., R.16 E., Columbia County, Hydrologic Unit 03110206, on north side of spring pool in Ichetucknee Springs State Park, 300 ft upstream from Ichetucknee River, 1,000 ft downstream from Cedar Head Spring, 0.4 mi southeast of Ichetucknee Head Spring, 2.9 mi upstream from bridge on U.S. Highway 27, and 3.3 mi east of Hildreth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--1975 (miscellaneous discharge measurement), February 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 20.31 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder at bridge on U.S. Highway 27, 2.9 mi downstream from base gage at National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	184	190	186	188	192	e177	286	215	215	214	223
2	142	186	190	186	188	191	e175	292	215	214	216	223
3	134	188	189	186	189	191	e173	294	215	214	217	223
4	129	189	188	186	189	191	e170	293	215	213	218	223
5	126	191	188	186	189	191	e167	289	215	212	219	223
6	123	192	188	186	189	191	e163	286	215	212	219	223
7	121	193	188	186	189	192	e158	283	215	212	219	223
8	118	193	188	186	189	192	e150	281	215	211	218	223
9	116	193	188	186	189	192	e135	277	215	211	217	223
10	115	193	189	187	189	192	119	274	215	211	216	223
11	116	194	189	187	189	192	114	270	216	210	215	222
12	117	194	188	188	189	192	114	267	215	210	214	222
13	120	193	188	188	190	192	112	263	215	209	214	221
14	124	193	188	188	190	193	113	259	214	208	213	221
15	128	193	188	188	190	192	115	256	213	207	214	221
16	133	193	188	188	191	193	122	252	212	205	214	221
17	139	193	188	187	191	192	123	248	210	203	214	221
18	143	193	188	187	190	192	129	244	209	200	215	220
19	149	193	188	188	191	192	136	239	207	198	215	220
20	157	193	188	188	190	192	138	234	206	196	216	220
21	162	193	188	188	191	e191	140	229	206	195	217	220
22	166	193	189	188	191	e190	149	224	205	194	218	219
23	169	193	189	188	191	e190	159	218	205	194	220	219
24	171	194	188	188	192	e188	172	213	205	195	220	218
25	172	194	188	188	191	e188	192	212	207	197	221	217
26	174	193	188	189	191	e187	219	213	208	199	221	217
27	176	193	187	188	192	e185	243	213	210	202	222	216
28	178	192	187	187	192	e184	259	e214	211	206	222	215
29	180	192	187	188	---	e183	271	215	213	209	223	215
30	182	191	187	188	---	e181	281	215	214	211	223	214
31	183	---	187	188	---	e179	---	215	---	213	223	---
TOTAL	4,512	5,762	5,832	5,806	5,320	5,883	4,888	7,768	6,351	6,386	6,747	6,609
MEAN	146	192	188	187	190	190	163	251	212	206	218	220
MAX	183	194	190	189	192	193	281	294	216	215	223	223
MIN	115	184	187	186	188	179	112	212	205	194	213	214
MED	142	193	188	188	190	191	154	252	213	209	217	221
AC-FT	8,950	11,430	11,570	11,520	10,550	11,670	9,700	15,410	12,600	12,670	13,380	13,110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	116	131	130	130	132	134	126	145	133	131	133	142
MAX	146	192	188	187	190	190	163	251	212	206	218	220
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	68.8	70.6	72.8	79.1	83.9	83.2	83.3	79.6	73.6	69.7	66.0	67.7
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	50,879		71,864			
ANNUAL MEAN	139		197		144	
HIGHEST ANNUAL MEAN					197	2005
LOWEST ANNUAL MEAN					106	2003
HIGHEST DAILY MEAN	194	Nov 11	294	May 3	294	May 3, 2005
LOWEST DAILY MEAN	115	Oct 10	112	Apr 13	65	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	118	Oct 7	116	Apr 10	65	Aug 6, 2002
MAXIMUM PEAK FLOW			296	May 3	296	May 3, 2005
MAXIMUM PEAK STAGE			6.40	Apr 17	6.40	Apr 17, 2005
INSTANTANEOUS LOW FLOW			108	Apr 12	66	Aug 10, 2002
ANNUAL RUNOFF (AC-FT)	100,900		142,500		104,000	
10 PERCENT EXCEEDS	188		223		214	
50 PERCENT EXCEEDS	127		192		128	
90 PERCENT EXCEEDS	121		159		80	

e Estimated

02322691 MISSION SPRINGS COMPLEX NEAR HILDRETH, FL

LOCATION.--Lat 29°58'33", long 82°45'30", in SE$^{1}/_{4}$ sec.7, T.6 S., R.16 E., Columbia County, Hydrologic Unit 03110206, on left bank in Ichetucknee Springs State Park about 250 ft east of the Ichetucknee River, 1,500 ft downstream from Blue Hole Spring, 1.7 mi downstream from Ichetucknee Head Spring, 2.6 mi upstream from bridge on U.S. Highway 27, and 3.3 mi northeast of Hildreth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--1946 (miscellaneous discharge measurement), February 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is .51 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder at bridge on U.S. Highway 27, 2.6 mi downstream from base gage, at National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	132	122	117	121	125	e123	153	128	119	113	114
2	87	131	121	117	121	125	e122	159	128	119	113	113
3	76	130	121	117	121	125	e120	165	127	118	113	114
4	72	130	121	118	121	126	e118	165	127	117	114	114
5	71	130	121	118	121	126	e116	162	127	117	114	114
6	69	130	121	118	121	126	e112	157	127	117	113	114
7	67	129	121	118	122	127	e104	154	127	116	113	114
8	66	128	121	118	122	127	e93	153	127	116	112	114
9	67	127	121	118	123	127	e83	151	127	115	111	114
10	74	127	121	118	123	127	69	148	126	114	109	114
11	80	127	120	119	122	127	65	146	126	114	108	114
12	94	127	120	119	123	128	64	144	e126	114	107	114
13	96	127	120	119	123	128	63	140	e126	115	107	114
14	88	126	119	119	124	129	62	137	125	114	107	115
15	93	126	118	119	124	128	62	134	125	113	107	115
16	95	126	119	119	124	129	64	132	124	111	107	115
17	100	126	119	118	124	128	66	130	123	110	107	115
18	99	126	119	118	124	128	68	129	121	109	108	115
19	106	126	119	119	124	128	71	129	119	108	108	115
20	112	126	118	119	125	129	75	130	117	106	108	115
21	118	126	118	120	125	130	77	130	116	104	109	115
22	125	125	119	120	126	130	81	131	116	103	110	115
23	129	125	119	119	126	130	86	131	116	103	112	115
24	130	125	117	119	126	130	89	131	116	104	113	115
25	131	125	117	120	125	e129	94	131	116	105	113	116
26	132	123	117	121	125	e127	101	130	116	108	113	116
27	131	123	117	121	126	e126	113	130	117	109	113	116
28	130	123	117	120	126	e125	128	129	117	111	113	115
29	131	122	117	120	---	e125	140	129	118	111	113	115
30	132	122	117	121	---	e124	149	129	118	112	113	115
31	133	---	117	120	---	e124	---	128	---	112	114	---
TOTAL	3,142	3,796	3,694	3,686	3,458	3,943	2,778	4,347	3,669	3,464	3,435	3,439
MEAN	101	127	119	119	124	127	92.6	140	122	112	111	115
MAX	133	132	122	121	126	130	149	165	128	119	114	116
MIN	66	122	117	117	121	124	62	128	116	103	107	113
MED	99	126	119	119	124	127	87	132	125	112	112	115
AC-FT	6,230	7,530	7,330	7,310	6,860	7,820	5,510	8,620	7,280	6,870	6,810	6,820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	94.4	101	97.2	97.0	99.1	104	90.7	94.8	89.4	90.0	93.3	103
MAX	110	127	119	119	124	129	118	140	122	112	111	115
(WY)	(2004)	(2005)	(2005)	(2005)	(2005)	(2003)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	71.5	70.3	70.4	73.2	76.1	60.8	55.0	47.5	47.6	57.6	66.7	72.0
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	36,719		42,851			
ANNUAL MEAN	100		117		103	
HIGHEST ANNUAL MEAN					117	2005
LOWEST ANNUAL MEAN					94.6	2003
HIGHEST DAILY MEAN	133	Oct 31	165	May 3	181	Mar 22, 2003
LOWEST DAILY MEAN	66	Oct 8	62	Apr 14	43	Jun 3, 2002
ANNUAL SEVEN-DAY MINIMUM	69	Oct 4	64	Apr 11	44	May 28, 2002
MAXIMUM PEAK FLOW			169	May 3	182	Mar 22, 2003
MAXIMUM PEAK STAGE			26.14	Apr 17	26.14	Apr 17, 2005
INSTANTANEOUS LOW FLOW			52	Apr 15	42	Jun 4, 2002
ANNUAL RUNOFF (AC-FT)	72,830		84,990		74,870	
10 PERCENT EXCEEDS	125		130		127	
50 PERCENT EXCEEDS	98		119		103	
90 PERCENT EXCEEDS	86		102		72	

e Estimated

02322694 DEVIL'S EYE SPRING NEAR HILDRETH, FL

LOCATION.--Lat 29°58'24", long 82°45'37", in SW$^{1}/_{4}$ sec.7, T.6 S., R.16 E., Suwannee County, Hydrologic Unit 03110206, on right bank in Ichetucknee Springs State Park, about 150 ft upstream of the west bank of the Ichetucknee River, 0.9 mi downstream from Ichetucknee Head Spring, 2.4 mi upstream from bridge on U.S. Highway 27, and 3.1 mi northeast of Hildreth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--February 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 12.50 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder at bridge on U.S. Highway 27, 2.4 mi downstream from base gage at National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	70	58	57	57	59	e57	71	57	61	61	63
2	60	68	58	57	57	59	e57	72	57	61	62	62
3	61	65	58	57	58	59	e56	73	58	61	62	62
4	61	64	58	57	57	59	e55	73	58	60	63	62
5	62	64	58	57	57	59	e54	73	58	60	63	62
6	62	63	58	57	57	59	e53	73	58	60	63	62
7	63	62	58	57	58	59	e52	73	58	60	63	62
8	63	62	58	57	58	59	e51	74	58	60	62	62
9	65	62	58	57	58	59	e48	73	58	60	61	62
10	66	61	58	57	58	59	44	73	58	59	61	61
11	67	61	58	57	58	59	43	71	59	59	60	61
12	69	61	58	57	58	59	42	70	59	59	60	61
13	70	61	58	57	58	59	43	69	59	59	60	61
14	70	60	57	57	58	59	44	67	59	58	60	61
15	71	60	57	57	58	59	46	66	59	58	60	61
16	70	59	57	57	58	60	48	66	59	58	60	61
17	70	59	57	57	58	59	49	65	58	57	60	61
18	69	59	57	57	58	59	51	64	58	56	60	61
19	69	59	57	57	58	59	54	63	57	55	61	60
20	70	59	57	57	58	59	56	62	56	55	61	60
21	70	59	57	57	58	60	58	61	56	53	62	60
22	71	59	57	57	59	60	60	60	56	53	62	60
23	72	59	57	57	59	60	62	59	56	53	62	60
24	73	59	57	57	59	e59	64	59	56	54	63	60
25	74	59	57	57	59	e59	67	58	57	55	63	60
26	75	59	57	57	59	e59	67	57	58	57	63	60
27	77	59	57	57	59	e58	68	57	59	58	63	60
28	77	58	57	57	59	e58	68	57	59	59	63	60
29	76	58	57	57	---	e58	69	57	60	59	63	59
30	74	58	57	58	---	e57	70	57	61	60	63	59
31	72	---	57	57	---	e57	---	57	---	61	63	---
TOTAL	2,130	1,826	1,780	1,768	1,626	1,826	1,656	2,030	1,739	1,798	1,913	1,826
MEAN	68.7	60.9	57.4	57.0	58.1	58.9	55.2	65.5	58.0	58.0	61.7	60.9
MAX	77	70	58	58	59	60	70	74	61	61	63	63
MIN	60	58	57	57	57	57	42	57	56	53	60	59
MED	70	59	57	57	58	59	54	66	58	59	62	61
AC-FT	4,220	3,620	3,530	3,510	3,230	3,620	3,280	4,030	3,450	3,570	3,790	3,620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	55.2	51.9	49.1	48.8	49.4	54.3	49.6	51.0	49.1	49.5	49.8	53.3
MAX	68.7	60.9	57.4	57.0	58.1	73.2	57.4	65.5	58.0	58.0	61.7	60.9
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2003)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	41.7	41.8	41.6	43.0	44.9	38.2	38.4	38.9	39.4	40.0	40.0	41.2
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	18,671		21,918			
ANNUAL MEAN	51.0		60.0		53.2	
HIGHEST ANNUAL MEAN					60.0	2005
LOWEST ANNUAL MEAN					48.4	2004
HIGHEST DAILY MEAN	77	Oct 27	77	Oct 27	107	Mar 22, 2003
LOWEST DAILY MEAN	42	Aug 29	42	Apr 12	37	Feb 13, 2002
ANNUAL SEVEN-DAY MINIMUM	42	Aug 29	44	Apr 9	37	Feb 13, 2002
MAXIMUM PEAK FLOW			78	Oct 27	107	Mar 22, 2003
MAXIMUM PEAK STAGE			14.22	Apr 17	14.22	Apr 17, 2005
INSTANTANEOUS LOW FLOW			38	Apr 12	36	Feb 27, 2002
ANNUAL RUNOFF (AC-FT)	37,030		43,470		38,510	
10 PERCENT EXCEEDS	63		68		62	
50 PERCENT EXCEEDS	47		59		53	
90 PERCENT EXCEEDS	45		57		43	

e Estimated

02322695 MILL POND SPRING NEAR HILDRETH, FL

LOCATION.--Lat 29° 58'04", long 82° 45'37", in NE$^{1}/_{4}$ sec.13, T.6 S., R.15 E., Columbia County, Hydrologic Unit 03110206, on left bank in the Ichetucknee Springs State Park, about 600 ft upstream from east bank of the Ichetucknee River, 1.2 mi downstream from Ichetucknee Head Spring, 2.1 mi upstream from bridge on U.S. Highway 27, and 3.0 mi northeast of Hildreth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--1946, 1975 (miscellaneous discharge measurement), February 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 18.76 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder at bridge on U. S. Highway 27, 2.1 mi downstream from base gage at National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	36	42	42	43	44	42	40	50	45	34	35
2	19	36	42	42	43	44	41	44	49	44	34	36
3	18	37	42	42	43	44	40	46	49	44	34	36
4	18	38	42	42	43	44	38	48	48	43	33	36
5	18	39	42	42	43	43	35	48	48	43	32	36
6	18	39	42	42	43	44	33	49	48	43	32	36
7	18	40	42	43	43	44	28	51	48	42	31	37
8	17	40	42	43	43	44	23	51	48	42	30	37
9	17	40	42	43	43	44	18	52	48	42	30	37
10	17	40	43	43	43	44	12	53	48	41	30	38
11	18	40	43	43	43	44	8.8	54	48	41	30	38
12	18	40	43	43	43	44	e7.8	54	48	40	31	38
13	19	40	43	43	43	44	e6.9	55	48	39	31	38
14	20	41	43	43	44	44	e6.0	56	47	38	31	38
15	21	41	42	43	44	44	e5.9	56	46	37	31	38
16	21	41	43	43	44	44	e5.6	56	45	35	32	38
17	21	41	43	43	44	44	e5.8	57	44	33	32	39
18	20	41	43	43	44	44	e6.0	57	44	32	32	39
19	21	41	43	43	44	44	e6.9	57	43	30	32	39
20	22	42	43	43	44	44	e8.0	57	42	28	32	39
21	23	42	42	43	44	43	8.6	57	41	27	32	39
22	25	42	42	43	44	42	11	57	41	26	32	40
23	26	42	43	43	44	42	13	57	41	26	33	40
24	27	42	42	43	44	41	16	57	41	27	33	40
25	28	43	43	43	44	41	18	57	42	28	33	40
26	29	42	42	43	44	41	20	56	42	30	34	40
27	30	42	42	43	44	41	25	55	43	31	34	40
28	31	42	42	43	44	41	28	53	44	32	34	40
29	33	42	42	43	---	41	33	52	44	34	34	40
30	34	42	42	43	---	42	38	51	44	34	35	40
31	35	---	42	43	---	42	---	51	---	35	35	---
TOTAL	701	1,214	1,314	1,327	1,219	1,336	588.3	1,644	1,362	1,112	1,003	1,147
MEAN	22.6	40.5	42.4	42.8	43.5	43.1	19.6	53.0	45.4	35.9	32.4	38.2
MAX	35	43	43	43	44	44	42	57	50	45	35	40
MIN	17	36	42	42	43	41	5.6	40	41	26	30	35
MED	21	41	42	43	44	44	17	54	46	35	32	38
AC-FT	1,390	2,410	2,610	2,630	2,420	2,650	1,170	3,260	2,700	2,210	1,990	2,280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	24.1	29.2	29.2	29.4	30.3	35.0	26.3	29.2	28.8	27.8	26.4	29.1
MAX	33.8	40.5	42.4	42.8	43.5	50.8	44.3	53.0	45.4	35.9	33.4	38.2
(WY)	(2004)	(2005)	(2005)	(2005)	(2005)	(2003)	(2003)	(2005)	(2005)	(2005)	(2003)	(2005)
MIN	16.0	15.0	14.3	15.4	17.8	17.6	16.4	14.8	15.0	15.8	15.8	16.0
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	10,398		13,967.3			
ANNUAL MEAN	28.4		38.3		31.3	
HIGHEST ANNUAL MEAN					38.3	2005
LOWEST ANNUAL MEAN					27.7	2004
HIGHEST DAILY MEAN	43	Nov 25	57	May 17	76	Mar 21, 2003
LOWEST DAILY MEAN	17	Oct 8	5.6	Apr 16	5.6	Apr 16, 2005
ANNUAL SEVEN-DAY MINIMUM	18	Oct 4	6.2	Apr 13	6.2	Apr 13, 2005
MAXIMUM PEAK FLOW			58	May 17	76	Mar 21, 2003
MAXIMUM PEAK STAGE			7.83	Apr 17	7.83	Apr 17, 2005
ANNUAL RUNOFF (AC-FT)	20,620		27,700		22,650	
10 PERCENT EXCEEDS	42		48		44	
50 PERCENT EXCEEDS	27		42		31	
90 PERCENT EXCEEDS	22		21		16	

e Estimated

02322698 ICHETUCKNEE RIVER AT DAMPIER'S LANDING NEAR HILDRETH, FL

LOCATION.--Lat 29°57'37", long 82°46'20", in SW1/4 sec.13, T.6 S., R.15 E., Columbia County, Hydrologic Unit 03110206, on the left bank, in the Ichetucknee Springs State Park, 1.2 mi upstream from bridge on U.S. Highway 27, 1.9 mi from mouth, 2.1 mi downstream from Ichetucknee Head Spring, and 2.2 mi east of Hildreth.

DRAINAGE AREA.--208 mi^2.

PERIOD OF RECORD.--1993 (Miscellaneous discharge measurement), February 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.62 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder at bridge on U.S. Highway 129, 8.0 mi below base gage, at datum 3.5 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	213	437	442	432	425	342	541	494	486	506	500
2	270	214	420	442	432	425	337	553	492	485	505	498
3	273	215	407	443	431	425	323	565	491	487	503	497
4	268	216	398	444	430	425	279	569	489	486	502	497
5	262	220	396	445	430	425	248	566	487	486	500	496
6	255	226	396	445	429	425	228	578	486	489	500	495
7	249	232	400	445	429	426	218	587	486	491	500	495
8	247	238	408	444	430	428	216	597	485	492	499	494
9	247	247	420	443	430	427	215	609	485	494	498	493
10	247	257	433	442	430	428	220	609	483	495	498	492
11	247	269	441	441	429	429	222	608	483	496	500	491
12	245	282	443	441	429	429	223	604	482	495	501	491
13	243	296	442	440	429	430	229	600	481	496	502	491
14	241	314	441	442	430	430	232	596	481	493	e505	490
15	242	330	440	438	430	429	233	591	483	489	508	490
16	237	344	439	437	430	432	234	586	488	467	509	490
17	233	361	439	436	430	430	236	582	486	443	509	490
18	232	374	440	436	429	429	241	575	483	424	511	489
19	231	390	440	436	428	430	246	569	480	406	511	488
20	229	402	440	437	428	431	252	564	478	394	512	488
21	227	416	440	437	428	434	266	556	479	383	512	489
22	225	432	439	438	429	438	287	543	480	387	514	488
23	222	441	441	437	429	442	320	530	480	395	516	488
24	220	442	439	436	429	444	360	520	482	405	512	486
25	217	448	440	436	429	447	382	515	483	421	509	484
26	214	441	440	436	427	442	409	511	484	440	506	482
27	212	441	437	436	431	438	461	508	485	463	504	481
28	211	440	437	434	427	437	498	505	484	492	502	479
29	210	439	438	434	---	411	516	502	485	509	501	478
30	211	440	439	434	---	376	530	499	486	511	501	477
31	213	---	440	433	---	359	---	497	---	509	501	---
TOTAL	7,337	10,020	13,350	13,610	12,024	13,226	9,003	17,335	14,531	14,409	15,657	14,687
MEAN	237	334	431	439	429	427	300	559	484	465	505	490
MAX	273	448	443	445	432	447	530	609	494	511	516	500
MIN	210	213	396	433	427	359	215	497	478	383	498	477
MED	237	337	439	438	429	429	250	566	484	486	504	490
AC-FT	14,550	19,870	26,480	27,000	23,850	26,230	17,860	34,380	28,820	28,580	31,060	29,130
CFSM	1.14	1.61	2.07	2.11	2.06	2.05	1.44	2.69	2.33	2.23	2.43	2.35
IN.	1.31	1.79	2.39	2.43	2.15	2.37	1.61	3.10	2.60	2.58	2.80	2.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	269	297	331	339	335	288	259	361	340	337	336	333
MAX	368	346	431	439	429	427	345	559	484	465	505	490
(WY)	(2004)	(2004)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	203	211	221	240	261	197	184	195	196	202	200	201
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	118,461		155,189			
ANNUAL MEAN	324		425		342	
HIGHEST ANNUAL MEAN					425	2005
LOWEST ANNUAL MEAN					273	2003
HIGHEST DAILY MEAN	448	Nov 25	609	May 9	609	May 9, 2005
LOWEST DAILY MEAN	209	Sep 25	210	Oct 29	138	Mar 11, 2003
ANNUAL SEVEN-DAY MINIMUM	212	Oct 26	212	Oct 26	156	Mar 7, 2003
MAXIMUM PEAK FLOW			613	May 8	613	May 8, 2005
MAXIMUM PEAK STAGE			17.95	Apr 17	17.95	Apr 17, 2005
INSTANTANEOUS LOW FLOW			189	Apr 7	137	Mar 11, 2003
ANNUAL RUNOFF (AC-FT)	235,000		307,800		248,000	
ANNUAL RUNOFF (CFSM)	1.56		2.04		1.65	
ANNUAL RUNOFF (INCHES)	21.19		27.75		22.36	
10 PERCENT EXCEEDS	407		510		486	
50 PERCENT EXCEEDS	329		440		340	
90 PERCENT EXCEEDS	240		240		213	

e Estimated

02322699 COFFEE SPRINGS NEAR HILDRETH, FL

LOCATION.--Lat 29°57'33", long 82°46'31", in SW 1/4 sec.13, T.6 S., R.15 E., Suwannee County, Hydrologic Unit 03110206, on the right bank of Ichetucknee River in Ichetucknee Springs State Park, 0.7 mi upstream from bridge at U.S. Highway 27, 1.7 mi east of Hildreth, and 2.6 mi downstream from Ichetucknee Head Spring.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--May 2002 to current year (discharge measurements and gage-height only).

GAGE.--Nonrecording gage. Elevation of gage is 17.25 ft above National Geodetic Vertical Datum of 1929 (levels by Suwannee River Water Management District).

REMARKS.--Spring becomes fully or partially submerged by Ichetucknee River.

EXTREMES FOR PERIOD OF RECORD.--Maximum measured discharge, 2.4 ft^3/s, Aug. 9, 2005; maximum observed gage height, 19.72 ft, Aug. 9, 2005; minimum measured discharge, 0.39 ft^3/s, May 31, 2003; minimum observed gage height, 16.80 ft, July 27, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum measured discharge, 2.4 ft^3/s, Aug. 9; maximum observed gage height, 19.72 ft, Aug. 9; minimum measured discharge, 1.2 ft^3/s, Oct. 27; minimum observed gage height, 18.47 ft, Sept. 21.

DISCHARGE MEASUREMENTS, OCTOBER 2004 TO SEPTEMBER 2005

DATE	TIME	STEAM STAGE	DISCHARGE IN FT3/S
Oct. 14	16.45	a	
Oct. 27	1435	b	1.2
Mar. 9	1505	b	2.1
June 6	1250	19.17	2.1
Aug. 9	0835	19.72	2.4
Sept. 21	1350	18.47	2.0

a Spring fully submerged by backwater

b Spring partially submerged by backwater

02322700 ICHETUCKNEE RIVER AT HIGHWAY 27 NEAR HILDRETH, FL

LOCATION.--Lat 29°57'09", long 82°47'10", in NW1/4 sec.23, T.6 S., R.15 E., Columbia County, Hydrologic Unit 03110206, on the downstream side of bridge on U.S. Highway 27, 1.0 mi east of Hildreth, 1.5 mi upstream from mouth, and 3.0 mi downstream from Ichetucknee Head Spring.

DRAINAGE AREA.--213 mi^2.

PERIOD OF RECORD.--1917, 1989, 1991 (miscellaneous discharge measurements), October 1929 to September 1983 and October 1995 to September 1998 (discharge measurements), February 2002 to current year. Published as Ichetucknee Springs near Hildreth, 1989, October 1995 to September 1996, 1998.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder at bridge on U.S. Highway 129, 7.0 mi below base gage, at datum 3.5 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 34.05 ft, Apr, 12, 1948 (backwater from Santa Fe River).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	160	448	469	412	386	e142	511	e519	489	523	547
2	358	162	441	474	411	388	e149	494	e518	486	517	544
3	346	163	434	479	410	393	e153	483	e518	492	510	541
4	306	165	423	482	408	397	e157	477	e517	493	505	538
5	265	170	418	484	407	402	e164	468	e517	496	500	534
6	235	172	418	483	407	406	e171	505	e516	503	497	530
7	210	178	425	480	406	410	e179	523	e516	510	492	527
8	199	183	436	474	405	418	e190	535	e517	516	487	522
9	195	191	441	467	406	e420	e199	537	e518	519	485	519
10	191	200	447	462	405	e423	e212	537	e520	524	488	515
11	187	214	447	454	404	e425	217	533	521	528	490	512
12	177	231	450	451	401	e421	219	530	525	526	492	509
13	173	250	452	447	401	e420	232	525	524	526	493	507
14	171	275	453	449	400	e422	232	521	504	525	e510	504
15	174	308	455	441	400	e429	233	519	481	524	521	502
16	167	339	455	438	399	e435	228	517	466	520	525	499
17	161	386	454	437	398	e435	229	517	456	485	525	497
18	163	418	451	437	396	e432	236	511	447	462	523	497
19	164	448	449	436	395	e415	256	506	447	441	521	495
20	162	456	452	437	394	e402	277	501	441	425	517	493
21	161	458	454	438	392	e415	304	500	429	420	515	493
22	159	460	449	439	390	e433	334	507	436	423	516	491
23	156	463	448	437	389	e451	365	517	448	445	519	490
24	155	466	443	433	389	e475	398	528	470	462	521	488
25	153	475	441	431	388	e485	393	536	477	509	531	485
26	149	468	440	429	386	e468	397	543	480	537	538	483
27	147	470	437	426	392	e391	446	538	486	547	545	481
28	146	467	439	421	387	e231	485	e532	490	542	550	480
29	146	460	445	419	---	e146	502	e526	491	539	554	478
30	148	454	454	418	---	e141	512	e523	493	535	554	477
31	157	---	461	414	---	e141	---	e520	---	529	551	---
TOTAL	5,998	9,710	13,760	13,886	11,178	12,056	8,211	16,020	14,688	15,478	16,015	15,178
MEAN	193	324	444	448	399	389	274	517	490	499	517	506
MAX	358	475	461	484	412	485	512	543	525	547	554	547
MIN	146	160	418	414	386	141	142	468	429	420	485	477
MED	167	324	447	439	400	418	232	520	492	510	517	500
AC-FT	11,900	19,260	27,290	27,540	22,170	23,910	16,290	31,780	29,130	30,700	31,770	30,110
CFSM	0.91	1.52	2.08	2.10	1.87	1.83	1.28	2.43	2.30	2.34	2.43	2.38
IN.	1.05	1.70	2.40	2.43	1.95	2.11	1.43	2.80	2.57	2.70	2.80	2.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	240	278	322	327	307	274	240	342	325	338	328	331
MAX	340	324	444	448	399	389	329	517	490	499	517	506
(WY)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	188	186	191	206	224	194	164	186	201	206	207	202
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	111,672		152,178			
ANNUAL MEAN	305		417		326	
HIGHEST ANNUAL MEAN					417	2005
LOWEST ANNUAL MEAN					254	2003
HIGHEST DAILY MEAN	475	Nov 25	554	Aug 29	554	Aug 29, 2005
LOWEST DAILY MEAN	137	Sep 26	e 141	Mar 30	124	Apr 1, 2003
ANNUAL SEVEN-DAY MINIMUM	149	Sep 21	e 147	Mar 29	132	Mar 28, 2003
MAXIMUM PEAK FLOW			563	Apr 30	563	Apr 30, 2005
MAXIMUM PEAK STAGE			26.60	Apr 17	26.60	Apr 17, 2005
INSTANTANEOUS LOW FLOW			137	Mar 31	113	Mar 31, 2003
ANNUAL RUNOFF (AC-FT)	221,500		301,800		236,500	
ANNUAL RUNOFF (CFSM)	1.43		1.96		1.53	
ANNUAL RUNOFF (INCHES)	19.50		26.58		20.82	
10 PERCENT EXCEEDS	439		525		493	
50 PERCENT EXCEEDS	302		450		326	
90 PERCENT EXCEEDS	182		179		184	

e Estimated

02322800 SANTA FE RIVER NEAR HILDRETH, FL

LOCATION.--Lat 29° 54'41", long 82° 51'38", in NE1/4 sec. 1, T. 7 S., R. 14 E., Gilchrist County, Hydrologic Unit 03110206, near left bank on downstream side of bridge of U.S. Highway 129 and State Highway 49, 1.7 mi upsteam from mouth, and 8.6 mi west of Fort White.

DRAINAGE AREA.--1,376 mi^2, approximately.

PERIOD OF RECORD.--October 1947 to October 2000 (gage heights only), November 2000 to September 2005 (discontinued). Published as "near Fort White (auxiliary)" prior to September 1965.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is 3.5 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 11, 1949, nonrecording gage at same sites and datum. Since October 1947 used as auxiliary gage for Santa Fe River near Fort White (station 02322500).

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,430	3,970	2,510	1,990	1,830	1,640	3,120	3,190	2,420	2,770	2,850	2,300
2	7,870	3,960	2,460	2,000	1,800	1,630	3,120	3,230	2,400	2,680	2,800	2,320
3	7,970	3,820	2,440	2,050	1,820	1,630	3,130	2,920	2,390	2,780	2,670	2,240
4	7,590	3,950	2,410	2,030	1,780	1,650	3,050	2,860	2,370	2,830	2,630	2,270
5	7,210	3,660	2,400	2,140	1,790	1,680	2,930	3,040	2,140	2,910	2,450	2,170
6	6,700	3,500	2,440	2,120	1,770	1,680	3,010	3,030	2,120	3,010	2,420	2,200
7	6,640	3,400	2,520	2,130	1,770	1,700	3,100	2,950	2,190	3,100	2,280	2,200
8	6,260	3,360	2,620	2,160	1,810	1,670	2,930	3,010	2,160	3,050	2,340	2,270
9	6,200	3,200	2,630	e2,130	1,830	1,610	2,820	3,200	2,190	3,200	2,270	2,310
10	6,120	3,150	2,700	e2,150	1,820	1,600	2,650	3,330	2,270	3,420	2,180	2,170
11	6,040	3,130	2,490	e2,130	1,800	1,570	2,680	3,340	2,240	3,310	2,200	2,170
12	5,630	3,190	2,400	2,080	1,790	1,560	2,710	3,210	2,210	3,070	2,230	2,210
13	5,470	3,060	2,360	2,120	1,770	1,540	2,630	3,150	2,240	3,200	2,270	2,220
14	5,340	2,930	2,280	2,060	1,790	1,610	2,740	3,190	2,210	3,130	e2,240	2,230
15	5,220	2,870	2,230	1,960	1,760	1,530	2,810	3,310	2,080	3,050	e2,200	2,210
16	5,170	2,810	2,160	1,960	1,770	1,590	2,920	3,260	2,160	2,930	2,160	2,190
17	4,870	2,770	2,150	1,960	1,770	1,470	3,010	3,190	2,190	2,570	2,190	2,150
18	4,650	2,750	2,170	1,920	1,700	1,360	3,030	3,130	2,150	2,540	2,190	2,170
19	4,550	2,790	2,180	1,960	1,670	1,350	3,210	2,980	2,360	2,580	2,220	2,100
20	4,520	2,820	2,180	2,000	1,690	1,350	3,160	3,020	2,190	2,480	2,250	2,030
21	4,360	2,820	2,180	2,010	1,700	1,310	3,110	2,880	2,280	2,370	2,270	2,010
22	4,790	2,780	2,180	2,000	1,730	1,390	3,190	2,690	2,510	2,340	2,270	2,010
23	4,480	2,760	2,220	1,950	1,730	1,530	3,290	2,670	2,510	2,360	2,280	1,980
24	4,250	2,760	2,150	1,940	1,720	1,450	3,350	2,680	2,620	2,550	2,250	1,960
25	4,090	2,910	2,090	1,940	1,620	1,480	3,390	2,560	2,790	2,640	2,260	1,960
26	3,820	2,580	2,140	1,940	1,590	1,600	3,560	2,490	2,790	2,620	2,320	2,010
27	4,000	2,540	2,080	1,900	1,650	1,740	3,330	2,400	2,840	2,640	2,320	1,970
28	4,240	2,600	2,000	1,870	1,700	2,090	3,320	2,420	2,960	2,730	2,310	1,950
29	3,940	2,510	2,000	1,830	---	2,500	3,290	2,380	2,900	2,780	2,260	1,970
30	3,810	2,490	1,960	1,860	---	2,740	3,270	2,460	2,950	2,840	2,310	1,910
31	3,980	---	1,990	1,830	---	3,030	---	2,490	---	2,890	2,280	---
TOTAL	167,210	91,840	70,720	62,120	48,970	52,280	91,860	90,660	71,830	87,370	72,170	63,860
MEAN	5,394	3,061	2,281	2,004	1,749	1,686	3,062	2,925	2,394	2,818	2,328	2,129
MAX	7,970	3,970	2,700	2,160	1,830	3,030	3,560	3,340	2,960	3,420	2,850	2,320
MIN	3,810	2,490	1,960	1,830	1,590	1,310	2,630	2,380	2,080	2,340	2,160	1,910
AC-FT	331,700	182,200	140,300	123,200	97,130	103,700	182,200	179,800	142,500	173,300	143,100	126,700
CFSM	3.93	2.23	1.66	1.46	1.27	1.23	2.23	2.13	1.74	2.05	1.69	1.55
IN.	4.53	2.49	1.91	1.68	1.33	1.42	2.49	2.45	1.94	2.37	1.95	1.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	2,355	1,639	1,398	1,320	1,415	1,677	1,696	1,509	1,429	1,591	1,612	2,347
MAX	5,394	3,061	2,281	2,004	1,855	2,842	3,062	2,925	2,394	2,818	2,328	5,372
(WY)	(2005)	(2005)	(2005)	(2005)	(2004)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	1,041	997	1,032	980	957	837	828	815	825	909	987	961
(WY)	(2003)	(2003)	(2002)	(2001)	(2001)	(2001)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	841,230		970,890			
ANNUAL MEAN	2,298		2,660		1,800	
HIGHEST ANNUAL MEAN					2,660	2005
LOWEST ANNUAL MEAN					971	2002
HIGHEST DAILY MEAN	9,710	Sep 13	7,970	Oct 3	9,710	Sep 13, 2004
LOWEST DAILY MEAN	1,130	May 14	1,310	Mar 21	589	Mar 28, 2001
ANNUAL SEVEN-DAY MINIMUM	1,140	May 12	1,390	Mar 18	616	Mar 24, 2001
MAXIMUM PEAK FLOW			9,470	Oct 3	11,000	Sep 12, 2004
MAXIMUM PEAK STAGE			22.85	Apr 17	30.69	Apr 12, 1948
INSTANTANEOUS LOW FLOW			1,000	Mar 23	54	Jul 30, 2001
ANNUAL RUNOFF (AC-FT)	1,669,000		1,926,000		1,304,000	
ANNUAL RUNOFF (CFSM)	1.67		1.94		1.31	
ANNUAL RUNOFF (INCHES)	22.78		26.29		17.80	
10 PERCENT EXCEEDS	4,810		3,600		2,870	
50 PERCENT EXCEEDS	1,370		2,380		1,450	
90 PERCENT EXCEEDS	1,170		1,730		924	

e Estimated

02323000 SUWANNEE RIVER NEAR BELL, FL

LOCATION.--Lat 29° 47'28", long 82° 55'28", in NW[1]/4sec. 16, T. 8 S., R. 14 E., Gilchrist County, Hydrologic Unit 03110205, on downstream side of bridge on State Road 340, 4.5 mi northwest of Bell, 10.4 mi downstream from Santa Fe River, and 55 mi upstream from mouth.

DRAINAGE AREA.--9,390 mi^2, approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--June 1932 to November 1956, November 1975 to October 1977 (annual maximum elevation), November 1996 to January 1999 (gage-heights only), October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Suwannee River Water Management District). June 1, 1932 to Nov. 16, 1956, water-stage recorder at site .4 mi downstream at datum 3.60 ft higher, Nov. 18, 1975 to Oct. 10, 1977, nonrecording gage at present site at datum 3.60 ft higher, Nov. 1, 1996 to Jan. 31, 1999 and since Aug. 3, 2000, water-stage recorder at present site and datum.

REMARKS.--Records good, except for estimated daily discharge which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 28, 1928, reached a stage of 25.9 ft, from floodmarks; discharge, 74,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24,500	22,100	12,200	11,900	9,590	8,750	e21,100	e24,400	11,500	14,900	17,300	13,000
2	25,700	21,500	12,500	12,100	9,550	9,170	e21,900	e23,600	11,300	14,900	16,700	12,800
3	26,800	20,900	12,600	12,300	9,550	9,580	e22,600	e23,100	11,000	15,200	16,300	12,700
4	27,800	20,300	12,800	12,400	9,530	9,950	e23,400	e22,700	10,900	15,500	16,000	12,600
5	28,500	19,700	12,800	12,500	9,470	10,200	e24,100	22,300	11,000	15,700	15,800	12,400
6	29,200	19,000	12,900	12,400	9,460	10,500	e24,900	22,000	11,300	16,000	15,700	12,200
7	29,900	18,300	12,800	12,300	9,510	10,700	e25,700	21,500	11,600	16,200	15,800	12,000
8	30,500	17,600	12,700	12,200	9,550	11,000	e26,800	21,200	11,800	16,400	16,000	11,700
9	31,100	16,900	12,600	11,900	9,600	11,200	e27,600	20,900	12,000	16,500	16,300	11,400
10	31,700	16,400	12,500	11,700	9,620	11,400	e28,600	20,600	12,000	16,800	16,600	11,200
11	32,100	16,000	12,300	11,500	9,500	11,600	e29,400	20,300	12,000	17,000	16,900	10,900
12	32,400	15,600	12,000	11,300	9,350	11,800	e30,300	19,900	12,200	17,300	17,200	10,700
13	32,500	15,200	11,900	11,200	9,290	11,900	e31,200	19,400	12,500	17,600	17,400	10,400
14	32,300	14,800	11,700	11,100	9,250	11,900	32,500	18,900	12,900	18,100	17,500	10,200
15	32,200	14,400	11,500	10,900	9,170	11,900	33,200	18,300	13,400	18,700	e17,200	10,000
16	31,800	14,100	11,400	10,700	9,030	11,900	33,700	17,600	14,000	19,400	e17,100	9,820
17	31,200	13,700	11,500	10,700	8,950	11,900	34,100	16,900	14,600	20,100	e16,800	9,630
18	30,600	13,500	11,500	10,700	8,850	12,000	34,100	16,400	15,200	20,700	e16,500	9,470
19	30,000	13,200	11,500	10,700	8,750	12,200	34,000	15,900	15,800	21,400	e16,200	9,300
20	29,500	13,000	11,400	10,800	8,700	12,500	33,700	15,400	16,200	21,900	e15,600	9,080
21	28,900	12,700	11,200	10,800	8,690	12,900	33,300	14,900	16,500	22,400	e15,400	8,850
22	28,300	12,500	11,000	10,900	8,670	13,200	32,600	14,500	16,800	22,700	e15,200	8,780
23	27,700	12,200	10,900	10,800	8,560	13,600	32,000	14,100	17,100	22,900	15,000	8,730
24	27,100	12,000	10,700	10,700	8,500	13,800	31,200	13,700	17,000	22,800	14,700	8,620
25	26,500	12,200	10,500	10,500	8,420	14,300	30,200	13,300	16,700	22,500	14,300	8,440
26	25,800	11,900	10,400	10,400	8,280	14,900	29,300	13,000	16,300	22,000	14,000	8,310
27	25,200	11,700	10,300	10,300	8,340	15,600	28,300	12,600	16,000	21,400	13,700	8,230
28	24,600	11,700	10,500	10,100	8,560	16,500	27,200	12,300	15,600	20,600	13,600	8,160
29	24,000	11,800	10,900	9,880	---	17,700	26,100	12,100	15,200	19,800	13,400	8,110
30	23,400	12,000	11,300	9,840	---	18,900	25,100	11,800	15,000	19,000	13,300	8,020
31	22,700	---	11,600	9,700	---	e20,200	---	11,700	---	18,100	13,100	---
TOTAL	884,500	456,900	362,400	345,220	254,290	393,650	868,200	545,300	415,400	584,500	486,600	305,750
MEAN	28,530	15,230	11,690	11,140	9,082	12,700	28,940	17,590	13,850	18,850	15,700	10,190
MAX	32,500	22,100	12,900	12,500	9,620	20,200	34,100	24,400	17,100	22,900	17,500	13,000
MIN	22,700	11,700	10,300	9,700	8,280	8,750	21,100	11,700	10,900	14,900	13,100	8,020
MED	28,900	14,200	11,500	10,900	9,210	11,900	29,300	17,600	13,700	18,700	16,000	9,920
AC-FT	1,754,000	906,300	718,800	684,700	504,400	780,800	1,722,000	1,082,000	823,900	1,159,000	965,200	606,500
CFSM	3.04	1.62	1.24	1.19	0.97	1.35	3.08	1.87	1.47	2.01	1.67	1.09
IN.	3.50	1.81	1.44	1.37	1.01	1.56	3.44	2.16	1.65	2.32	1.93	1.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005, BY WATER YEAR (WY)

MEAN	8,663	7,326	6,730	7,799	8,391	11,090	12,800	8,345	6,303	6,737	8,237	8,811
MAX	28,530	34,280	32,940	26,750	21,170	33,390	59,430	20,050	13,850	18,850	22,260	19,960
(WY)	(2005)	(1948)	(1948)	(1948)	(1948)	(1948)	(1948)	(1948)	(2005)	(2005)	(1945)	(1945)
MIN	2,733	2,805	2,537	2,454	2,506	3,544	3,882	2,818	2,403	2,303	2,175	2,646
(WY)	(2003)	(2002)	(2002)	(2002)	(2002)	(1955)	(1955)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1932 - 2005	
ANNUAL TOTAL	3,600,080		5,902,710			
ANNUAL MEAN	9,836		16,170		8,473	
HIGHEST ANNUAL MEAN					24,140	1948
LOWEST ANNUAL MEAN					3,013	2002
HIGHEST DAILY MEAN	32,500	Oct 13	34,100	Apr 17	82,300	Apr 13, 1948
LOWEST DAILY MEAN	3,400	Jun 13	8,020	Sep 30	2,050	Aug 9, 2002
ANNUAL SEVEN-DAY MINIMUM	3,470	Jun 8	8,270	Sep 24	2,100	Aug 8, 2002
MAXIMUM PEAK FLOW			34,300	Apr 18	82,300	Apr 13, 1948
MAXIMUM PEAK STAGE			22.16	Apr 18	27.43	Apr 13, 1948
INSTANTANEOUS LOW FLOW			7,970	Sep 30	1,920	Aug 9, 2002
ANNUAL RUNOFF (AC-FT)	7,141,000		11,710,000		6,138,000	
ANNUAL RUNOFF (CFSM)	1.05		1.72		0.902	
ANNUAL RUNOFF (INCHES)	14.26		23.38		12.26	
10 PERCENT EXCEEDS	21,600		28,000		15,700	
50 PERCENT EXCEEDS	5,820		13,700		6,610	
90 PERCENT EXCEEDS	3,770		9,520		3,530	

e Estimated

02323500 SUWANNEE RIVER NEAR WILCOX, FL

LOCATION.--Lat 29°35'22", long 82°56'12", in NW 1/4 sec.29, T. 10 S., R. 14 E., Levy County, Hydrologic Unit 03110205, on left bank about 400 ft downstream from Fort Fannin Bridge on U.S. Highway 19, 2.0 mi southwest of Wilcox, and 33 mi upstream from mouth.

DRAINAGE AREA.--9,671 mi^2, revised, approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--October 1930 to September 1931, October 1941 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1905: WDR FL-75-1: Drainage area. WDR FL-97-4: 1996.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is 0.53 ft below National Geodetic Vertical Datum of 1929. Prior to July 4, 1931, nonrecording gage at site 400 ft upstream at present datum. July 4 to Sept. 30, 1931, and Mar. 26 to May 14, 1942, water-stage recorder, and May 15, 1942 to Jan. 24, 1951, nonrecording gage at present site and datum. Feb. 1, 1951 to Dec. 9, 1999, auxiliary water-stage recorder about 9.0 mi downstream from base gage. Datum of auxiliary gage is 2.99 ft below National Geodetic Vertical Datum of 1929. Water-current meter since Dec. 9, 1999.

REMARKS.--Records fair, except for June 29 to Sept. 30 and estimated daily discharges which are poor. Flow generally affected by tide when discharge is less than 17,500 ft^3/s. Discharge computed from continuous velocity record obtained from water-current meter.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23,100	20,900	11,200	11,400	9,050	8,390	18,100	26,200	11,300	15,900	e19,400	e14,400
2	24,200	20,500	11,600	11,600	8,890	8,680	20,200	26,700	11,500	16,000	18,800	e14,100
3	25,500	20,000	11,700	11,800	9,080	8,880	21,100	25,200	11,300	15,900	18,100	e13,800
4	26,200	19,600	11,600	12,000	9,050	9,450	21,600	24,400	11,100	16,200	17,800	e13,300
5	27,200	18,700	11,700	11,800	8,910	9,710	22,100	24,200	11,300	16,400	17,300	e12,900
6	28,300	18,400	11,800	11,900	8,690	9,810	23,100	24,100	11,300	16,700	17,100	12,500
7	29,300	17,800	12,100	11,600	8,650	9,890	24,200	23,400	11,700	16,900	16,700	12,000
8	29,900	17,300	12,100	11,500	8,660	10,400	26,000	22,600	11,900	17,700	16,900	12,000
9	30,600	16,800	11,800	11,400	8,730	10,700	27,400	22,500	e12,600	17,600	17,400	11,400
10	31,500	16,400	11,900	11,200	9,300	10,800	28,000	22,200	e12,800	17,400	17,600	11,200
11	32,700	15,700	12,000	10,900	9,310	11,000	28,900	21,600	e12,900	17,900	18,300	10,900
12	33,700	15,200	11,900	10,600	8,730	11,400	29,500	21,600	e12,900	19,300	18,600	10,700
13	33,700	14,700	11,400	10,200	8,450	11,400	32,100	21,100	e13,000	e19,300	18,600	10,400
14	33,500	14,200	11,600	10,500	8,470	11,500	32,600	20,700	e13,300	19,400	18,900	10,200
15	32,600	13,900	11,300	10,500	8,720	11,600	33,900	20,300	e13,700	19,700	18,800	10,100
16	32,400	13,400	11,000	10,300	8,480	11,400	34,900	19,800	e14,200	20,300	18,700	9,590
17	31,300	13,300	10,600	10,100	8,530	11,500	35,800	19,200	e14,800	21,200	18,500	9,550
18	30,600	13,000	10,700	10,200	8,430	11,800	36,400	18,400	e15,400	e21,700	18,600	9,440
19	29,500	12,500	11,100	10,000	8,270	11,800	36,500	17,700	e16,000	e22,300	18,000	9,170
20	28,700	12,200	11,200	10,000	8,210	11,900	36,800	16,800	e16,600	e22,900	17,800	8,800
21	27,900	12,100	10,600	10,000	8,010	12,400	36,600	16,300	e16,900	e23,400	17,200	8,170
22	27,300	11,700	10,300	10,100	8,040	12,500	34,900	15,900	e17,200	e23,900	16,800	8,550
23	26,800	11,200	10,100	10,600	7,940	13,100	34,800	15,400	e17,500	e24,200	16,200	8,410
24	26,100	10,900	10,600	10,200	7,590	13,000	35,200	14,700	e17,800	e24,300	15,900	8,260
25	25,100	11,500	10,400	9,920	7,970	12,900	32,200	14,400	e17,900	e24,300	16,000	7,890
26	24,600	11,400	10,200	9,670	7,980	13,600	30,000	13,900	e17,600	e23,900	e16,000	7,470
27	24,100	11,000	9,870	9,690	7,680	13,200	30,300	13,400	e17,100	23,300	e15,900	7,480
28	23,200	10,900	9,910	9,770	8,020	14,100	28,800	12,800	e16,900	23,000	e15,700	7,490
29	23,100	10,900	10,100	9,170	---	15,300	27,000	12,600	16,500	e21,600	e15,300	7,600
30	22,200	10,800	10,800	9,160	---	16,200	26,400	12,100	15,900	e20,700	e14,900	7,460
31	21,600	---	11,100	9,210	---	17,300	---	12,000	---	e19,900	e14,800	---
TOTAL	866,500	436,900	344,280	326,990	237,840	365,610	885,400	592,200	430,900	623,200	536,600	305,230
MEAN	27,950	14,560	11,110	10,550	8,494	11,790	29,510	19,100	14,360	20,100	17,310	10,170
MAX	33,700	20,900	12,100	12,000	9,310	17,300	36,800	26,700	17,900	24,300	19,400	14,400
MIN	21,600	10,800	9,870	9,160	7,590	8,390	18,100	12,000	11,100	15,900	14,800	7,460
IN.	3.34	1.69	1.33	1.26	0.92	1.41	3.42	2.29	1.66	2.40	2.07	1.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

MEAN	8,760	7,541	7,805	9,710	12,190	15,170	15,530	10,850	8,341	8,234	9,014	9,105
MAX	27,950	33,030	32,630	27,320	27,450	40,960	57,260	28,690	21,690	20,100	22,190	27,910
(WY)	(2005)	(1948)	(1948)	(1948)	(1998)	(1998)	(1948)	(1973)	(1959)	(2005)	(1991)	(1964)
MIN	3,010	3,207	2,581	2,169	2,401	3,638	4,557	3,098	2,462	2,421	2,610	3,272
(WY)	(2003)	(2002)	(2002)	(2002)	(2002)	(2000)	(2002)	(2002)	(2000)	(2000)	(2000)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL TOTAL	3,440,990		5,951,650			
ANNUAL MEAN	9,402		16,310		10,170	
HIGHEST ANNUAL MEAN					24,560	1948
LOWEST ANNUAL MEAN					3,275	2002
HIGHEST DAILY MEAN	33,700	Oct 12	36,800	Apr 20	84,700	Apr 14, 1948
LOWEST DAILY MEAN	2,950	Aug 12	7,460	Sep 30	1,070	Feb 6, 2002
ANNUAL SEVEN-DAY MINIMUM	3,270	May 30	7,660	Sep 24	1,920	Jan 8, 2002
MAXIMUM PEAK FLOW			41,800	Apr 21	84,700	Apr 14, 1948
MAXIMUM PEAK STAGE			14.69	Apr 19	22.32	Apr 14, 1948
INSTANTANEOUS LOW FLOW			5,030	Sep 26	271	Nov 6, 2002
ANNUAL RUNOFF (INCHES)	13.28		22.97		14.34	
10 PERCENT EXCEEDS	20,600		27,300		18,400	
50 PERCENT EXCEEDS	5,540		14,100		8,080	
90 PERCENT EXCEEDS	3,640		8,900		4,410	

e Estimated

02323500 SUWANNEE RIVER NEAR WILCOX, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.96	11.11	6.47	6.21	5.25	4.95	9.73	12.11	6.60	8.12	---	---
2	11.36	10.89	6.48	6.33	5.22	4.83	10.21	11.79	6.56	8.05	9.26	---
3	11.77	10.67	6.55	6.41	5.22	4.94	10.48	11.47	6.43	8.09	9.03	---
4	12.17	10.45	6.62	6.45	5.15	5.13	10.71	11.21	6.32	8.18	8.88	---
5	12.51	10.23	6.66	6.51	5.05	5.32	10.98	11.13	6.25	8.28	8.70	---
6	12.81	9.95	6.72	6.57	5.13	5.49	11.27	11.00	6.27	8.40	8.63	6.69
7	13.07	9.68	6.79	6.58	5.32	5.68	11.63	10.82	6.34	8.55	8.58	6.55
8	13.32	9.45	6.83	6.54	5.54	6.29	12.02	10.66	6.44	8.64	8.60	6.43
9	13.56	9.22	6.76	6.47	5.69	6.09	12.29	10.54	6.57	8.75	8.68	6.32
10	13.79	8.95	6.82	6.35	5.77	6.06	12.56	10.43	6.58	9.03	8.80	6.24
11	14.01	8.76	6.72	6.29	5.31	6.25	12.84	10.33	6.70	9.40	8.91	6.17
12	14.18	8.64	6.44	6.27	5.14	6.34	13.14	10.21	6.95	9.30	8.99	6.07
13	14.29	8.53	6.39	6.26	5.26	6.41	13.49	10.07	6.93	9.22	9.08	6.01
14	14.33	8.23	6.24	6.32	5.39	6.47	13.82	9.91	6.93	9.23	9.14	5.99
15	14.36	7.87	5.96	5.83	5.29	6.38	14.10	9.74	7.08	9.36	9.16	5.95
16	14.28	7.63	5.86	5.53	5.09	6.36	14.32	9.54	7.32	9.53	9.14	5.91
17	14.16	7.48	5.94	5.41	5.05	6.42	14.49	9.33	7.56	9.74	9.12	5.86
18	14.01	7.33	6.03	5.42	4.77	6.29	14.61	9.10	7.82	9.93	9.07	5.80
19	13.84	7.21	6.07	5.49	4.63	6.28	14.67	8.85	8.11	10.14	9.00	5.74
20	13.74	7.12	5.96	5.65	4.75	6.44	14.67	8.61	8.34	10.35	8.90	5.47
21	13.55	7.00	5.88	5.81	4.94	6.66	14.62	8.41	8.54	10.64	8.77	5.12
22	13.32	6.87	5.92	5.96	4.96	6.91	14.51	8.19	8.75	10.76	8.60	5.67
23	13.09	6.78	6.09	6.01	4.87	7.17	14.37	7.96	8.91	---	8.44	5.57
24	12.87	6.81	5.85	5.62	4.98	7.26	14.18	7.78	8.98	---	8.24	5.36
25	12.66	7.01	5.56	5.68	4.86	7.42	13.92	7.60	8.97	---	8.02	5.14
26	12.44	6.63	5.49	5.80	4.64	7.70	13.67	7.38	8.88	---	7.74	5.02
27	12.21	6.41	5.34	5.81	4.77	8.01	13.41	7.20	8.75	10.71	---	4.84
28	11.99	6.49	5.38	5.49	5.24	8.36	13.08	7.03	8.61	10.52	---	4.89
29	11.81	6.35	5.60	5.35	---	8.68	12.72	6.85	8.40	---	---	4.93
30	11.59	6.36	5.85	5.59	---	8.99	12.38	6.67	8.24	---	---	4.88
31	11.35	---	6.07	5.43	---	9.34	---	6.63	---	---	---	---
TOTAL	403.40	246.11	191.34	185.44	143.28	204.92	388.89	288.55	225.13	---	---	---
MEAN	13.01	8.20	6.17	5.98	5.12	6.61	12.96	9.31	7.50	---	---	---
MAX	14.36	11.11	6.83	6.58	5.77	9.34	14.67	12.11	8.98	---	---	---
MIN	10.96	6.35	5.34	5.35	4.63	4.83	9.73	6.63	6.25	---	---	---

02323502 FANNING SPRING NEAR WILCOX, FL

LOCATION.--Lat 29° 35'20", long 82° 56'00", in NW 1/4 sec. 29, T. 10 S., R.14 E., Levy County, Hydrologic Unit 03110205, on left bank of spring run, .75 mi downstream of spring vent, and 1.8 mi southwest of Wilcox.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1930 to June 1998 (miscellaneous discharge measurements), June 2001 to current year.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records poor. Discharge computed from continuous velocity record obtained from water-current meter. Flow affected by tide. The Suwannee River flow can back up into the spring run during periods of high flow producing negative velocities and discharges. Flows recorded during these periods could contain a mixture of river and spring flow, or be totally river flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	102	71	29	83	81	23	-16	65	74	124	84
2	159	96	65	6.8	82	83	27	-39	69	78	112	82
3	182	98	62	-2.1	80	80	12	-22	72	79	108	81
4	204	85	60	0.98	83	74	5.2	-15	73	92	101	81
5	219	70	51	-2.0	84	74	3.9	-20	73	108	93	76
6	241	56	43	2.6	82	71	11	-1.8	73	108	91	72
7	243	58	39	14	78	66	15	5.8	67	112	92	71
8	242	52	53	40	74	12	60	12	65	122	93	73
9	240	44	58	55	70	49	82	26	64	123	97	73
10	222	40	60	66	72	42	98	33	61	120	102	75
11	198	54	63	65	80	0.56	81	38	62	130	110	76
12	202	44	69	64	81	-3.4	42	44	67	127	115	78
13	212	46	72	63	79	5.8	34	59	68	131	118	80
14	242	49	70	65	76	4.8	4.4	74	72	133	124	82
15	230	50	78	79	81	42	7.7	76	76	137	127	80
16	221	48	77	82	81	47	-18	77	73	135	131	84
17	213	58	76	83	82	30	-65	72	86	144	134	84
18	222	55	73	83	85	54	-42	73	88	152	127	87
19	218	60	72	81	86	53	-34	68	94	155	121	83
20	227	68	75	79	83	12	2.2	65	100	158	120	91
21	219	66	75	71	84	-17	5.7	69	99	169	112	96
22	190	77	74	72	81	-34	28	66	103	183	107	85
23	178	71	74	70	80	-43	34	59	104	184	103	87
24	156	73	76	70	80	-40	30	58	105	180	98	91
25	141	69	83	73	81	-39	53	60	101	175	95	94
26	126	71	83	74	82	-34	34	53	99	170	91	94
27	111	77	88	72	81	-26	34	52	92	173	87	95
28	113	72	87	77	80	-17	28	60	89	163	81	93
29	115	70	79	81	---	-4.9	12	65	88	159	84	92
30	109	75	69	76	---	3.5	-3.7	67	77	144	87	90
31	98	---	58	79	---	15	---	66	---	138	88	---
MEAN	189	65.1	68.8	57.1	80.4	20.7	20.1	41.4	80.8	137	106	83.7
MAX	243	102	88	83	86	83	98	77	105	184	134	96
MIN	98	40	39	-2.1	70	-43	-65	-39	61	74	81	71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	106	69.9	77.2	75.3	63.5	3.19	21.1	65.6	72.2	81.9	84.2	77.7
MAX	189	88.3	99.0	102	102	21.6	97.3	89.2	124	137	138	137
(WY)	(2005)	(2004)	(2004)	(2004)	(2003)	(2002)	(2004)	(2004)	(2004)	(2005)	(2004)	(2004)
MIN	53.0	46.6	46.8	50.9	18.0	-39.9	-76.3	41.4	28.5	37.6	57.0	45.8
(WY)	(2002)	(2002)	(2002)	(2002)	(2004)	(2003)	(2003)	(2005)	(2001)	(2001)	(2001)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL MEAN	96.0		79.3		69.2	
HIGHEST ANNUAL MEAN					92.2	2004
LOWEST ANNUAL MEAN					49.1	2002
HIGHEST DAILY MEAN	247	Sep 5	243	Oct 7	247	Sep 5, 2004
LOWEST DAILY MEAN	-108	Mar 4	-65	Apr 17	-108	Apr 10, 2003
ANNUAL SEVEN-DAY MINIMUM	-99	Feb 29	-33	Mar 21	-107	Apr 8, 2003
MAXIMUM PEAK FLOW			318	Oct 18	400	Oct 14, 2004
MAXIMUM PEAK STAGE			14.75	Apr 19	14.75	Apr 19, 2005
10 PERCENT EXCEEDS	156		147		120	
50 PERCENT EXCEEDS	96		76		74	
90 PERCENT EXCEEDS	50		7.3		15	

02323505 LITTLE FANNING SPRINGS NEAR WILCOX, FL

LOCATION.--Lat 29°35'15", long 82°56'08", in NW 1/4 sec. 29, T 10 S., R. 14 E., Levy County, Hydrologic Unit 03110205, at head of springs in Fanning Springs State Park, 500 ft southeast of Fanning Spring, 0.3 mi downstream from U.S. Highway 19 bridge, and 1.8 mi southwest of Wilcox.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--1985 (miscellaneous measurement), October 2002 to current year (discharge measurements).

GAGE.--Non recording gage. Datum of gage is not determined.

EXTREMES FOR PERIOD OF RECORD.--Maximum measured discharge, 26 ft^3/s, May 8, 2003, June 29, 2005; minimum measured discharge, 0.89 ft^3/s, July 1, 2004; maximum gage height, 14.70 ft, June 29, 2005; minimum gage height, 10.81, July 1, 2004.

EXTREMES FOR CURRENT YEAR.-- Maximum measured discharge, 26 ft^3/s, June 29, gage height, 14.70 ft; minimum measured discharge, 0.26 ft^3/s, June 29, gage height, 14.70 ft.

DISCHARGE MEASUREMENTS, OCTOBER 2004 TO SEPTEMBER 2005

DATE	TIME	STREAM STAGE	DISCHARGE IN FT3/S
JUNE 29	1049	14.70	26

02323566 MANATEE SPRING NEAR CHIEFLAND, FL

LOCATION.--Lat 29° 29'24", long 82° 58'37", in SE 1/4 sec. 26, T. 11 S., R.13 E., Levy County, Hydrologic Unit 03110205, on left bank of Suwannee River at Manatee Spring State Park, and 7.2 mi west of Chiefland.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1932 to June 1998 (miscellaneous measurements), January 2001 to current year.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow affected by tide. Discharge computed from continuous velocity record obtained from water-current meter. The Suwannee River flow can back up into the spring run during periods of high flow producing large negative or positive velocities and discharges. Flows recorded during these periods could contain a mixture of river and spring flow, or be totally river flow.

REVISIONS.--Daily and monthly discharges for the water years 2003-2004 were revised.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	168	263	e251	288	285	153	e102	218	255	182	253
2	222	143	274	e246	293	285	70	e98	223	265	223	237
3	219	168	265	e240	281	288	47	e89	220	260	255	220
4	269	181	262	233	296	286	9.9	69	221	252	269	206
5	310	210	255	228	301	274	2.0	59	227	250	279	218
6	340	247	244	220	283	268	33	65	226	248	277	233
7	366	298	234	220	261	247	13	76	227	231	274	243
8	403	309	236	221	226	183	19	74	215	236	281	249
9	405	339	234	229	213	234	e28	71	208	226	286	252
10	397	379	238	238	214	231	e35	76	200	121	273	243
11	415	375	239	230	299	202	55	92	201	47	262	251
12	453	361	266	222	291	216	66	97	204	137	252	259
13	488	355	252	217	261	219	104	133	199	202	239	244
14	546	372	277	231	247	223	139	130	200	205	224	227
15	538	344	323	298	265	236	160	167	201	200	224	224
16	369	322	315	329	291	239	161	195	218	175	206	217
17	370	312	288	334	289	229	e165	237	230	144	217	213
18	353	292	e277	324	311	247	e171	281	225	112	205	210
19	369	282	275	305	302	250	e177	307	226	90	207	211
20	392	276	298	278	301	235	192	315	e240	e73	222	254
21	371	266	288	243	289	216	210	319	e240	57	235	276
22	287	262	e274	231	292	209	208	326	e240	66	245	191
23	236	259	e275	241	292	228	215	319	e242	99	257	215
24	207	267	e293	292	278	231	e207	308	e242	108	272	244
25	195	293	313	259	288	237	e173	303	e240	114	285	267
26	192	272	324	233	291	247	e143	283	e236	85	272	265
27	183	274	334	228	261	252	e123	260	e236	81	257	268
28	161	260	320	290	236	237	e121	248	e237	87	265	253
29	161	278	293	280	---	243	e113	232	249	101	277	251
30	154	272	268	243	---	230	e87	238	251	105	274	253
31	164	---	e256	270	---	198	---	234	---	144	268	---
MEAN	315	281	276	255	276	239	113	187	225	154	250	238
MAX	546	379	334	334	311	288	215	326	251	265	286	276
MIN	154	143	234	217	213	183	2.0	59	199	47	182	191

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	176	160	160	157	149	146	120	128	128	127	154	172
MAX	315	281	276	255	276	239	188	187	225	160	250	252
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2005)	(2003)	(2005)	(2004)
MIN	99.8	101	101	100	99.4	97.1	94.3	99.2	85.2	84.3	84.3	84.4
(WY)	(2003)	(2003)	(2003)	(2003)	(2001)	(2001)	(2001)	(2001)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL MEAN	199		234		155	
HIGHEST ANNUAL MEAN					234	2005
LOWEST ANNUAL MEAN					98.3	2002
HIGHEST DAILY MEAN	546	Oct 14	546	Oct 14	546	Oct 14, 2004
LOWEST DAILY MEAN	89	Aug 12	2.0	Apr 5	2.0	Apr 5, 2005
ANNUAL SEVEN-DAY MINIMUM	103	Jun 14	20	Apr 4	20	Apr 4, 2005
MAXIMUM PEAK FLOW			668	Oct 15	668	Oct 15, 2004
MAXIMUM PEAK STAGE			10.10	Apr 20	10.10	Apr 20, 2005
10 PERCENT EXCEEDS	312		314		259	
50 PERCENT EXCEEDS	170		240		134	
90 PERCENT EXCEEDS	129		107		88	

e Estimated

02323566 MANATEE SPRING NEAR CHIEFLAND, FL

LOCATION.--Lat 29° 29'24", long 82° 58'37", in SE 1/4 sec. 26, T. 11 S., R.13 E., Levy County, Hydrologic Unit 03110205, on left bank of Suwannee River at Manatee Spring State Park, and 7.2 mi west of Chiefland.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1932 to June 1998 (miscellaneous measurements), January 2001 to current year.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow affected by tide. Discharge computed from continuous velocity record obtained from water-current meter. The Suwannee River flow can back up into the spring run during periods of high flow producing large negative or positive velocities and discharges. Flows recorded during these periods could contain a mixture of river and spring flow, or be totally river flow. Daily and monthly discharges for the year were revised.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	97	102	104	94	104	103	102	e106	159	170	169
2	99	97	93	110	106	106	102	97	e106	149	170	169
3	99	101	99	98	115	108	99	103	e105	154	170	169
4	99	108	112	93	105	107	102	106	e105	153	168	169
5	102	98	111	91	104	106	101	96	e104	157	167	168
6	98	101	114	95	101	107	103	109	e105	152	167	170
7	103	99	106	97	102	97	100	111	e108	153	167	171
8	101	101	101	86	101	95	113	102	e104	153	166	169
9	94	101	101	110	105	99	106	105	e106	154	167	e174
10	100	104	98	101	102	104	95	115	e102	155	166	e179
11	101	105	108	92	96	107	99	109	e97	157	166	e181
12	102	108	103	93	90	107	99	101	e94	156	166	179
13	102	102	97	103	99	114	103	103	e87	152	164	168
14	96	e101	111	102	97	104	103	103	e85	150	166	158
15	101	99	98	101	108	91	102	108	e87	146	166	157
16	e100	102	108	99	113	109	101	109	e89	e145	166	152
17	110	107	97	105	108	91	102	101	e87	e146	166	170
18	103	103	100	93	102	95	102	104	e87	151	164	164
19	101	103	86	97	99	96	97	107	e98	153	166	162
20	104	104	93	103	92	98	96	104	e108	156	166	180
21	102	104	95	108	95	97	102	104	e107	165	166	179
22	98	e100	100	108	88	97	103	114	e113	178	167	167
23	94	e102	93	118	93	107	89	106	e122	175	166	166
24	95	104	116	97	96	103	101	104	e129	175	168	173
25	93	100	104	102	109	100	102	104	145	175	167	180
26	104	96	107	97	106	99	93	e107	146	175	167	178
27	97	97	90	101	102	100	96	e106	158	175	165	178
28	96	e98	96	97	107	101	104	e108	153	174	168	177
29	99	e99	104	96	---	100	96	e105	152	169	167	215
30	100	100	111	99	---	101	106	e108	156	169	e170	232
31	100	---	90	103	---	102	---	e106	---	168	171	---
MEAN	99.8	101	101	100	101	102	101	105	112	160	167	174
MAX	110	108	116	118	115	114	113	115	158	178	171	232
MIN	93	96	86	86	88	91	89	96	85	145	164	152

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

MEAN	103	103	103	105	104	101	98.9	102	98.0	116	120	123
MAX	106	104	104	111	111	104	102	105	112	160	167	174
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	99.8	101	101	100	99.4	97.1	94.3	99.2	85.2	84.3	84.3	84.4
(WY)	(2003)	(2003)	(2003)	(2003)	(2001)	(2001)	(2001)	(2001)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL MEAN	97.4		119		109	
HIGHEST ANNUAL MEAN					119	2003
LOWEST ANNUAL MEAN					98.3	2002
HIGHEST DAILY MEAN	169	Jan 4	232	Sep 30	232	Sep 30, 2003
LOWEST DAILY MEAN	78	Jun 11	85	Jun 14	78	Jun 11, 2002
ANNUAL SEVEN-DAY MINIMUM	82	Sep 8	88	Jun 12	82	Sep 8, 2002
MAXIMUM PEAK FLOW			294	Sep 29	294	Sep 29, 2003
MAXIMUM PEAK STAGE			8.37	Mar 27	8.37	Mar 27, 2003
INSTANTANEOUS LOW FLOW			13	Oct 26	13	Oct 26, 2002
10 PERCENT EXCEEDS	111		168		159	
50 PERCENT EXCEEDS	98		104		102	
90 PERCENT EXCEEDS	83		95		85	

e Estimated

02323566 MANATEE SPRING NEAR CHIEFLAND, FL

LOCATION.--Lat 29° 29'24", long 82° 58'37", in SE 1/4 sec. 26, T. 11 S., R.13 E., Levy County, Hydrologic Unit 03110205, on left bank of Suwannee River at Manatee Spring State Park, and 7.2 mi west of Chiefland.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1932 to June 1998 (miscellaneous measurements), January 2001 to current year.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow affected by tide. Discharge computed from continuous velocity record obtained from water-current meter. The Suwannee River flow can back up into the spring run during periods of high flow producing large negative or positive velocities and discharges. Flows recorded during these periods could contain a mixture of river and spring flow, or be totally river flow. Daily and monthly discharges for the year were revised.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	172	164	168	164	140	222	154	142	129	135	197
2	221	171	170	163	158	135	225	146	138	132	139	201
3	221	164	157	167	157	140	226	146	141	130	146	189
4	217	118	153	166	161	129	206	146	138	129	146	202
5	214	126	156	160	158	129	211	133	134	137	134	194
6	172	124	163	171	152	125	205	130	129	147	144	111
7	176	126	159	169	158	133	193	135	129	143	158	269
8	189	131	156	155	178	139	193	141	133	136	153	329
9	192	167	149	151	161	150	205	140	129	136	154	361
10	196	178	116	171	168	163	213	135	130	126	151	327
11	189	161	166	159	169	170	203	146	125	104	148	298
12	190	138	160	150	172	173	202	146	120	115	89	321
13	194	149	157	149	179	175	189	140	110	121	137	363
14	180	180	150	153	168	185	209	146	100	115	151	363
15	194	148	170	153	177	194	196	153	95	108	154	308
16	189	156	160	161	187	181	186	152	106	125	163	234
17	185	171	164	155	185	191	183	158	103	114	163	218
18	187	148	158	153	186	209	182	158	107	121	160	219
19	182	112	156	170	181	198	178	155	105	151	165	249
20	183	182	164	173	134	201	176	154	104	163	171	242
21	174	163	164	163	119	191	171	158	118	161	173	253
22	167	162	163	161	121	237	173	155	104	160	174	245
23	166	145	159	164	124	258	164	160	117	153	180	238
24	159	135	149	161	91	248	161	156	110	147	184	234
25	156	169	168	162	98	239	172	163	112	138	186	249
26	161	159	171	166	116	239	168	162	135	135	176	247
27	149	155	164	184	144	237	168	156	135	133	185	194
28	113	157	164	180	165	245	158	150	137	135	184	223
29	154	182	159	153	160	242	156	157	136	136	185	240
30	173	168	166	152	---	233	156	149	131	130	175	235
31	176	---	167	162	---	229	---	145	---	134	183	---
MEAN	182	154	159	162	155	189	188	149	122	134	160	252
MAX	228	182	171	184	187	258	226	163	142	163	186	363
MIN	113	112	116	149	91	125	156	130	95	104	89	111

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

MEAN	129	120	122	124	117	123	121	114	104	121	130	155
MAX	182	154	159	162	155	189	188	149	122	160	167	252
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)
MIN	99.8	101	101	100	99.4	97.1	94.3	99.2	85.2	84.3	84.3	84.4
(WY)	(2003)	(2003)	(2003)	(2003)	(2001)	(2001)	(2001)	(2001)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL MEAN	135		167		128	
HIGHEST ANNUAL MEAN					167	2004
LOWEST ANNUAL MEAN					98.3	2002
HIGHEST DAILY MEAN	232	Sep 30	363	Sep 13	363	Sep 13, 2004
LOWEST DAILY MEAN	85	Jun 14	89	Aug 12	78	Jun 11, 2002
ANNUAL SEVEN-DAY MINIMUM	88	Jun 12	103	Jun 14	82	Sep 8, 2002
MAXIMUM PEAK FLOW			450	Sep 14	450	Sep 14, 2004
MAXIMUM PEAK STAGE			6.94	Sep 27	8.37	Mar 27, 2003
10 PERCENT EXCEEDS	175		221		178	
50 PERCENT EXCEEDS	131		161		108	
90 PERCENT EXCEEDS	97		125		87	

02323592 SUWANNEE RIVER ABOVE GOPHER RIVER NEAR SUWANNEE, FL

LOCATION.-- Lat 29° 20'19", long 83° 05'13", in NE1/4 sec. 22, T. 13S., R. 12E., Dixie County, Hydrologic Unit 03110205, on right bank, 0.6 mi downstream of Flag Creek, 1.9 mi upstream of Gopher River, 4.8 mi upstream of the town of Suwannee, and 7.6 mi above the mouth.

DRAINAGE AREA.--9,973 mi^2, revised.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage and water-current meter recorders. Datum of gage is 2.10 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for estimated daily discharges which are poor. Flow affected by tide.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22,900	24,200	13,500	12,600	10,200	11,200	18,900	e29,800	11,100	16,300	20,000	14,300
2	24,000	23,900	13,100	12,900	10,800	11,200	23,300	29,500	12,500	16,400	19,200	13,500
3	25,200	24,200	13,700	13,500	9,490	10,600	24,300	28,300	12,400	15,600	18,100	13,500
4	26,100	22,300	13,700	13,500	11,600	10,800	23,900	26,600	12,100	16,100	17,800	12,800
5	27,800	24,800	13,700	13,100	10,300	11,000	23,700	25,800	12,500	16,300	17,400	13,400
6	29,200	22,500	13,200	13,300	9,790	11,700	23,500	26,600	12,300	15,300	17,200	12,600
7	30,500	20,500	13,100	13,700	10,300	10,200	22,500	24,800	12,700	16,900	16,800	12,200
8	31,000	20,400	14,600	13,400	9,900	13,400	26,700	23,200	12,700	17,000	16,800	12,100
9	29,700	20,800	12,800	13,900	10,000	13,800	28,200	23,000	13,300	16,300	17,300	11,500
10	30,200	18,100	13,500	13,300	12,000	12,800	28,600	22,700	13,400	9,030	18,200	10,900
11	30,000	16,500	15,400	12,600	12,200	12,100	28,800	23,300	8,900	21,900	17,800	10,900
12	31,800	15,700	13,500	12,400	10,200	12,800	28,500	22,300	15,900	21,500	18,000	10,500
13	31,700	18,800	13,200	10,400	9,010	12,400	30,400	22,200	15,200	19,600	17,800	10,100
14	32,800	19,400	14,500	14,400	9,330	13,200	33,000	21,300	14,400	18,500	18,100	9,810
15	31,800	17,000	13,600	13,600	11,200	14,100	35,700	21,100	14,200	18,400	18,500	10,000
16	33,700	15,400	12,300	12,400	9,550	12,600	36,000	20,700	14,500	18,300	18,000	9,310
17	32,800	15,100	12,000	12,200	10,600	13,900	e36,300	20,100	14,900	19,500	18,000	9,530
18	32,700	14,300	12,100	12,000	11,000	14,300	e36,200	19,200	15,700	19,600	17,000	9,120
19	32,500	13,700	12,700	10,900	9,880	13,200	e36,200	18,400	16,800	19,700	17,200	9,730
20	33,200	13,600	13,400	11,100	9,090	13,100	e36,200	17,000	17,300	19,900	16,800	10,600
21	34,200	14,000	11,800	11,100	9,540	13,700	e35,900	17,200	16,600	20,900	16,700	7,020
22	33,800	13,300	11,000	11,000	9,950	13,400	e35,400	17,100	16,700	21,600	16,600	9,290
23	32,400	12,600	12,300	14,300	9,570	15,000	e34,900	15,800	17,600	22,600	16,700	9,050
24	29,700	10,700	13,400	11,700	9,370	15,600	e34,400	14,400	18,600	23,100	16,100	9,280
25	29,500	16,200	11,900	11,100	10,500	14,800	e33,700	15,100	18,600	23,600	16,900	8,780
26	29,100	14,700	12,800	10,400	9,600	16,500	e32,600	14,200	17,500	23,100	16,100	8,480
27	28,400	11,500	11,600	12,000	6,260	15,800	e31,900	14,000	17,900	23,400	11,600	8,370
28	27,500	14,200	11,700	12,100	10,900	16,100	e31,100	13,900	18,000	23,200	12,600	8,320
29	26,900	13,100	11,500	9,880	---	19,500	e30,500	14,000	17,100	22,200	13,100	8,100
30	26,400	12,500	11,900	10,300	---	18,600	e30,100	12,800	16,800	21,300	14,100	8,210
31	25,800	---	12,300	11,300	---	19,200	---	12,500	---	21,000	15,100	---
MEAN	29,780	17,130	12,900	12,270	10,080	13,760	30,380	20,220	14,940	19,290	16,830	10,380
MAX	34,200	24,800	15,400	14,400	12,200	19,500	36,300	29,800	18,600	23,600	20,000	14,300
MIN	22,900	10,700	11,000	9,880	6,260	10,200	18,900	12,500	8,900	9,030	11,600	7,020
MED	30,000	15,900	13,100	12,400	9,990	13,400	30,800	20,700	15,000	19,600	17,200	9,910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	9,080	6,768	5,871	6,116	6,179	10,560	13,420	7,949	6,784	7,644	7,902	8,327
MAX	29,780	17,130	12,900	12,270	10,080	22,120	30,380	20,220	14,940	19,290	16,830	16,960
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	2,711	3,468	3,287	3,046	3,156	4,682	4,381	2,891	2,553	2,893	2,831	2,258
(WY)	(2003)	(2002)	(2002)	(2002)	(2002)	(2000)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	10,790		17,380		8,189	
HIGHEST ANNUAL MEAN					17,380	2005
LOWEST ANNUAL MEAN					3,403	2002
HIGHEST DAILY MEAN	34,200	Oct 21	36,300	Apr 17	36,300	Apr 17, 2005
LOWEST DAILY MEAN	-935	Sep 6	6,260	Feb 27	-935	Sep 6, 2004
ANNUAL SEVEN-DAY MINIMUM	3,970	Jun 8	8,510	Sep 24	1,590	Sep 6, 2002
MAXIMUM PEAK FLOW			38,400	Apr 16	38,400	Apr 16, 2005
MAXIMUM PEAK STAGE			5.49	Jul 10	5.86	Jul 23, 2001
INSTANTANEOUS LOW FLOW			-17,300	Jul 10	-17,800	Nov 6, 2002
10 PERCENT EXCEEDS	23,600		29,700		16,800	
50 PERCENT EXCEEDS	7,000		15,100		5,840	
90 PERCENT EXCEEDS	4,410		10,200		2,940	

e Estimated

02323592 SUWANNEE RIVER ABOVE GOPHER RIVER NEAR SUWANNEE, FL—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.35	2.44	1.69	1.63	1.63	1.56	2.05	2.41	2.00	1.77	1.57	1.21
2	2.32	2.43	1.56	1.68	1.58	1.30	2.03	2.21	2.01	1.78	1.53	1.19
3	2.29	2.30	1.52	1.59	1.74	1.34	1.78	2.10	1.96	1.83	1.53	1.11
4	2.31	2.26	1.58	1.58	1.36	1.42	1.88	2.08	1.96	1.79	1.52	1.11
5	2.30	1.96	1.56	1.68	1.46	1.45	2.03	2.14	1.85	1.77	1.49	0.91
6	2.29	1.81	1.72	1.71	1.58	1.48	2.26	2.00	1.81	1.90	1.47	0.85
7	2.27	1.87	1.80	1.70	1.76	1.70	2.55	2.03	1.77	1.87	1.48	0.79
8	2.32	1.93	1.78	1.74	2.04	2.11	2.55	2.14	1.80	1.79	1.48	0.77
9	2.50	1.73	1.82	1.68	2.12	1.52	2.40	2.19	1.83	1.89	1.45	0.81
10	2.62	1.84	2.01	1.68	2.07	1.61	2.39	2.16	1.76	2.65	1.42	0.90
11	2.74	2.13	1.71	1.81	1.43	1.89	2.44	2.06	2.25	2.35	1.40	0.88
12	2.74	2.35	1.49	1.91	1.61	1.73	2.57	2.06	2.06	1.87	1.37	0.90
13	2.79	2.26	1.72	2.13	1.90	1.84	2.63	2.02	1.82	1.72	1.36	1.02
14	2.75	1.66	1.35	1.80	2.01	1.84	2.53	2.01	1.76	1.72	1.39	1.14
15	2.83	1.59	1.03	1.23	1.78	1.59	2.39	1.96	1.77	1.74	1.37	1.13
16	2.71	1.73	1.24	1.14	1.73	1.77	2.37	1.83	1.81	1.76	1.41	1.22
17	2.71	1.81	1.45	1.03	1.69	1.70	2.41	1.70	1.83	1.74	1.46	1.18
18	2.70	1.82	1.57	1.12	1.33	1.35	2.48	1.72	1.92	1.81	1.57	1.19
19	2.70	1.91	1.50	1.36	1.35	1.44	2.59	1.75	1.83	1.87	1.58	1.15
20	2.66	1.97	1.18	1.51	1.55	1.53	2.66	1.86	1.82	1.93	1.59	0.79
21	2.53	1.91	1.50	1.75	1.71	1.68	2.71	1.94	1.92	1.95	1.58	0.80
22	2.41	1.93	1.72	1.89	1.67	1.90	2.72	1.78	2.05	1.94	1.55	1.33
23	2.38	2.04	1.97	1.57	1.66	1.89	2.79	1.84	2.04	1.90	1.49	1.17
24	2.49	2.28	1.45	1.29	1.84	1.77	2.62	1.99	1.96	1.84	1.43	0.98
25	2.52	2.17	1.34	1.62	1.64	1.98	2.59	1.87	1.86	1.78	1.17	0.90
26	2.49	1.57	1.25	1.90	1.51	1.99	2.71	1.84	1.91	1.76	0.80	0.88
27	2.43	1.88	1.22	1.81	1.90	2.12	2.69	1.86	1.91	1.70	1.33	0.86
28	2.45	1.81	1.25	1.38	1.98	2.22	2.45	1.80	1.77	1.61	1.79	0.93
29	2.48	1.65	1.47	1.67	---	1.87	2.45	1.73	1.80	1.60	1.68	0.95
30	2.47	1.75	1.57	1.95	---	1.91	2.50	1.74	1.77	1.65	1.63	0.88
31	2.44	---	1.66	1.65	---	1.95	---	1.84	---	1.60	1.34	---
MEAN	2.52	1.96	1.54	1.62	1.70	1.72	2.44	1.96	1.89	1.83	1.46	1.00
MAX	2.83	2.44	2.01	2.13	2.12	2.22	2.79	2.41	2.25	2.65	1.79	1.33
MIN	2.27	1.57	1.03	1.03	1.33	1.30	1.78	1.70	1.76	1.60	0.80	0.77

02323592 SUWANNEE RIVER ABOVE GOPHER RIVER NEAR SUWANNEE, FL—Continued

WATER-QUALITY RECORDS

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

REMARKS.--Water temperature records fair; salinity records fair. Water-quality measured at two elevations, 1.95 ft (top) and 10.02 ft (bottom) below NGVD of 1929.

TEMPERATURE, WATER TOP, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.8	22.6	19.5	14.7	15.5	18.3	20.6	20.2	---	25.4	26.8	26.6
2	24.9	22.8	19.1	14.6	15.5	17.9	20.5	20.4	---	25.7	26.3	26.6
3	25.1	22.8	18.5	14.6	15.7	17.5	19.7	20.6	---	26.2	26.2	26.8
4	25.2	22.8	17.7	14.7	15.7	17.1	19.5	---	---	26.7	26.1	26.7
5	25.3	22.2	16.9	14.9	15.8	16.9	19.7	---	---	27.2	26.1	26.5
6	25.1	21.4	17.1	15.5	16.0	16.9	19.9	---	---	27.6	25.7	26.3
7	24.8	20.9	17.4	16.0	16.3	17.1	19.8	---	---	27.8	25.5	26.0
8	24.4	20.5	18.0	16.8	16.7	17.3	19.4	---	---	27.9	25.4	25.7
9	24.3	20.4	18.7	17.6	17.1	16.4	19.4	---	---	27.7	25.5	25.6
10	24.2	20.2	19.4	18.2	17.5	15.8	19.7	---	---	26.7	26.0	25.7
11	24.1	20.3	18.8	18.4	16.8	16.1	19.7	---	---	26.6	26.3	25.8
12	23.9	20.4	18.0	18.7	16.4	16.2	19.9	---	---	27.0	26.8	25.8
13	23.9	20.5	17.7	19.2	16.5	16.8	20.2	---	---	27.2	27.1	25.8
14	23.5	20.3	17.2	19.2	16.5	17.5	20.0	---	---	27.5	27.3	25.8
15	23.0	19.8	16.1	18.5	17.0	17.8	19.4	---	---	27.5	27.5	25.7
16	22.1	19.7	15.7	17.7	17.7	17.8	19.1	---	26.6	27.6	27.7	25.6
17	22.2	19.5	16.0	17.0	18.5	17.6	18.7	---	27.2	27.9	28.0	25.8
18	22.3	19.3	16.1	16.2	18.3	17.1	18.7	---	27.1	28.1	28.1	26.0
19	22.6	19.5	16.2	15.8	18.1	17.0	19.0	---	26.9	28.2	28.1	26.2
20	22.9	19.8	15.4	16.0	18.2	17.3	19.3	---	27.1	28.3	27.8	26.1
21	22.9	20.2	14.8	16.1	18.0	17.5	19.6	---	26.9	28.4	27.3	26.2
22	22.6	20.6	15.0	16.5	18.4	17.9	19.8	---	26.8	28.4	27.5	26.1
23	22.2	20.9	15.7	16.1	19.2	17.8	19.8	---	26.9	28.6	27.5	25.6
24	22.0	21.0	16.0	14.8	19.6	17.5	19.2	---	26.9	28.5	27.3	25.7
25	22.1	20.8	15.4	14.6	19.5	17.9	18.9	---	26.6	28.5	27.4	25.7
26	22.2	19.7	14.8	14.6	18.9	18.1	18.9	---	26.4	28.4	27.0	25.9
27	22.1	19.3	14.5	15.4	18.6	18.6	19.4	---	26.3	28.4	26.9	25.9
28	21.9	19.1	14.7	15.7	18.6	19.3	19.7	---	25.8	28.4	26.7	26.1
29	22.1	19.0	15.2	15.7	---	19.3	19.9	---	25.4	28.3	26.6	25.7
30	22.4	19.3	15.8	16.2	---	19.8	20.3	---	25.7	27.4	26.8	25.6
31	22.5	---	15.6	16.0	---	20.3	---	---	---	27.0	26.7	---
MEAN	23.3	20.5	16.7	16.3	17.4	17.6	19.6	---	---	27.6	26.8	26.0
MAX	25.3	22.8	19.5	19.2	19.6	20.3	20.6	---	---	28.6	28.1	26.8
MIN	21.9	19.0	14.5	14.6	15.5	15.8	18.7	---	---	25.4	25.4	25.6

TEMPERATURE, WATER BOTTOM, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.8	22.6	19.4	14.7	15.5	18.2	20.6	20.2	24.4	25.3	26.7	26.5
2	24.9	22.8	19.1	14.5	15.5	17.8	20.4	20.3	24.3	25.6	26.3	26.5
3	25.2	---	18.5	14.5	15.7	17.5	19.6	20.6	24.3	26.0	26.2	26.7
4	25.2	---	17.6	14.6	15.7	17.0	19.5	---	24.3	26.6	26.0	26.6
5	25.3	---	16.9	14.9	15.7	16.9	19.6	---	24.4	27.1	26.0	26.4
6	25.1	---	17.0	15.5	15.9	16.7	19.9	---	25.0	27.4	25.6	26.2
7	24.8	---	17.4	16.0	16.2	17.0	19.7	---	25.3	27.7	25.5	25.9
8	24.3	---	18.0	16.7	16.5	17.3	19.4	---	25.7	27.8	25.3	25.6
9	24.2	---	18.6	17.5	16.9	16.4	19.4	---	25.8	27.6	25.4	25.5
10	24.2	---	19.4	18.1	17.5	15.7	19.7	---	25.7	26.6	25.9	25.6
11	24.0	---	18.8	18.3	16.8	15.9	19.6	---	25.7	26.5	26.2	25.7
12	23.9	---	18.0	18.7	16.3	16.1	19.9	---	25.8	26.8	26.7	25.7
13	23.9	---	17.6	19.1	16.4	16.7	20.2	---	25.7	27.1	27.0	25.7
14	23.4	---	17.1	19.1	16.5	17.4	20.0	---	25.7	27.4	27.2	25.7
15	22.9	---	16.0	18.4	16.9	17.8	19.3	---	26.2	27.4	27.4	25.6
16	21.9	---	15.7	17.6	17.6	17.7	18.9	---	26.5	27.6	27.7	25.5
17	22.1	---	15.9	16.9	18.4	17.6	18.5	23.2	27.1	27.8	27.9	25.7
18	22.2	---	16.1	16.1	18.2	17.1	18.5	23.3	27.0	28.0	28.0	25.9
19	22.6	---	16.1	15.7	18.0	16.9	18.8	23.6	26.8	28.1	28.0	26.0
20	22.9	---	15.4	15.9	18.1	17.2	19.3	23.8	27.0	28.2	27.7	26.0
21	22.9	---	14.8	16.0	18.0	17.5	19.5	24.0	26.8	28.3	27.2	26.1
22	22.6	---	14.9	16.4	18.3	17.9	19.8	23.8	26.7	28.3	27.3	26.1
23	22.2	---	15.6	16.0	19.1	17.8	19.8	23.9	26.7	28.5	27.4	25.5
24	21.9	---	15.9	14.7	19.5	17.5	19.0	24.1	26.8	28.4	27.2	25.6
25	22.1	---	15.4	14.5	19.4	17.8	18.6	24.3	26.5	28.4	27.3	25.6
26	22.2	---	14.7	14.6	18.9	18.1	18.7	23.9	26.3	28.3	26.9	25.8
27	22.0	---	14.4	15.3	18.6	18.6	19.3	23.9	26.3	28.3	26.8	25.8
28	21.9	---	14.6	15.6	18.5	19.2	19.6	24.0	25.7	28.3	26.6	25.9
29	22.1	---	15.1	15.6	---	19.3	19.8	24.1	25.4	28.3	26.6	25.5
30	---	---	15.7	16.1	---	19.8	20.3	24.4	25.6	27.4	26.7	25.4
31	22.6	---	15.5	15.9	---	20.3	---	24.4	---	26.9	26.6	---
MEAN	---	---	16.6	16.2	17.3	17.6	19.5	---	25.9	27.5	26.8	25.9
MAX	---	---	19.4	19.1	19.5	20.3	20.6	---	27.1	28.5	28.0	26.7
MIN	---	---	14.4	14.5	15.5	15.7	18.5	---	24.3	25.3	25.3	25.4

02323592 SUWANNEE RIVER ABOVE GOPHER RIVER NEAR SUWANNEE, FL—Continued

SALINITY, WATER TOP, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.08	0.14	0.11	0.14	0.15	0.04	0.07	---	0.10	0.10	0.12
2	0.05	0.09	0.13	0.10	0.14	0.15	0.04	0.08	---	0.11	0.10	0.12
3	0.04	0.09	0.12	0.09	0.14	0.14	0.04	0.08	---	0.11	0.11	0.12
4	0.04	0.09	0.11	0.09	0.14	0.13	0.04	---	---	0.10	0.11	0.12
5	0.04	0.10	0.11	0.09	0.14	0.11	0.04	---	---	0.09	0.11	0.12
6	0.04	0.10	0.11	0.09	0.14	0.09	0.04	---	---	0.08	0.12	0.12
7	0.04	0.10	0.11	0.09	0.14	0.09	0.04	---	---	0.07	0.11	0.12
8	0.04	0.11	0.11	0.09	0.13	0.09	0.04	---	---	0.07	0.11	0.12
9	0.04	0.11	0.11	0.10	0.13	0.08	0.04	---	---	0.06	0.10	0.13
10	0.04	0.11	0.11	0.11	0.13	0.08	0.04	---	---	0.72	0.09	0.13
11	0.04	0.12	0.12	0.11	0.13	0.08	0.04	---	---	0.06	0.08	0.13
12	0.04	0.12	0.12	0.12	0.13	0.08	0.04	---	---	0.06	0.07	0.14
13	0.04	0.12	0.12	0.12	0.13	0.07	0.03	---	---	0.07	0.07	0.14
14	0.04	0.13	0.13	0.12	0.13	0.07	0.03	---	---	0.07	0.07	0.14
15	0.04	0.13	0.13	0.13	0.13	0.07	0.03	---	---	0.06	0.07	0.15
16	0.04	0.14	0.13	0.13	0.13	0.08	0.03	---	0.10	0.05	0.07	0.15
17	0.04	0.14	0.13	0.13	0.14	0.08	0.03	---	0.08	0.05	0.07	0.15
18	0.04	0.14	0.13	0.13	0.14	0.09	0.03	---	0.07	0.04	0.07	0.15
19	0.04	0.14	0.13	0.13	0.14	0.09	0.03	---	0.07	0.04	0.08	0.15
20	0.04	0.14	0.12	0.13	0.14	0.09	0.03	---	0.06	0.04	0.08	0.16
21	0.05	0.14	0.12	0.12	0.14	0.08	0.04	---	0.06	0.04	0.09	0.16
22	0.05	0.14	0.12	0.12	0.14	0.07	0.04	---	0.05	0.04	0.09	0.25
23	0.05	0.15	0.13	0.12	0.14	0.06	0.04	---	0.05	0.04	0.10	0.16
24	0.06	0.15	0.13	0.12	0.14	0.06	0.04	---	0.05	0.04	0.11	0.16
25	0.06	0.14	0.14	0.12	0.14	0.06	0.04	---	0.06	0.04	0.11	0.16
26	0.06	0.15	0.14	0.12	0.14	0.05	0.04	---	0.06	0.05	0.12	0.16
27	0.07	0.15	0.14	0.12	0.14	0.05	0.05	---	0.07	0.05	0.12	0.17
28	0.07	0.15	0.14	0.12	0.15	0.05	0.05	---	0.09	0.06	0.12	0.17
29	0.07	0.15	0.14	0.13	---	0.05	0.06	---	0.09	0.07	0.12	0.17
30	0.08	0.15	0.14	0.13	---	0.05	0.07	---	0.10	0.08	0.12	0.17
31	0.08	---	0.12	0.13	---	0.04	---	---	---	0.09	0.12	---
MEAN	0.05	0.13	0.13	0.11	0.14	0.08	0.04	---	---	0.09	0.10	0.15
MAX	0.08	0.15	0.14	0.13	0.15	0.15	0.07	---	---	0.72	0.12	0.25
MIN	0.04	0.08	0.11	0.09	0.13	0.04	0.03	---	---	0.04	0.07	0.12

SALINITY, WATER BOTTOM, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.08	0.14	0.11	0.13	0.14	0.04	0.07	0.14	0.10	0.09	0.11
2	0.04	0.09	0.14	0.10	0.14	0.14	0.04	0.08	0.14	0.10	0.09	0.11
3	0.04	---	0.12	0.09	0.14	0.14	0.04	0.08	0.14	0.10	0.10	0.11
4	0.04	---	0.11	0.09	0.14	0.13	0.03	---	0.14	0.10	0.10	0.11
5	0.03	---	0.11	0.09	0.14	0.10	0.03	---	0.14	0.08	0.11	0.11
6	0.03	---	0.11	0.09	0.13	0.09	0.03	---	0.14	0.07	0.11	0.11
7	0.03	---	0.11	0.09	0.13	0.09	0.03	---	0.14	0.07	0.11	0.12
8	0.03	---	0.11	0.09	0.13	0.08	0.04	---	0.14	0.06	0.10	0.12
9	0.03	---	0.11	0.10	0.13	0.08	0.04	---	0.12	0.06	0.09	0.12
10	0.03	---	0.11	0.11	0.13	0.08	0.03	---	0.11	0.90	0.08	0.12
11	0.03	---	0.12	0.11	0.13	0.08	0.03	---	0.11	0.06	0.08	0.12
12	0.03	---	0.12	0.12	0.13	0.07	0.03	---	0.10	0.06	0.07	0.13
13	0.03	---	0.12	0.12	0.13	0.07	0.03	---	0.10	0.06	0.06	0.13
14	0.03	---	0.13	0.12	0.13	0.07	0.03	---	0.10	0.06	0.06	0.13
15	0.03	---	0.13	0.12	0.13	0.07	0.03	---	0.10	0.06	0.06	0.14
16	0.03	---	0.13	0.13	0.13	0.08	0.03	---	0.09	0.06	0.06	0.14
17	0.04	---	0.13	0.13	0.13	0.08	0.03	0.09	0.08	0.04	0.07	0.14
18	0.04	---	0.13	0.13	0.14	0.08	0.03	0.10	0.07	0.04	0.07	0.14
19	0.04	---	0.13	0.13	0.14	0.09	0.03	0.10	0.06	0.04	0.07	0.14
20	0.04	---	0.12	0.12	0.14	0.08	0.03	0.11	0.06	0.04	0.08	0.14
21	0.04	---	0.12	0.12	0.14	0.07	0.03	0.11	0.05	0.04	0.08	0.15
22	0.05	---	0.12	0.12	0.14	0.06	0.03	0.12	0.05	0.04	0.09	0.29
23	0.05	---	0.12	0.12	0.14	0.06	0.03	0.12	0.05	0.04	0.09	0.15
24	0.05	---	0.13	0.12	0.14	0.06	0.04	0.12	0.05	0.04	0.10	0.15
25	0.05	---	0.14	0.12	0.14	0.06	0.04	0.12	0.05	0.04	0.10	0.15
26	0.05	---	0.14	0.12	0.14	0.05	0.04	0.13	0.06	0.05	0.11	0.15
27	0.06	---	0.14	0.12	0.14	0.05	0.05	0.13	0.07	0.05	0.11	0.15
28	0.06	---	0.14	0.12	0.14	0.05	0.05	0.13	0.08	0.06	0.11	0.16
29	0.06	---	0.14	0.13	---	0.05	0.06	0.13	0.09	0.07	0.11	0.16
30	---	---	0.14	0.13	---	0.05	0.06	0.14	0.09	0.07	0.12	0.15
31	0.07	---	0.12	0.13	---	0.04	---	0.14	---	0.08	0.11	---
MEAN	---	---	0.13	0.11	0.14	0.08	0.04	---	0.10	0.09	0.09	0.14
MAX	---	---	0.14	0.13	0.14	0.14	0.06	---	0.14	0.90	0.12	0.29
MIN	---	---	0.11	0.09	0.13	0.04	0.03	---	0.05	0.04	0.06	0.11

02324000 STEINHATCHEE RIVER NEAR CROSS CITY, FL

LOCATION.--Lat 29° 47'11", long 83° 19'18", in NE1/4 sec. 16, T. 8 S., R. 10 E., Taylor County, Hydrologic Unit 03110102, on right bank 0.7 mi downstream from Atlantic Coast Line Railroad bridge, 0.7 mi south of Clara, 13 mi upstream from mouth, and 16 mi northwest of Cross City.

DRAINAGE AREA.--350 mi^2, approximately. See REMARKS.

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

REVISED RECORDS.--WSP 1234: 1950. WSP 1724: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7.84 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Below about 500 ft^3/s, all flow enters sinkhole 0.5 mi downstream from gage. Above about 4,000 ft^3/s, discharge measurements are made along U.S. Highways 19, 98, and Alternate 27. Measurements include all flow from about 3 mi northwest to 5 mi southwest of main channel, drainage area is increased by about 30 mi^2. Maximum discharge, 3,410 ft^3/s, stage falling, peak occurred Sept. 30, 2004, discharge, 3,500 ft^3/s, gage height, 15.19 ft; maximum independent peak discharge, 3,120 ft^3/s, July 13, gage height, 14.90 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,250	401	214	342	176	425	794	e421	218	388	429	101
2	2,830	372	200	321	175	423	1,350	e479	214	497	e562	97
3	2,470	342	192	301	182	411	1,560	538	210	604	e655	88
4	2,180	325	186	281	182	416	1,630	511	202	601	e734	79
5	1,920	309	180	264	176	391	1,600	808	237	574	e785	74
6	1,680	281	174	249	168	359	1,480	1,050	249	515	e764	65
7	1,500	266	167	234	161	327	1,450	1,070	259	453	e713	60
8	1,340	252	156	225	155	353	1,750	1,040	288	399	e655	56
9	1,210	236	146	216	149	328	1,850	939	316	424	e596	52
10	1,120	218	149	209	148	300	1,830	829	319	1,020	550	48
11	1,080	207	153	202	140	278	1,700	727	346	2,240	510	44
12	1,010	206	146	197	132	258	1,540	726	499	2,690	466	40
13	927	217	144	189	127	241	1,510	730	730	3,060	459	37
14	843	202	139	214	129	229	1,450	657	834	3,060	387	33
15	879	188	134	221	143	218	1,350	559	954	2,860	315	30
16	884	180	133	212	142	294	1,220	476	847	2,580	264	27
17	821	171	132	203	139	500	1,100	411	755	2,170	229	25
18	768	162	131	194	131	545	980	359	640	1,770	201	23
19	716	155	129	184	123	535	871	323	571	e1,380	177	22
20	813	147	122	178	117	512	783	296	515	e1,020	167	20
21	869	145	117	173	113	485	699	296	492	e852	157	18
22	804	137	114	170	113	483	615	308	461	e726	142	19
23	750	131	154	167	111	563	577	273	411	e642	129	22
24	701	128	185	155	120	577	545	245	352	e571	124	21
25	658	177	214	151	126	689	493	215	302	e508	120	19
26	613	173	378	147	127	880	462	187	273	e449	113	18
27	564	178	413	145	195	1,020	468	164	254	e398	111	19
28	523	231	413	138	393	1,040	425	148	262	e352	107	21
29	490	230	402	135	---	985	384	129	286	e319	102	19
30	459	e240	386	176	---	903	357	116	336	295	100	18
31	427	---	364	177	---	820	---	139	---	332	101	---
MEAN	1,132	220	202	205	153	509	1,094	489	421	1,089	352	40.5
MAX	3,250	401	413	342	393	1,040	1,850	1,070	954	3,060	785	101
MIN	427	128	114	135	111	218	357	116	202	295	100	18
IN.	3.73	0.70	0.67	0.68	0.46	1.68	3.49	1.61	1.34	3.59	1.16	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2005, BY WATER YEAR (WY)

MEAN	294	126	184	315	456	498	337	123	122	317	497	490
MAX	1,436	1,291	998	1,186	2,266	2,022	1,443	972	925	1,305	2,496	3,820
(WY)	(1958)	(1952)	(1954)	(1998)	(1998)	(1991)	(1982)	(1978)	(1957)	(1964)	(1970)	(1964)
MIN	16.0	6.34	6.15	12.4	13.0	15.1	8.21	4.45	2.37	2.99	4.75	29.5
(WY)	(1956)	(2000)	(2002)	(2000)	(1957)	(2000)	(2000)	(2001)	(2000)	(2000)	(1998)	(1956)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1950 - 2005	
ANNUAL MEAN	345		496		314	
HIGHEST ANNUAL MEAN					901	1964
LOWEST ANNUAL MEAN					35.4	1956
HIGHEST DAILY MEAN	3,420	Sep 30	3,250	Oct 1	16,400	Sep 14, 1964
LOWEST DAILY MEAN	4.2	Jun 13	18	Sep 21	1.5	Jun 13, 2000
ANNUAL SEVEN-DAY MINIMUM	4.3	Jun 13	19	Sep 24	1.6	Jun 8, 2000
MAXIMUM PEAK FLOW			3,410	Oct 1	17,600	Sep 13, 1964
MAXIMUM PEAK STAGE			15.12	Oct 1	18.90	Sep 13, 1964
INSTANTANEOUS LOW FLOW			18	Sep 21	1.4	Jun 11, 2000
ANNUAL RUNOFF (INCHES)	13.41		19.23		12.19	
10 PERCENT EXCEEDS	964		1,070		857	
50 PERCENT EXCEEDS	140		301		115	
90 PERCENT EXCEEDS	5.8		112		13	

e Estimated

02324400 FENHOLLOWAY RIVER NEAR FOLEY, FL

LOCATION.--Lat 30°05'53", long 83°28'19", in NE1/4 sec. 36, T. 4 S., R. 8 E., Taylor County, Hydrologic Unit 03110102, near left bank at downstream side of bridge on U.S. Highway 27, 1.8 mi upstream from small tributary, 4 mi northeast of Foley, and 32 mi upstream from mouth.

DRAINAGE AREA.--60 mi^2, approximately.

PERIOD OF RECORD.--February to August 1955 (discharge measurements only); September 1955 to current year.

REVISED RECORDS.--WSP 1905: Drainage area: WDR FL-92-4: 1991.

GAGE.--Water-stage recorder. Datum of gage is 53.59 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--No estimated daily discharges. Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	458	70	38	75	20	65	246	144	18	108	82	33
2	409	66	35	71	19	66	511	162	18	109	106	29
3	369	62	33	65	20	66	502	165	33	107	105	25
4	337	59	30	61	22	65	448	157	75	106	111	21
5	308	64	29	56	21	61	388	167	168	96	129	18
6	281	61	27	53	19	56	334	190	250	87	146	15
7	255	57	26	50	18	52	355	184	246	78	148	13
8	232	54	25	47	17	57	486	169	208	70	143	12
9	213	50	24	44	16	56	460	152	206	74	134	11
10	199	47	23	42	15	52	413	137	183	234	126	9.3
11	188	44	22	40	13	49	362	124	166	637	119	8.1
12	177	42	21	38	12	45	330	117	248	584	115	7.3
13	166	43	20	35	11	41	332	107	429	519	109	6.5
14	155	41	19	37	11	39	319	95	437	450	96	5.9
15	155	39	17	37	12	36	292	85	376	389	86	5.4
16	152	36	16	35	12	84	262	75	368	359	78	4.9
17	142	33	16	32	11	144	231	66	321	328	74	4.5
18	133	31	15	30	10	145	207	60	258	295	68	4.2
19	125	29	15	28	9.4	154	191	89	225	263	61	3.9
20	161	27	14	26	8.7	145	175	75	196	234	57	3.6
21	176	26	13	24	8.1	132	161	66	171	210	54	3.3
22	159	25	13	23	7.8	122	149	58	151	190	50	3.2
23	144	24	14	22	7.6	131	146	51	133	171	45	3.3
24	130	23	19	20	8.8	121	140	46	117	157	41	3.8
25	120	31	24	18	11	191	129	40	105	143	37	3.5
26	111	30	63	17	12	267	119	33	95	128	34	3.1
27	101	29	75	16	25	372	113	29	87	112	34	3.0
28	93	40	78	15	69	368	104	25	85	99	33	2.8
29	87	41	84	14	---	317	96	22	80	87	33	2.7
30	81	39	84	19	---	267	93	19	92	81	34	2.5
31	75	---	80	20	---	229	---	17	---	81	34	---
MEAN	190	42.1	32.6	35.8	15.9	129	270	94.4	185	212	81.4	9.06
MAX	458	70	84	75	69	372	511	190	437	637	148	33
MIN	75	23	13	14	7.6	36	93	17	18	70	33	2.5
IN.	3.65	0.78	0.63	0.69	0.28	2.48	5.02	1.81	3.44	4.08	1.56	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2005, BY WATER YEAR (WY)

MEAN	39.4	14.1	24.8	43.6	68.7	91.4	71.0	25.2	32.6	50.4	78.0	60.7
MAX	389	81.5	185	179	259	411	413	147	478	212	580	560
(WY)	(1958)	(1977)	(1977)	(1987)	(1998)	(2003)	(1973)	(1964)	(1957)	(2005)	(1970)	(1964)
MIN	0.53	0.70	0.58	0.52	0.47	1.17	0.50	0.31	0.32	0.36	0.50	0.64
(WY)	(1994)	(1969)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(1993)	(1993)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1956 - 2005	
ANNUAL MEAN	55.1		109		49.9	
HIGHEST ANNUAL MEAN					154	1964
LOWEST ANNUAL MEAN					3.90	2002
HIGHEST DAILY MEAN	594	Sep 28	637	Jul 11	2,710	Sep 12, 1964
LOWEST DAILY MEAN	1.4	Jul 12	2.5	Sep 30	0.20	Jun 16, 2000
ANNUAL SEVEN-DAY MINIMUM	1.8	Jul 7	3.1	Sep 24	0.21	Jun 10, 2000
MAXIMUM PEAK FLOW			652	Jul 11	3,210	Sep 12, 1964
MAXIMUM PEAK STAGE			11.94	Jul 11	15.21	Sep 12, 1964
INSTANTANEOUS LOW FLOW			2.4	Sep 30	0.20	Jun 11, 2000
ANNUAL RUNOFF (INCHES)	12.50		24.59		11.30	
10 PERCENT EXCEEDS	162		273		139	
50 PERCENT EXCEEDS	17		66		15	
90 PERCENT EXCEEDS	2.3		12		1.2	

02325000 FENHOLLOWAY RIVER NEAR PERRY, FL

LOCATION.--Lat 30°04'16", long 83°39'45", in SE¼ sec. 6, T. 5 S., R. 7 E., Taylor County, Hydrologic Unit 03110102, near right bank on downstream side of old bridge at State Highway 356, 1.0 mi southwest of the community of Hampton Springs, 5.5 mi southwest of Perry and, 14 mi upstream from mouth.

DRAINAGE AREA.--160 mi^2, approximately.

PERIOD OF RECORD.--August 1946 to June 1952 (discharge measurements only); August 1952 to October 1954 (gage heights and discharge measurements only); November 1964 to July 1977 (crest-stage and periodic discharge measurements only); August 1977 to September 1984. May 1986 to current year.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. August 13, 1946 to October 1954, nonrecording gage at same site at datum 5.00 ft higher. November 1964 to July 1977, nonrecording gage at same site and datum.

REMARKS.--Records fair. Natural flow of stream affected by large ground-water withdrawals by cellulose plant about 10 mi upstream. Flow affected by backwater from Spring Creek at times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	658	238	149	239	123	205	586	429	151	248	271	192
2	602	229	147	232	123	218	640	452	144	251	265	185
3	562	220	141	223	125	224	745	452	191	277	264	177
4	532	213	138	215	125	226	759	442	225	267	292	171
5	509	216	136	208	123	222	720	454	305	251	356	165
6	483	204	133	199	121	215	698	464	314	231	378	159
7	459	198	133	191	119	207	692	466	365	215	384	156
8	435	194	134	186	117	220	674	448	397	201	378	152
9	415	188	132	182	115	218	725	424	422	219	381	148
10	400	180	133	174	114	210	717	396	397	352	358	144
11	387	175	133	168	110	204	702	370	378	543	350	142
12	381	173	129	163	107	195	693	357	367	677	347	139
13	370	171	128	154	107	187	687	336	377	749	326	138
14	348	165	124	159	108	181	689	309	431	718	310	135
15	349	159	118	161	110	176	677	288	465	678	320	133
16	350	156	117	156	109	230	654	270	485	645	292	131
17	332	151	115	151	109	311	625	252	495	620	271	128
18	321	148	116	145	105	333	595	245	481	594	254	131
19	309	145	115	142	100	352	570	249	453	568	240	127
20	354	144	113	140	99	365	542	236	409	540	233	125
21	371	142	110	136	99	365	517	229	362	513	228	125
22	370	139	109	136	97	354	495	215	325	483	225	126
23	369	136	121	136	96	369	489	201	296	444	219	127
24	358	136	124	132	104	363	480	191	272	413	211	126
25	337	145	127	128	102	395	450	180	250	387	203	123
26	318	140	194	128	99	484	426	171	234	358	200	121
27	300	140	210	125	132	574	410	160	218	336	205	124
28	283	154	225	122	197	638	385	151	214	313	197	122
29	270	152	238	120	---	646	365	143	219	294	193	122
30	262	e151	243	124	---	624	363	137	239	279	195	121
31	249	---	243	124	---	586	---	141	---	275	194	---
MEAN	388	170	146	161	114	326	592	299	329	417	275	140
MAX	658	238	243	239	197	646	759	466	495	749	384	192
MIN	249	136	109	120	96	176	363	137	144	201	193	121
IN.	2.80	1.19	1.05	1.16	0.74	2.35	4.13	2.15	2.30	3.01	1.99	0.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2005, BY WATER YEAR (WY)

MEAN	174	141	143	174	219	277	253	155	145	193	227	186
MAX	451	283	369	476	495	699	652	316	329	475	492	409
(WY)	(1995)	(2004)	(1987)	(1987)	(1987)	(1991)	(1983)	(1983)	(2005)	(1984)	(1991)	(2004)
MIN	75.3	65.0	66.0	72.6	71.7	80.0	81.8	77.1	76.1	75.9	82.8	94.2
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2000)	(2000)	(2001)	(2001)	(2004)	(1993)	(1993)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1977 - 2005	
ANNUAL MEAN	175		281		191	
HIGHEST ANNUAL MEAN					317	1983
LOWEST ANNUAL MEAN					91.9	2000
HIGHEST DAILY MEAN	720	Sep 30	759	Apr 4	1,130	Jul 31, 1982
LOWEST DAILY MEAN	66	May 27	96	Feb 23	35	Oct 8, 1990
ANNUAL SEVEN-DAY MINIMUM	67	May 27	99	Feb 20	48	Oct 4, 1990
MAXIMUM PEAK FLOW			770	Apr 3	1,360	Sep 18, 1964
MAXIMUM PEAK STAGE			20.67	Apr 8	24.39	Sep 13, 1964
INSTANTANEOUS LOW FLOW			95	Feb 22	35	Oct 8, 1990
ANNUAL RUNOFF (INCHES)	14.90		23.85		16.22	
10 PERCENT EXCEEDS	370		542		361	
50 PERCENT EXCEEDS	126		223		144	
90 PERCENT EXCEEDS	75		123		90	

e Estimated

02326000 ECONFINA RIVER NEAR PERRY, FL

LOCATION.--Lat 30° 10'14", long 83° 49'26", in NE$^{1}/_{4}$ sec. 4, T. 4 S., R. 5 E., Taylor County, Hydrologic Unit 03110102, on downstream side of concrete bridge, 3.0 mi downstream from Natural Well Branch, 14 mi upstream from mouth, and 14.7 mi northwest of Perry.

DRAINAGE AREA.--198 mi^2.

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

REVISED RECORDS.--WSP 1905: Drainage area. WRD FL-02-4:2001.

GAGE.--Water-stage recorder. Datum of gage is 14.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	613	188	120	237	109	220	501	345	63	93	162	102
2	612	176	119	232	109	244	747	367	64	101	167	97
3	606	165	117	225	113	282	921	358	64	113	171	88
4	598	159	114	217	117	302	955	349	63	134	160	77
5	583	162	111	208	116	305	949	379	64	160	151	68
6	564	153	107	199	114	300	919	427	62	179	151	61
7	541	143	104	190	111	291	929	428	60	200	183	55
8	512	135	100	183	109	296	994	410	68	196	230	51
9	486	128	96	175	105	297	1,010	385	77	186	262	48
10	463	121	97	169	102	290	999	358	85	228	245	45
11	446	115	99	162	98	285	963	332	97	410	227	42
12	425	112	97	155	94	283	919	307	117	525	233	40
13	404	114	96	149	91	e275	882	282	129	623	205	38
14	381	112	94	162	89	e265	835	259	139	677	179	36
15	376	110	91	173	93	e260	790	238	147	676	166	35
16	364	108	90	172	93	e280	745	217	155	658	150	34
17	343	105	88	170	92	338	703	199	166	641	133	33
18	321	102	86	166	90	359	658	181	174	623	120	32
19	302	100	83	159	87	369	614	165	176	593	110	31
20	324	98	81	152	84	373	577	151	173	556	100	30
21	348	96	78	145	81	370	532	138	164	515	91	29
22	333	93	76	139	79	362	484	127	152	477	83	29
23	312	91	78	133	78	355	460	117	139	434	77	30
24	295	90	83	126	81	342	444	108	127	380	72	30
25	279	94	87	120	85	342	409	99	115	333	70	32
26	266	94	139	115	87	382	369	90	104	297	68	31
27	253	95	175	110	107	433	345	82	95	271	73	30
28	239	113	183	106	201	456	318	76	90	245	75	30
29	226	117	206	103	---	459	291	70	88	218	78	30
30	215	118	231	107	---	454	278	65	90	194	88	29
31	201	---	239	109	---	447	---	63	---	174	96	---
MEAN	395	120	115	160	101	333	685	231	110	358	141	44.8
MAX	613	188	239	237	201	459	1,010	428	176	677	262	102
MIN	201	90	76	103	78	220	278	63	60	93	68	29
IN.	2.30	0.68	0.67	0.93	0.53	1.94	3.86	1.35	0.62	2.09	0.82	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	117	68.9	97.0	137	212	256	220	86.4	87.4	114	169	142
MAX	816	316	771	624	813	880	1,176	379	432	381	756	1,266
(WY)	(1995)	(2004)	(1977)	(1987)	(1986)	(2003)	(1973)	(1964)	(1957)	(1958)	(1991)	(1957)
MIN	6.26	8.18	6.22	9.47	7.50	9.97	13.2	7.73	4.80	4.49	8.31	9.12
(WY)	(1994)	(1969)	(1991)	(1957)	(1957)	(1957)	(1955)	(1955)	(1955)	(1955)	(1993)	(1993)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL MEAN	156		234		142	
HIGHEST ANNUAL MEAN					317	1991
LOWEST ANNUAL MEAN					18.1	1955
HIGHEST DAILY MEAN	613	Oct 1	1,010	Apr 9	2,480	Sep 18, 1957
LOWEST DAILY MEAN	26	Jun 1	29	Sep 21	2.4	Jul 8, 1955
ANNUAL SEVEN-DAY MINIMUM	27	May 28	30	Sep 18	2.6	Jul 3, 1955
MAXIMUM PEAK FLOW			1,010	Apr 8	2,540	Sep 17, 1957
MAXIMUM PEAK STAGE			11.19	Apr 9	12.78	Sep 17, 1957
INSTANTANEOUS LOW FLOW			29	Sep 21	2.3	Jul 8, 1955
ANNUAL RUNOFF (INCHES)	10.72		16.04		9.72	
10 PERCENT EXCEEDS	425		519		369	
50 PERCENT EXCEEDS	96		159		62	
90 PERCENT EXCEEDS	35		68		18	

e Estimated

02326372 PALMER MILL BRANCH AT MONTICELLO, FL

LOCATION.--Lat 30° 23'37", long 83° 50'42", in SE1/4 sec. 29, T.2N., R.5E., Jefferson County, Hydrologic Unit 03110103, on right bank 10 ft upstream from culvert on U.S. Highway 90, 1.5 mi above mouth, and 1.5 mi east of Jefferson County Court house in Monticello.

DRAINAGE AREA.--0.48 mi^2.

PERIOD OF RECORD.--February 1983 to September 1984 (fragmentary), October 1985 to June 1987, prior to June 1987, maximum peak stage and discharge published only, May 1995 to September 1997 (fragmentary), October 1997 to September 2001, October 2002 to September 2003 (fragmentary), October 2003 to September 2004, October 2004 to September 2005 (fragmentary).

GAGE.--Water-stage recorder, crest-stage gage. Elevation of gage 110 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.68	0.89	0.78	0.78	1.2	---	2.0	---	1.0	1.1	1.0	0.86
2	0.68	0.95	0.78	0.78	1.4	---	---	---	0.98	1.1	0.87	0.76
3	0.72	0.88	0.78	0.85	1.3	---	---	---	4.0	1.7	0.84	0.75
4	0.75	1.5	0.78	0.88	---	---	---	---	0.93	0.91	0.79	0.74
5	0.76	0.65	0.78	0.98	---	---	---	---	0.96	0.84	0.97	0.71
6	0.78	0.59	0.78	0.99	---	---	---	---	0.94	0.80	0.97	0.65
7	0.78	0.67	0.78	0.99	---	---	---	---	0.86	1.5	1.1	0.66
8	0.78	0.77	0.79	0.99	---	---	---	---	0.85	0.80	0.89	0.66
9	0.84	0.78	0.78	1.0	---	---	---	---	1.0	0.95	0.88	0.65
10	1.4	0.87	0.84	1.0	---	---	---	---	0.92	14	0.87	0.65
11	0.95	0.88	0.87	1.1	---	---	---	---	1.7	4.0	1.9	0.64
12	0.78	14	0.90	1.1	---	---	---	---	1.0	1.1	0.95	0.65
13	0.90	1.1	0.97	1.5	---	---	---	---	0.88	1.3	0.84	0.66
14	0.93	0.77	0.99	2.3	---	---	---	---	0.88	1.1	0.83	0.66
15	3.0	0.68	0.99	0.83	---	---	---	---	0.87	0.98	0.78	0.66
16	0.68	0.68	1.0	0.80	---	---	---	---	0.88	0.98	0.81	0.67
17	0.65	0.65	1.0	0.78	---	---	---	---	0.88	0.93	0.72	0.67
18	0.62	0.59	1.0	0.78	---	---	---	---	0.93	0.84	0.66	0.67
19	0.60	0.59	1.1	0.78	---	---	---	0.88	1.0	0.83	0.59	0.66
20	1.3	0.67	1.1	0.78	---	---	---	0.90	0.99	1.2	0.59	0.65
21	0.68	0.60	1.0	0.78	---	---	---	0.94	0.99	0.94	0.70	3.2
22	0.68	0.59	0.99	0.78	---	---	---	0.92	1.0	0.89	0.59	0.79
23	0.75	0.66	1.2	0.78	---	---	---	0.88	1.0	0.88	0.60	0.64
24	0.78	2.0	1.1	0.81	---	---	---	0.85	1.0	0.88	0.62	0.60
25	0.78	0.77	2.1	0.88	---	---	---	0.83	1.1	0.88	0.63	0.59
26	0.83	0.68	4.9	0.89	---	---	---	0.83	1.1	0.91	1.1	2.7
27	0.84	1.9	0.93	0.88	---	---	---	0.83	1.1	0.93	0.68	1.7
28	0.82	0.86	0.81	0.92	---	---	---	0.82	1.1	0.88	2.0	0.75
29	0.86	0.78	0.78	1.3	---	1.8	---	0.78	1.1	0.85	0.99	0.68
30	0.88	0.78	0.78	1.1	---	1.6	---	0.73	1.1	4.3	1.4	0.68
31	0.88	---	0.78	1.1	---	1.7	---	0.81	---	0.88	1.5	---
TOTAL	27.36	38.78	33.16	30.21	---	---	---	---	33.04	50.18	28.66	26.01
MEAN	0.88	1.29	1.07	0.97	---	---	---	---	1.10	1.62	0.92	0.87
MAX	3.0	14	4.9	2.3	---	---	---	---	4.0	14	2.0	3.2
MIN	0.60	0.59	0.78	0.78	---	---	---	---	0.85	0.80	0.59	0.59
MED	0.78	0.77	0.90	0.88	---	---	---	---	1.0	0.93	0.84	0.67
AC-FT	54	77	66	60	---	---	---	---	66	100	57	52
CFSM	1.84	2.69	2.23	2.03	---	---	---	---	2.29	3.37	1.93	1.81
IN.	2.12	3.01	2.57	2.34	---	---	---	---	2.56	3.89	2.22	2.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005, BY WATER YEAR (WY)

MEAN	0.95	0.99	1.01	0.98	1.18	1.30	1.07	0.89	1.05	1.47	1.61	1.16
MAX	1.80	1.41	1.34	1.74	1.79	2.16	2.04	1.22	1.93	6.48	7.97	2.61
(WY)	(1998)	(1998)	(1987)	(1987)	(1998)	(1984)	(1984)	(1985)	(2001)	(1997)	(1997)	(1998)
MIN	0.63	0.50	0.58	0.64	0.70	0.89	0.60	0.53	0.56	0.65	0.77	0.68
(WY)	(2000)	(1985)	(1985)	(2003)	(2001)	(2000)	(2001)	(2000)	(2000)	(2001)	(1999)	(1985)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		WATER YEARS 1983 - 2005	
ANNUAL TOTAL	418.12			
ANNUAL MEAN	1.14		0.99	
HIGHEST ANNUAL MEAN			1.47	1998
LOWEST ANNUAL MEAN			0.76	2000
HIGHEST DAILY MEAN	25	Sep 6	27	Jun 12, 2001
LOWEST DAILY MEAN	0.50	Jan 29	0.00	Feb 25, 1983
ANNUAL SEVEN-DAY MINIMUM	0.57	Jan 29	0.00	May 26, 1983
MAXIMUM PEAK FLOW			241	Aug 21, 1997
MAXIMUM PEAK STAGE			7.82	Aug 21, 1997
INSTANTANEOUS LOW FLOW			0.00	Feb 25, 1983
ANNUAL RUNOFF (AC-FT)	829		719	
ANNUAL RUNOFF (CFSM)	2.38		2.07	
ANNUAL RUNOFF (INCHES)	32.40		28.10	
10 PERCENT EXCEEDS	1.4		1.4	
50 PERCENT EXCEEDS	0.79		0.77	
90 PERCENT EXCEEDS	0.65		0.50	

02326550 AUCILLA RIVER NEAR MOUTH NEAR NUTALL RISE, FL

LOCATION.--Lat 30°06'54", long 83°58'47" in SW 1/4 sec. 24, T. 4 S., R.4 E., Taylor County, Hydrologic Unit 03110103, on left bank approximately 400 ft below county boat ramp, and 2.6 mi upstream from mouth.

DRAINAGE AREA.-- 938.6 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 2001 to September 2002 (fragmentary). October 2002 to current year.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is not determined. May 4, 2001 to February 18, 2003, at site 600 ft downstream, at same datum.

REMARKS.--Records poor. Flow affected by tide. Discharge computed from continuous velocity record obtained from water-current meter. Flow from July 11 to Sept. 30, 2005 will be published in the 2006 Water Resources Data Report due to channel changes created by the storm surge from Hurricane Dennis on July 10. Additional measurements need to be made to verify the new rating.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,980	1,120	1,160	970	1,770	1,050	2,480	1,740	720	1,110	---	---
2	1,910	1,180	903	1,190	1,730	1,010	2,900	1,720	668	777	---	---
3	1,930	1,240	820	1,160	2,070	1,080	3,000	1,640	744	736	---	---
4	1,890	1,190	944	1,180	823	1,050	3,480	1,670	861	807	---	---
5	1,780	958	1,810	1,260	736	957	3,830	1,800	804	832	---	---
6	1,740	901	2,190	1,090	1,010	930	4,010	1,840	878	955	---	---
7	1,760	1,590	1,620	1,020	877	674	4,260	1,920	949	734	---	---
8	1,710	1,860	1,000	814	864	1,570	4,550	1,930	1,010	845	---	---
9	1,660	1,280	631	806	980	1,140	4,150	1,890	1,030	757	---	---
10	1,850	645	1,020	863	954	1,160	4,230	1,870	975	---	---	---
11	1,800	1,090	881	855	714	1,160	4,200	1,750	1,070	---	---	---
12	1,630	1,120	710	930	961	1,180	4,120	1,680	1,310	---	---	---
13	1,590	937	774	1,100	1,200	1,150	4,000	1,610	1,170	---	---	---
14	1,470	754	727	974	1,330	1,210	3,630	1,560	1,160	---	---	---
15	1,450	754	622	821	1,550	1,120	3,360	1,460	1,070	---	---	---
16	1,440	1,070	665	820	1,630	1,430	3,100	1,390	1,090	---	---	---
17	1,350	1,120	647	755	1,850	1,510	2,930	1,300	1,100	---	---	---
18	1,320	1,780	1,690	731	1,310	1,610	2,890	1,190	1,140	---	---	---
19	1,300	1,780	1,530	848	1,310	1,720	2,690	1,230	1,100	---	---	---
20	1,360	1,990	550	849	1,590	1,770	2,580	1,110	1,030	---	---	---
21	1,400	1,520	1,150	1,100	1,270	1,860	2,420	1,040	1,080	---	---	---
22	1,390	1,250	1,270	1,140	787	1,960	2,160	993	1,030	---	---	---
23	1,390	992	1,340	1,070	734	1,890	1,950	938	1,010	---	---	---
24	1,380	929	833	670	705	1,760	1,700	e911	894	---	---	---
25	1,340	1,420	609	739	555	1,720	1,670	905	786	---	---	---
26	1,270	833	781	886	551	1,900	1,510	924	760	---	---	---
27	1,200	941	825	685	827	2,000	1,550	869	832	---	---	---
28	1,150	936	925	606	1,180	2,100	1,450	722	726	---	---	---
29	1,010	856	988	989	---	1,910	1,430	728	1,010	---	---	---
30	1,010	949	1,020	1,320	---	2,050	1,490	606	1,020	---	---	---
31	978	---	1,050	1,480	---	2,090	---	635	---	---	---	---
MEAN	1,498	1,166	1,022	959	1,138	1,475	2,924	1,341	968	---	---	---
MAX	1,980	1,990	2,190	1,480	2,070	2,100	4,550	1,930	1,310	---	---	---
MIN	978	645	550	606	551	674	1,430	606	668	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	1,107	1,113	1,299	1,345	1,287	1,740	1,681	966	1,089	936	1,063	1,113
MAX	1,498	1,334	1,931	2,327	1,603	3,091	2,924	1,341	1,506	1,040	1,479	1,446
(WY)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)	(2005)	(2005)	(2003)	(2001)	(2003)	(2004)
MIN	910	925	927	950	994	1,087	808	728	685	819	832	893
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2004)	(2004)	(2004)	(2004)	(2004)	(2001)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		WATER YEARS 2001 - 2005	
ANNUAL MEAN	1,070		1,283	
HIGHEST ANNUAL MEAN			1,526	2003
LOWEST ANNUAL MEAN			1,041	2004
HIGHEST DAILY MEAN	2,420	Sep 17	4,660	Mar 11, 2003
LOWEST DAILY MEAN	362	Jul 6	38	Dec 19, 2002
ANNUAL SEVEN-DAY MINIMUM	505	Jul 1	505	Jul 1, 2004
MAXIMUM PEAK FLOW			9,600	Jan 1, 2003
MAXIMUM PEAK STAGE			14.41	Oct 14, 2001
10 PERCENT EXCEEDS	1,700		2,050	
50 PERCENT EXCEEDS	978		1,090	
90 PERCENT EXCEEDS	580		623	

e Estimated

02326550 AUCILLA RIVER NEAR MOUTH NEAR NUTALL RISE, FL—Continued

WATER-QUALITY RECORDS

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

REMARKS.--Temperature and salinity records poor.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.9	22.0	17.2	13.4	13.7	16.1	19.5	19.3	23.5	25.3	26.0	26.3
2	24.2	23.2	16.6	14.3	13.5	14.9	18.9	19.1	23.8	25.6	25.5	26.2
3	24.3	23.3	16.2	15.2	13.5	14.0	17.9	19.1	24.2	25.9	25.4	26.1
4	24.4	23.2	16.1	15.9	13.7	13.6	17.8	19.0	24.0	26.0	25.0	25.9
5	24.3	22.5	15.8	16.5	13.6	13.7	18.3	18.9	24.1	26.2	25.0	25.6
6	24.0	21.5	16.0	17.3	13.7	14.1	19.0	18.9	24.6	26.5	24.9	25.2
7	23.6	20.6	16.5	18.0	14.5	15.0	19.4	19.0	24.9	26.8	24.8	25.1
8	23.1	20.1	17.5	18.4	15.3	16.4	19.3	19.3	25.3	26.9	25.0	25.1
9	22.9	19.4	18.5	19.1	15.8	15.6	19.3	19.7	25.1	26.4	25.2	25.1
10	22.7	18.8	19.5	19.6	16.4	15.4	20.0	20.3	25.0	26.6	25.6	25.3
11	22.6	19.0	18.7	19.5	15.7	15.3	20.1	21.0	25.7	26.2	26.1	25.6
12	22.8	19.6	17.9	19.5	15.3	14.9	19.9	21.6	25.2	26.1	26.3	26.3
13	22.8	19.9	17.5	19.8	15.4	15.5	19.9	22.1	25.5	26.4	26.4	26.4
14	22.3	19.2	16.7	19.4	15.6	16.7	19.6	22.4	25.8	26.8	26.4	26.1
15	21.7	18.9	14.8	18.2	15.6	17.4	18.7	22.5	26.1	26.8	26.4	25.6
16	20.7	18.7	13.7	17.3	16.0	17.6	18.1	22.6	26.4	26.8	26.6	25.4
17	20.5	18.6	13.7	16.0	16.6	17.3	17.6	22.6	26.5	26.7	26.3	25.7
18	20.1	18.4	13.9	14.4	16.2	15.7	17.4	22.6	26.3	26.7	27.0	26.2
19	20.4	18.4	13.5	13.3	15.5	14.7	17.5	22.7	26.0	27.1	27.0	26.7
20	21.2	18.6	12.8	13.2	15.7	14.7	18.1	23.0	25.7	27.5	27.2	26.1
21	21.7	19.0	12.2	13.2	16.3	15.7	18.7	23.2	25.4	27.6	27.4	26.3
22	21.9	19.2	12.3	13.8	17.2	16.9	19.3	23.2	25.5	27.8	27.3	27.0
23	21.6	19.9	14.2	13.7	17.7	18.4	19.8	23.6	25.5	27.9	27.2	26.6
24	21.3	20.8	13.8	12.8	18.1	19.0	19.2	24.0	25.4	27.9	26.6	26.3
25	21.2	20.5	12.4	12.8	17.8	19.6	18.5	23.7	25.2	27.8	26.6	27.1
26	21.1	18.9	11.1	13.5	17.2	20.1	18.0	23.3	25.4	27.8	26.4	27.3
27	21.0	17.9	11.3	14.2	16.5	20.2	18.2	23.5	25.3	27.7	26.7	26.2
28	21.3	17.8	10.8	14.0	16.6	20.1	18.4	23.6	25.0	27.7	28.0	27.0
29	21.5	17.0	10.9	13.3	---	19.8	19.0	23.7	24.9	27.7	27.7	26.1
30	21.7	16.9	11.5	13.6	---	19.5	19.4	23.5	25.1	27.2	27.0	25.6
31	21.8	---	12.2	13.9	---	19.5	---	23.4	---	26.6	26.7	---
MEAN	22.2	19.7	14.7	15.7	15.7	16.7	18.8	21.8	25.2	26.9	26.3	26.1
MAX	24.4	23.3	19.5	19.8	18.1	20.2	20.1	24.0	26.5	27.9	28.0	27.3
MIN	20.1	16.9	10.8	12.8	13.5	13.6	17.4	18.9	23.5	25.3	24.8	25.1

02326550 AUCILLA RIVER NEAR MOUTH NEAR NUTALL RISE, FL—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.06	0.31	0.14	0.10	1.9	0.12	0.05	0.08	0.63	0.18	0.10	0.17
2	0.06	1.5	0.12	0.11	2.6	0.12	0.05	0.08	0.13	0.11	0.10	0.15
3	0.06	0.11	0.13	0.11	1.9	0.11	0.05	0.08	0.13	0.11	0.10	0.14
4	0.06	0.11	0.12	0.12	0.18	0.10	0.05	0.08	0.17	0.10	0.11	0.15
5	0.06	0.13	0.36	0.24	0.84	0.10	0.05	0.08	0.13	0.10	0.11	0.14
6	0.06	0.13	1.3	0.12	1.8	0.10	0.05	0.07	0.13	0.66	0.11	0.15
7	0.06	0.16	1.0	0.12	1.3	0.14	0.04	0.07	0.12	0.10	0.12	0.16
8	0.06	0.23	0.39	0.12	2.4	3.2	0.04	0.07	0.10	0.10	0.12	0.16
9	0.06	0.16	0.13	0.12	2.3	0.12	0.04	0.07	0.09	0.10	0.11	0.53
10	0.06	0.18	0.21	0.12	2.4	0.11	0.04	0.06	0.09	13.3	0.10	2.7
11	0.07	0.89	0.14	0.12	0.17	0.10	0.04	0.07	6.5	6.2	0.09	5.1
12	0.07	2.5	0.14	0.22	0.17	0.09	0.04	0.07	0.11	0.42	0.09	9.5
13	0.07	0.94	0.14	1.7	1.6	0.08	0.04	0.07	0.10	0.13	0.09	9.5
14	0.08	0.15	0.14	0.12	1.5	0.08	0.04	0.07	0.10	0.10	0.09	7.5
15	0.69	0.15	0.15	0.15	1.0	0.08	0.04	0.07	0.10	0.09	0.09	5.8
16	0.08	0.15	0.15	0.14	3.8	0.09	0.04	0.08	0.09	0.09	0.09	3.9
17	0.08	1.7	0.14	0.14	1.4	0.08	0.04	0.08	0.09	0.07	0.10	2.4
18	0.08	2.7	0.23	0.13	0.27	0.07	0.04	0.09	0.09	0.07	0.10	2.5
19	0.08	5.1	0.18	0.12	0.42	0.06	0.05	0.09	0.09	0.07	0.14	1.9
20	0.08	2.5	0.16	0.12	1.4	0.06	0.05	0.10	0.09	0.07	0.46	0.24
21	0.08	1.4	2.2	1.0	1.9	0.06	0.05	0.10	0.12	0.07	0.29	2.2
22	0.08	1.2	4.4	0.66	1.6	0.06	0.06	0.11	0.09	0.07	0.12	8.4
23	0.08	0.80	2.0	0.17	0.19	0.06	0.06	0.11	0.10	0.07	0.12	4.4
24	0.09	2.6	0.18	0.14	0.41	0.06	0.07	0.11	0.09	0.07	0.13	4.2
25	0.09	1.5	0.19	0.14	0.17	0.07	0.07	0.16	0.09	0.06	0.14	9.4
26	0.09	0.15	0.18	0.22	0.19	0.06	1.2	0.13	0.10	0.07	0.15	11.9
27	0.09	0.14	0.15	0.13	0.17	0.06	0.08	0.12	0.09	0.07	2.5	4.8
28	0.10	0.13	0.12	0.14	0.13	0.06	0.08	0.12	0.10	0.07	8.9	10
29	0.10	0.13	0.11	0.35	---	0.06	0.08	0.12	0.13	0.07	7.6	5.3
30	0.10	0.13	0.11	2.6	---	0.05	0.08	0.13	0.75	0.09	0.85	2.8
31	0.10	---	0.10	1.1	---	0.05	---	0.13	---	0.09	0.18	---
MEAN	0.10	0.93	0.49	0.35	1.2	0.18	0.09	0.09	0.36	0.74	0.75	3.9
MAX	0.69	5.1	4.4	2.6	3.8	3.2	1.2	0.16	6.5	13.3	8.9	11.9
MIN	0.06	0.11	0.10	0.10	0.13	0.05	0.04	0.06	0.09	0.06	0.09	0.14

02326900 ST. MARKS RIVER NEAR NEWPORT, FL

LOCATION.--Lat 30° 16'22", long 84° 08'92", in NE$^{1}/_{4}$ sec. 32, T. 2 S., R. 2 E., Wakulla County, Hydrologic Unit 03120001, on right bank 0.5 mi downstream from Rhodes Springs, 6.4 mi north of Newport, 11 mi upstream from Wakulla River, and 14.4 mi upstream from mouth.

DRAINAGE AREA.--535 mi^2 including 240 mi^2 of Lake Miccosukee, which contributes at high stages to the St. Marks River.

PERIOD OF RECORD.--October 1956 to September 1976. October 1976 to September 1977 (gage heights only); October 1977 to September 1990; October 1990 to September 1991 (gage heights and peak discharge only); October 1991 to September 1994; July 1996 to current year.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3.53 ft above National Geodetic Vertical Datum of 1929. Prior to July 1, 2004, at site 0.4 mi downstream at same datum.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	818	593	635	670	554	655	810	877	574	599	1,030	802
2	779	594	625	645	557	668	1,090	887	573	605	1,050	798
3	741	592	610	631	563	674	1,120	906	581	616	1,110	796
4	711	595	597	620	563	641	1,250	898	580	632	1,200	793
5	689	592	589	612	562	604	1,210	930	584	626	1,200	769
6	674	586	581	609	557	579	1,180	987	584	616	1,190	743
7	663	580	579	603	557	566	1,280	956	584	612	1,250	722
8	653	578	574	602	556	646	1,350	952	584	606	1,270	704
9	650	571	572	600	556	632	1,300	941	587	619	1,270	689
10	649	565	592	595	554	630	1,340	891	591	1,030	1,250	678
11	658	565	584	590	545	651	1,360	838	616	1,670	1,210	e670
12	659	593	577	582	547	629	1,380	784	634	1,820	1,180	e660
13	652	621	572	582	546	591	1,360	743	643	2,150	1,130	652
14	643	611	565	599	549	565	1,280	710	701	2,010	1,080	643
15	658	615	558	594	553	544	1,200	679	705	1,880	1,040	637
16	661	622	552	590	552	604	1,130	651	683	1,750	1,030	635
17	654	611	552	583	559	e640	1,070	667	663	1,610	1,020	632
18	649	596	550	581	561	e655	1,010	653	644	1,490	972	627
19	645	587	549	578	558	e660	948	647	636	1,380	926	621
20	654	594	544	574	556	e650	899	637	626	1,310	891	616
21	658	592	542	570	555	641	867	629	618	1,280	869	618
22	649	585	545	567	558	625	832	618	612	1,270	861	628
23	641	582	561	561	556	622	805	611	608	1,250	834	627
24	637	604	562	554	562	606	735	606	603	1,210	835	626
25	630	639	570	558	563	607	695	596	597	1,160	822	623
26	624	626	724	562	560	610	699	592	596	1,110	805	629
27	618	629	747	560	616	623	742	585	595	1,060	790	634
28	612	662	738	554	670	652	720	580	597	1,020	785	632
29	607	654	776	553	---	682	696	574	599	987	782	628
30	603	644	764	558	---	702	722	572	602	997	789	624
31	597	---	708	557	---	706	---	571	---	1,020	793	---
MEAN	659	603	606	587	562	631	1,036	734	613	1,161	1,009	672
MAX	818	662	776	670	670	706	1,380	987	705	2,150	1,270	802
MIN	597	565	542	553	545	544	695	571	573	599	782	616
IN.	1.42	1.26	1.31	1.27	1.09	1.36	2.16	1.58	1.28	2.50	2.17	1.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY)

MEAN	639	541	569	616	720	875	835	666	683	728	779	732
MAX	1,375	976	1,470	1,360	1,680	2,520	2,760	1,474	1,465	1,440	2,220	1,563
(WY)	(1958)	(1960)	(1965)	(1987)	(1986)	(1991)	(1973)	(1965)	(1965)	(1994)	(1994)	(1957)
MIN	282	263	280	345	335	338	378	371	355	360	370	336
(WY)	(2002)	(2002)	(2002)	(1957)	(1957)	(1957)	(1968)	(1968)	(1968)	(1968)	(1968)	(1968)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1957 - 2005	
ANNUAL MEAN	693		741		700	
HIGHEST ANNUAL MEAN					1,148	1994
LOWEST ANNUAL MEAN					403	1968
HIGHEST DAILY MEAN	1,150	Feb 17	2,150	Jul 13	4,700	Apr 6, 1973
LOWEST DAILY MEAN	489	Jan 8	542	Dec 21	251	Oct 23, 2001
ANNUAL SEVEN-DAY MINIMUM	491	Jan 7	548	Dec 16	253	Nov 15, 2001
MAXIMUM PEAK FLOW			2,180	Jul 13	4,750	Apr 7, 1973
MAXIMUM PEAK STAGE			8.88	Jul 13	11.81	Apr 7, 1973
INSTANTANEOUS LOW FLOW			535	Mar 15	249	Oct 22, 2001
ANNUAL RUNOFF (INCHES)	17.64		18.81		17.77	
10 PERCENT EXCEEDS	882		1,140		1,070	
50 PERCENT EXCEEDS	662		632		623	
90 PERCENT EXCEEDS	551		561		402	

e Estimated

02327022 WAKULLA RIVER NEAR CRAWFORDVILLE, FL

LOCATION.--Lat 30° 12'49", long 84° 15'42", in NW$^{1}/_{4}$ sec. 20, T. 3 S., R. 1 E., Wakulla County, Hydrologic Unit 03120001, on downstream side of bridge on County Road 365, 5.2 mi northeast of Crawfordville, 5.4 mi northwest of St. Marks, and 6.5 mi above mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1907, 1917, 1929, 1930 (one discharge measurement each water year); February 1931 to June 1932 and July 1941 to September 1982 (gage heights and discharge measurements only); October 2004 to September 2005.

GAGE.--Water-stage and water-current meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 6, 1942, nonrecording gage at same site at datum 2.42 ft above National Geodetic Vertical Datum of 1929. Oct. 6, 1942 to Sept. 30, 2003, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records poor. Flow affected by tide. Discharges computed from continuous velocity record obtained from water-current meter.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period Oct. 22 to Sept. 30, 2,050 ft^3/s, July 11; maximum gage height, 9.02 ft, July 10.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	390	418	528	532	427	628	575	527	582	753	728
2	---	415	377	523	538	399	743	593	544	563	765	700
3	---	442	362	536	552	403	787	608	541	565	800	690
4	---	411	363	518	525	400	823	609	522	583	827	677
5	---	382	364	512	434	395	821	646	528	602	877	633
6	---	343	409	515	451	387	817	665	537	593	910	585
7	---	343	451	504	482	380	879	686	545	602	967	546
8	---	377	474	498	420	473	846	719	539	591	1,010	524
9	---	365	413	487	411	460	850	708	535	595	1,060	524
10	---	331	429	473	455	468	809	718	562	398	1,050	524
11	---	371	394	467	357	488	815	713	591	1,760	1,030	534
12	---	440	354	469	315	512	916	635	708	1,680	1,010	544
13	---	506	376	477	340	517	883	649	699	1,730	985	586
14	---	494	356	533	402	516	844	614	729	1,610	972	568
15	---	411	319	434	450	518	770	590	758	1,650	950	579
16	---	387	323	411	452	554	712	639	781	1,600	921	600
17	---	408	352	384	476	591	667	623	757	1,530	902	608
18	---	446	413	367	433	648	626	609	726	1,480	878	583
19	---	472	447	368	345	683	597	580	710	1,420	848	568
20	---	512	415	413	345	708	563	588	667	1,370	814	549
21	---	514	402	424	403	690	545	599	660	1,270	793	436
22	395	505	448	479	407	692	532	460	631	1,140	766	614
23	389	492	551	501	379	705	538	473	613	1,030	745	661
24	380	493	549	393	371	665	492	466	612	944	733	678
25	389	518	505	392	366	644	453	471	587	895	735	665
26	382	421	467	447	341	617	445	470	576	832	664	622
27	374	402	444	500	377	621	501	491	614	773	650	573
28	374	454	478	496	406	649	460	546	603	731	858	568
29	374	423	500	439	---	600	449	535	578	693	909	611
30	374	415	513	494	---	577	518	534	588	736	978	604
31	387	---	532	522	---	569	---	532	---	746	799	---
TOTAL	---	12,883	13,198	14,504	11,765	16,956	20,329	18,344	18,568	31,294	26,959	17,882
MEAN	---	429	426	468	420	547	678	592	619	1,009	870	596
MAX	---	518	551	536	552	708	916	719	781	1,760	1,060	728
MIN	---	331	319	367	315	380	445	460	522	398	650	436
MED	---	418	415	479	409	554	689	599	597	832	877	585
AC-FT	---	25,550	26,180	28,770	23,340	33,630	40,320	36,390	36,830	62,070	53,470	35,470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	429	426	468	420	547	678	592	619	1,009	870	596
MAX	---	429	426	468	420	547	678	592	619	1,009	870	596
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	429	426	468	420	547	678	592	619	1,009	870	596
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

02327033 LOST CREEK AT ARRAN, FL

LOCATION.--Lat 30° 11'17", long 84° 24'30", in SE$^{1}/_{4}$ sec. 26, T. 3 S., R. 2 W., Wakulla County, Hydrologic Unit 03120001, on downstream side of bridge on State Highway 368, and 0.5 mi east of Arran.

DRAINAGE AREA.--70.4 mi^2.

PERIOD OF RECORD.--October 1928 to May 1981, miscellaneous discharge measurements only; October 1998 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is not determined.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	e34	50	182	26	273	258	196	45	55	199	155
2	e87	e32	47	152	26	258	855	315	63	51	216	163
3	69	e28	41	131	31	224	1,110	313	92	66	254	214
4	e56	e29	36	114	37	190	853	254	82	118	350	197
5	48	36	32	99	42	156	586	231	69	126	469	150
6	e43	e40	29	86	42	128	425	271	106	102	456	114
7	e36	e43	26	76	38	108	374	285	119	82	506	83
8	e34	e37	25	68	34	215	461	246	89	63	830	61
9	e27	35	28	62	30	347	535	205	81	53	1,030	47
10	e26	e30	69	56	27	367	512	169	97	378	793	38
11	e24	e28	101	51	23	311	418	137	153	2,180	622	31
12	e23	e24	98	46	20	255	322	109	326	2,490	538	26
13	e22	e20	86	42	18	202	254	87	487	1,870	626	21
14	e21	e15	77	68	17	162	203	69	769	1,210	673	18
15	e34	e13	65	108	20	134	166	55	1,180	724	504	16
16	e44	e11	56	123	23	216	137	45	e563	500	357	13
17	e36	e9.4	49	116	23	473	112	41	428	593	276	11
18	e28	e7.5	43	104	22	641	91	37	278	807	214	9.1
19	e21	5.9	39	87	19	572	73	55	e208	827	173	7.5
20	31	6.3	35	72	17	462	60	47	e143	703	141	5.8
21	86	5.1	31	62	15	355	49	65	e92	486	118	5.2
22	e123	4.3	28	55	14	270	42	95	e75	337	92	4.4
23	e106	3.8	29	48	12	222	40	105	56	254	72	7.0
24	e105	9.1	32	43	14	187	38	93	50	208	59	18
25	e84	17	38	38	16	169	35	74	73	166	82	17
26	e60	15	158	35	18	187	36	57	100	131	320	13
27	e58	18	277	32	48	231	62	41	e78	101	435	11
28	e53	35	333	29	191	257	86	29	55	77	292	27
29	e46	41	318	27	---	242	99	21	46	63	206	49
30	e40	49	275	28	---	206	100	16	43	127	177	38
31	e39	---	223	27	---	173	---	14	---	173	156	---
MEAN	52.1	22.7	89.5	73.1	30.8	264	280	122	202	488	362	52.3
MAX	123	49	333	182	191	641	1,110	315	1,180	2,490	1,030	214
MIN	21	3.8	25	27	12	108	35	14	43	51	59	4.4
IN.	0.85	0.36	1.47	1.20	0.46	4.33	4.43	2.00	3.19	7.99	5.94	0.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	101	43.1	50.8	72.4	102	288	66.5	25.7	157	174	242	204
MAX	277	166	168	148	347	831	280	122	359	488	652	596
(WY)	(1999)	(2003)	(2003)	(2003)	(2004)	(2003)	(2005)	(2005)	(2004)	(2005)	(2001)	(2000)
MIN	33.8	2.67	2.56	32.8	30.8	32.1	4.11	1.52	1.27	1.20	10.5	50.7
(WY)	(2002)	(1999)	(1999)	(2000)	(2005)	(2000)	(1999)	(2000)	(2000)	(2000)	(2000)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	128		171		127	
HIGHEST ANNUAL MEAN					206	2003
LOWEST ANNUAL MEAN					57.0	1999
HIGHEST DAILY MEAN	1,200	Jun 17	2,490	Jul 12	3,960	Sep 23, 2000
LOWEST DAILY MEAN	0.00	Apr 25	3.8	Nov 23	0.00	Apr 25, 2004
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 23	6.0	Nov 18	0.00	Apr 23, 2004
MAXIMUM PEAK FLOW			2,680	Jul 11	4,170	Sep 23, 2000
MAXIMUM PEAK STAGE			15.33	Jul 11	18.19	Sep 23, 2000
INSTANTANEOUS LOW FLOW			3.3	Nov 23	0.00	Oct 7, 2003
ANNUAL RUNOFF (INCHES)	24.84		33.04		24.60	
10 PERCENT EXCEEDS	332		458		299	
50 PERCENT EXCEEDS	54		73		41	
90 PERCENT EXCEEDS	6.3		18		2.5	

e Estimated

02327100 SOPCHOPPY RIVER NEAR SOPCHOPPY, FL
(Hydrologic bench-mark station)

LOCATION.--Lat 30° 07'45", long 84° 29'40", in NW1/4 sec. 24, T. 4 S., R. 3 W., Wakulla County, Hydrologic Unit 03120003, Apalachicola National Forest, near left bank on downstream side of bridge on U.S. Forest Road 343, 4.7 mi north of Sopchoppy, 5.2 mi upstream from Duval Branch, and 24 mi upstream from mouth.

DRAINAGE AREA.--102 mi^2.

PERIOD OF RECORD.--Water years 1961-64 (annual maximum); June 1964 to current year.

REVISED RECORDS.--WSP 1905, WRD FL-76-4: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Jan. 27, 1961 to June 3, 1964, nonrecording gage and crest-stage gage at same site at datum 9.63 ft higher.

REMARKS.--Records good, except for Oct. 1 to Nov. 18, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e165	22	89	346	37	531	595	479	22	30	98	188
2	e140	17	78	289	38	500	1,940	573	38	25	168	165
3	e115	15	68	243	51	412	1,980	519	64	32	370	126
4	e95	15	58	206	55	349	1,540	413	61	72	637	98
5	e71	35	51	175	55	294	1,000	476	55	98	867	79
6	44	41	45	150	54	244	679	650	61	77	908	62
7	35	40	41	130	47	203	608	593	64	65	1,030	47
8	29	33	42	115	43	519	694	477	90	50	1,220	34
9	23	26	55	102	36	663	682	370	147	51	1,260	25
10	20	20	185	92	31	663	596	288	138	691	1,020	18
11	23	15	273	82	27	562	484	224	235	1,850	800	14
12	28	13	269	73	23	448	386	171	601	2,130	642	11
13	28	14	239	65	20	358	324	128	656	1,850	528	8.5
14	26	13	207	122	19	291	268	95	562	1,310	436	6.8
15	34	13	174	178	26	237	217	71	456	789	374	5.7
16	51	12	146	186	30	457	172	54	375	553	304	5.0
17	46	12	122	172	29	836	134	54	295	410	247	4.5
18	41	12	105	146	25	901	104	49	217	315	211	4.1
19	34	11	89	124	21	794	82	42	160	249	182	3.9
20	73	12	76	108	18	639	65	39	115	201	148	3.7
21	128	13	64	95	16	514	52	85	82	175	122	3.9
22	136	12	55	85	14	415	43	132	59	167	102	4.7
23	126	12	64	77	13	363	42	123	42	146	82	4.9
24	113	21	77	68	15	312	48	96	32	132	71	10
25	93	45	91	59	18	287	44	69	32	107	108	14
26	80	39	473	51	19	302	41	48	37	86	186	14
27	67	42	665	46	112	341	89	32	30	66	222	13
28	54	84	680	41	470	371	115	21	26	50	203	16
29	43	91	604	37	---	360	109	15	24	37	157	28
30	36	91	508	39	---	314	117	14	26	35	158	35
31	28	---	416	40	---	264	---	18	---	58	176	---
MEAN	65.3	28.0	197	121	48.6	443	442	207	160	384	421	35.1
MAX	165	91	680	346	470	901	1,980	650	656	2,130	1,260	188
MIN	20	11	41	37	13	203	41	14	22	25	71	3.7
MED	46	16	91	102	28	371	194	96	64	107	222	14
IN.	0.74	0.31	2.23	1.36	0.50	5.01	4.83	2.34	1.75	4.34	4.75	0.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	113	60.5	142	241	281	332	171	63.4	154	249	309	225
MAX	783	470	843	849	753	1,137	1,065	424	535	763	1,005	1,084
(WY)	(1995)	(1986)	(1965)	(1991)	(1986)	(2003)	(1973)	(1991)	(2003)	(1975)	(1994)	(2000)
MIN	1.86	1.58	2.87	11.1	22.4	27.6	4.77	1.70	1.31	3.06	6.14	4.76
(WY)	(1994)	(1991)	(1992)	(1985)	(1989)	(2000)	(2004)	(1992)	(2000)	(1977)	(1990)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL MEAN	180		214		194	
HIGHEST ANNUAL MEAN					334	1991
LOWEST ANNUAL MEAN					43.4	1968
HIGHEST DAILY MEAN	1,350	Jun 18	2,130	Jul 12	6,610	Sep 23, 2000
LOWEST DAILY MEAN	3.2	Apr 28	3.7	Sep 20	0.69	Jul 7, 2000
ANNUAL SEVEN-DAY MINIMUM	3.4	Apr 23	4.2	Sep 17	0.79	Jul 2, 2000
MAXIMUM PEAK FLOW			2,170	Jul 12	7,100	Sep 23, 2000
MAXIMUM PEAK STAGE			27.76	Jul 12	34.47	Jul 31, 1975
INSTANTANEOUS LOW FLOW			3.4	Sep 21	0.63	Jul 7, 2000
ANNUAL RUNOFF (INCHES)	24.08		28.55		25.83	
10 PERCENT EXCEEDS	505		595		514	
50 PERCENT EXCEEDS	74		86		62	
90 PERCENT EXCEEDS	6.8		15		3.3	

e Estimated

02328522 OCHLOCKONEE RIVER NEAR CONCORD, FL

LOCATION.--Lat 30°40'08", long 84°18'19", in SW$^{1}/_{4}$ sec. 11, T. 3 N., R. 1 W., Gadsden County, Hydrologic Unit 03120003, near center of stream on downstream side of bridge on State Highway 12, and 3.7 mi east of Concord.

DRAINAGE AREA.--1002 mi^2.

PERIOD OF RECORD.--November 1920 to October 1990 (miscellaneous discharge measurements), October 1998 to current year.

GAGE.--Water-stage recorder. Datum of the gage is 69.81 ft above National Vertical Datum of 1929 (levels by Creech Engineers, Inc).

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,080	509	3,000	2,730	904	1,310	8,260	1,200	228	493	1,140	1,010
2	3,940	477	2,750	2,420	962	1,620	12,400	1,380	241	497	2,030	1,070
3	4,000	448	2,430	2,080	1,040	1,790	15,100	1,520	383	538	3,330	1,130
4	3,630	434	2,100	1,850	1,140	1,870	15,400	1,540	833	638	3,110	1,090
5	3,110	454	1,850	1,680	1,210	1,880	13,400	1,620	1,210	736	2,590	953
6	2,420	535	1,660	1,540	1,210	1,810	10,400	1,840	1,230	889	2,550	783
7	1,900	567	1,460	1,390	1,170	1,680	8,520	2,060	1,130	1,190	2,420	621
8	1,630	545	1,290	1,270	1,130	1,780	7,930	2,190	993	1,580	2,850	495
9	1,370	500	1,250	1,160	1,090	1,750	e7,310	2,230	1,010	1,760	2,960	409
10	1,140	449	1,260	1,080	1,020	1,680	e6,690	2,210	1,270	2,170	3,220	347
11	953	405	1,340	1,020	949	1,560	e6,070	1,980	1,500	3,700	3,530	303
12	830	380	1,530	970	886	1,440	e5,450	1,730	1,750	7,850	3,560	272
13	765	381	1,790	926	842	1,340	e4,840	1,470	2,170	20,000	3,440	245
14	738	434	2,080	958	827	1,230	4,210	1,220	2,740	21,500	3,030	225
15	761	448	2,420	1,060	828	1,110	3,380	1,020	3,280	14,500	2,420	209
16	756	441	2,460	1,260	847	1,250	2,720	851	3,720	9,290	1,900	197
17	753	422	2,160	1,400	852	1,650	2,210	709	4,190	6,480	1,610	186
18	730	393	1,840	1,480	831	2,440	1,910	603	4,080	4,830	1,320	174
19	693	370	1,610	1,520	804	3,550	1,740	538	3,510	3,680	1,080	164
20	689	355	1,390	1,510	767	3,850	1,570	543	2,780	2,850	898	155
21	823	518	1,210	1,430	731	3,720	1,400	582	2,120	2,250	750	149
22	1,070	1,030	1,060	1,310	691	3,250	1,230	578	1,720	1,870	646	147
23	1,200	1,740	1,010	1,170	648	3,220	1,140	531	1,400	1,630	607	146
24	1,230	1,930	1,030	1,050	627	6,700	1,080	470	1,130	1,450	674	148
25	1,180	1,930	1,170	957	629	9,670	1,060	417	875	1,300	698	151
26	1,060	2,170	1,420	880	653	12,500	1,050	372	682	1,160	762	146
27	924	2,810	1,700	818	702	13,100	1,090	337	558	1,050	887	142
28	795	2,990	2,200	767	943	13,900	1,120	306	506	956	946	142
29	691	3,100	2,730	725	---	13,800	1,110	280	464	832	951	156
30	607	3,120	2,920	711	---	12,000	1,070	259	468	701	974	175
31	550	---	2,910	789	---	9,510	---	238	---	740	954	---
MEAN	1,420	1,010	1,840	1,287	890	4,450	5,029	1,059	1,606	3,842	1,866	385
MAX	4,000	3,120	3,000	2,730	1,210	13,900	15,400	2,230	4,190	21,500	3,560	1,130
MIN	550	355	1,010	711	627	1,110	1,050	238	228	493	607	142
IN.	1.63	1.12	2.12	1.48	0.93	5.12	5.60	1.22	1.79	4.42	2.15	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	686	497	528	644	937	2,405	1,347	312	614	1,207	878	578
MAX	2,357	1,571	1,840	1,287	2,679	6,133	5,029	1,059	1,606	3,842	2,602	1,491
(WY)	(1999)	(2003)	(2005)	(2005)	(2004)	(2003)	(2005)	(2005)	(2005)	(2005)	(2003)	(2004)
MIN	86.3	52.3	69.0	176	243	677	178	67.8	35.7	40.1	30.0	80.4
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(1999)	(1999)	(1999)	(2000)	(2000)	(2000)	(1999)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	1,011		2,067		887	
HIGHEST ANNUAL MEAN					2,067	2005
LOWEST ANNUAL MEAN					245	2002
HIGHEST DAILY MEAN	6,970	Feb 18	21,500	Jul 14	21,500	Jul 14, 2005
LOWEST DAILY MEAN	82	May 31	142	Sep 27	14	Aug 29, 2000
ANNUAL SEVEN-DAY MINIMUM	95	May 26	146	Sep 22	15	Aug 26, 2000
MAXIMUM PEAK FLOW			23,700	Jul 13	23,700	Jul 13, 2005
MAXIMUM PEAK STAGE			41.50	Jul 13	41.50	Jul 13, 2005
INSTANTANEOUS LOW FLOW			139	Sep 27	14	Aug 29, 2000
ANNUAL RUNOFF (INCHES)	13.74		28.01		12.03	
10 PERCENT EXCEEDS	2,200		3,710		1,940	
50 PERCENT EXCEEDS	601		1,170		399	
90 PERCENT EXCEEDS	180		407		58	

e Estimated

02329000 OCHLOCKONEE RIVER NEAR HAVANA, FL

LOCATION.--Lat 30°33'14", long 84°23'03", in SE$^{1}/_{4}$ sec. 24,T.2N.,R.2W., Leon County, Hydrologic Unit 03120003, near center of downstream side of downstream bridge on divided U.S. Highway 27, 0.8 mi upstream from Seaboard Air Line Railroad bridge, 4.0 mi downstream from Mill Creek, 5.0 mi southeast of Havana, and 94 mi upstream from mouth.

DRAINAGE AREA.--1,140 mi^2, approximately. At site used prior to January 1929, 1,220 mi^2, approximately.

PERIOD OF RECORD.--June 1926 to current year. June 1926 to December 1929 (published as "at Ochlockonee"). Records published for both sites December 1928 to December 1929.

REVISED RECORDS.--WSP 822: 1929 (M). WSP 1504: 1928. WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 59.36 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1930, nonrecording gage at site about 10 mi downstream at datum 9.36 ft lower. Dec. 12, 1928, to Nov. 17, 1963, nonrecording gage at site 100 ft upstream at present datum. Nov. 18, 1963 to Nov. 15, 1976, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,360	503	2,530	2,420	738	905	7,950	1,340	342	659	1,010	1,040
2	1,950	470	2,490	2,380	813	1,060	8,230	1,350	331	647	1,270	1,050
3	2,540	441	2,380	2,240	883	1,280	11,000	1,390	393	676	1,820	1,050
4	2,940	424	2,210	2,040	930	1,450	12,400	1,470	586	732	2,590	1,070
5	2,910	423	2,010	1,820	986	1,600	12,500	1,600	801	785	3,060	1,040
6	2,590	425	1,800	1,600	1,030	1,650	11,000	1,810	1,020	816	3,330	947
7	2,250	463	1,570	1,420	1,040	1,630	9,880	1,940	1,130	905	3,190	821
8	1,900	484	1,360	1,280	1,020	1,900	8,820	2,060	1,080	1,070	2,960	701
9	1,530	469	1,220	1,170	994	1,840	7,890	2,140	996	1,330	2,900	600
10	1,250	440	1,130	1,070	959	1,720	7,390	2,180	998	2,330	2,920	523
11	1,030	407	1,100	1,010	910	1,570	6,750	2,160	1,210	4,220	3,030	465
12	863	393	1,130	955	856	1,430	6,390	2,040	1,540	4,470	3,240	419
13	753	388	1,240	915	803	1,310	5,870	1,820	1,860	8,490	3,340	382
14	683	377	1,430	944	773	1,210	5,100	1,510	2,100	16,000	3,310	347
15	726	395	1,700	948	763	1,110	4,320	1,260	2,380	14,700	3,090	317
16	720	405	1,940	976	757	1,260	3,650	1,070	2,760	11,200	2,500	292
17	684	397	2,050	1,070	751	1,460	3,160	930	3,210	8,820	2,220	270
18	663	381	1,980	1,180	748	1,620	2,730	814	3,680	6,950	1,860	250
19	642	364	1,780	1,250	730	1,980	2,380	723	3,810	5,550	1,490	230
20	660	359	1,490	1,300	711	2,450	2,140	665	3,440	4,440	1,240	212
21	655	421	1,280	1,310	686	2,890	1,920	656	2,890	3,610	1,050	200
22	706	541	1,110	1,260	660	3,000	1,690	661	2,370	3,070	917	195
23	836	788	1,030	1,170	629	2,850	1,530	651	1,970	2,570	824	193
24	933	1,220	978	1,060	616	2,770	1,400	612	1,580	2,230	798	190
25	977	1,640	962	970	594	4,530	1,300	561	1,260	1,950	819	189
26	957	1,740	1,170	896	589	7,530	1,250	512	1,010	1,700	806	188
27	882	1,850	1,340	831	656	10,600	1,270	471	835	1,460	834	184
28	785	2,150	1,490	772	842	10,500	1,240	436	737	1,310	891	178
29	691	2,360	1,820	733	---	10,800	1,220	403	687	1,200	952	176
30	611	2,470	2,140	719	---	10,500	1,220	377	711	1,110	1,020	188
31	547	---	2,350	703	---	9,000	---	356	---	990	1,010	---
MEAN	1,201	786	1,620	1,239	802	3,400	5,120	1,160	1,591	3,742	1,945	464
MAX	2,940	2,470	2,530	2,420	1,040	10,800	12,500	2,180	3,810	16,000	3,340	1,070
MIN	547	359	962	703	589	905	1,220	356	331	647	798	176
MED	863	440	1,490	1,070	768	1,720	3,990	1,070	1,170	1,950	1,820	305
IN.	1.21	0.77	1.64	1.25	0.73	3.44	5.01	1.17	1.56	3.78	1.97	0.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2005, BY WATER YEAR (WY)

MEAN	512	406	732	1,280	1,935	2,321	1,888	792	641	760	832	580
MAX	6,892	3,594	6,057	4,332	9,355	7,718	9,368	4,282	3,867	3,742	6,098	4,279
(WY)	(1995)	(1948)	(1965)	(1993)	(1986)	(1984)	(1948)	(1964)	(1973)	(2005)	(1928)	(1935)
MIN	22.0	26.5	37.0	65.5	116	167	173	60.6	37.6	42.5	34.1	26.8
(WY)	(1955)	(1934)	(1934)	(1934)	(1957)	(1955)	(1927)	(1927)	(2000)	(2000)	(2000)	(1954)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1926 - 2005	
ANNUAL MEAN	963		1,931		1,052	
HIGHEST ANNUAL MEAN					2,854	1948
LOWEST ANNUAL MEAN					209	1968
HIGHEST DAILY MEAN	7,010	Feb 19	16,000	Jul 14	53,100	Apr 4, 1948
LOWEST DAILY MEAN	97	Jun 1	176	Sep 29	17	Oct 23, 1954
ANNUAL SEVEN-DAY MINIMUM	107	May 27	185	Sep 24	17	Oct 22, 1954
MAXIMUM PEAK FLOW			17,000	Jul 14	55,900	Apr 4, 1948
MAXIMUM PEAK STAGE			30.06	Jul 14	35.08	Apr 4, 1948
INSTANTANEOUS LOW FLOW			170	Sep 29	17	Oct 23, 1954
ANNUAL RUNOFF (INCHES)	11.50		23.00		12.54	
10 PERCENT EXCEEDS	2,190		3,510		2,560	
50 PERCENT EXCEEDS	594		1,170		459	
90 PERCENT EXCEEDS	199		422		84	

02329000 OCHLOCKONEE RIVER NEAR HAVANA, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.89	15.61	23.04	22.81	17.09	17.98	27.12	19.85	14.42	16.19	18.48	18.65
2	21.56	15.38	22.96	22.71	17.49	18.75	27.25	19.87	14.32	16.11	19.57	18.68
3	23.01	15.17	22.70	22.36	17.86	19.63	28.31	20.02	14.79	16.29	21.24	18.70
4	23.65	15.05	22.29	21.83	18.11	20.24	28.81	20.29	16.07	16.62	23.09	18.77
5	23.60	15.04	21.75	21.21	18.38	20.62	28.82	20.62	17.31	16.92	23.80	18.65
6	23.13	15.06	21.15	20.63	18.60	20.75	28.32	21.19	18.41	17.08	24.16	18.19
7	22.37	15.33	20.56	20.12	18.64	20.71	27.92	21.55	18.86	17.56	23.98	17.54
8	21.44	15.48	19.92	19.63	18.55	21.43	27.50	21.88	18.64	18.40	23.67	16.87
9	20.45	15.38	19.38	19.18	18.42	21.28	27.10	22.09	18.23	19.50	23.60	16.25
10	19.50	15.17	19.03	18.80	18.25	20.92	26.86	22.20	18.22	22.03	23.61	15.75
11	18.57	14.92	18.91	18.48	18.00	20.56	26.54	22.16	19.07	24.78	23.77	15.34
12	17.76	14.82	19.03	18.23	17.72	20.15	26.35	21.85	20.21	25.02	24.05	15.02
13	17.17	14.79	19.49	18.03	17.44	19.73	26.06	21.22	21.02	27.14	24.18	14.75
14	16.76	14.70	20.15	18.17	17.28	19.35	25.59	20.38	21.67	29.78	24.14	14.53
15	17.01	14.84	20.88	18.20	17.23	18.96	25.06	19.54	22.36	29.47	23.85	14.34
16	16.98	14.91	21.55	18.33	17.19	19.52	24.52	18.78	23.02	28.39	22.98	14.18
17	16.77	14.85	21.86	18.78	17.16	20.26	23.95	18.10	23.62	27.50	22.30	14.03
18	16.64	14.73	21.68	19.22	17.14	20.68	23.34	17.50	24.14	26.64	21.32	13.89
19	16.51	14.59	21.10	19.52	17.04	21.65	22.72	17.00	24.25	25.87	20.32	13.75
20	16.62	14.56	20.34	19.71	16.93	22.85	22.10	16.66	23.87	25.15	19.46	13.61
21	16.59	15.02	19.61	19.72	16.78	23.57	21.49	16.60	23.14	24.48	18.69	13.49
22	16.90	15.87	18.94	19.54	16.62	23.73	20.86	16.63	22.23	23.82	18.04	13.44
23	17.62	17.34	18.58	19.18	16.43	23.51	20.44	16.57	21.19	23.09	17.56	13.42
24	18.12	19.38	18.35	18.72	16.35	23.41	20.05	16.33	20.14	22.34	17.42	13.39
25	18.34	20.73	18.27	18.31	16.22	25.14	19.69	16.00	19.10	21.58	17.53	13.38
26	18.24	20.98	19.19	17.93	16.18	26.91	19.50	15.68	18.06	20.88	17.46	13.37
27	17.86	21.30	19.86	17.59	16.58	28.18	19.57	15.39	17.18	20.24	17.61	13.33
28	17.34	22.14	20.34	17.27	17.65	28.15	19.48	15.14	16.65	19.74	17.91	13.27
29	16.81	22.65	21.22	17.06	---	28.28	19.41	14.89	16.35	19.31	18.22	13.24
30	16.32	22.92	22.11	16.98	---	28.14	19.38	14.69	16.50	18.95	18.56	13.37
31	15.91	---	22.63	16.88	---	27.57	---	14.53	---	18.40	18.52	---
MEAN	18.69	16.62	20.54	19.20	17.40	22.34	24.14	18.55	19.43	21.91	20.94	15.17
MAX	23.65	22.92	23.04	22.81	18.64	28.28	28.82	22.20	24.25	29.78	24.18	18.77
MIN	15.91	14.56	18.27	16.88	16.18	17.98	19.38	14.53	14.32	16.11	17.42	13.24

02329558 ST. MATTHEWS CHURCH BRANCH NEAR QUINCY, FL

LOCATION.--Lat 30° 35'34", long 84° 31'18 ", in NE 1/4 sec. 10, T.2N., R.3W., Gadsden County, Hydrologic Unit 03120003, at upstream side of culvert on State Road 12, and 3.6 mi east of the city hall in Quincy.

DRAINAGE AREA.--0.49 mi^2.

PERIOD OF RECORD.--October 1996 to September 1997 (fragmentary), October 1997 to September 2001, October 2001 to September 2002 (fragmentary), October 2002 to current year. Prior to October 2003, published as Church Branch near Quincy.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--No estimated daily discharges. Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1.3	0.63	0.87	0.92	1.0	14	1.3	0.53	0.30	0.90	0.40
2	2.7	1.2	0.56	0.82	1.5	0.88	4.6	0.49	0.43	1.5	1.1	0.38
3	2.6	1.2	0.50	0.79	1.3	0.86	1.9	0.44	1.8	0.58	1.5	0.35
4	2.5	3.1	0.48	0.73	0.86	0.79	1.6	0.41	0.60	0.53	1.3	0.43
5	2.4	2.7	0.45	0.71	0.75	0.70	1.2	5.3	0.43	0.44	3.1	0.28
6	2.3	2.3	0.45	0.65	0.70	0.62	1.1	1.2	0.45	0.38	2.0	0.34
7	2.2	2.2	0.55	0.65	0.65	5.2	9.6	0.73	0.81	0.44	7.6	0.27
8	2.2	2.2	0.56	0.64	0.63	8.0	2.1	0.58	0.64	0.35	0.95	0.32
9	2.2	2.1	0.91	0.58	0.58	3.7	1.5	0.52	0.64	3.8	0.67	0.29
10	2.2	2.0	0.95	0.58	0.58	3.2	1.0	0.51	0.78	25	0.72	0.32
11	2.6	2.0	0.48	0.58	0.56	2.6	0.88	0.48	5.1	4.5	2.5	0.24
12	2.6	3.6	0.44	0.56	0.53	2.1	0.90	0.43	1.7	2.0	0.80	0.26
13	2.3	2.7	0.41	1.00	0.53	2.0	0.84	0.40	0.96	1.4	0.61	0.29
14	2.2	2.4	0.40	2.7	1.3	2.1	0.78	0.41	0.60	1.2	0.50	0.23
15	7.8	2.2	0.40	1.4	0.74	2.2	0.71	0.49	0.42	1.2	0.44	0.26
16	3.3	2.2	0.40	1.2	0.61	20	0.70	0.43	0.40	1.1	0.42	0.32
17	3.0	2.1	0.40	1.1	0.52	7.8	0.71	0.38	0.36	1.1	0.40	0.30
18	2.8	2.0	0.40	1.1	0.50	4.8	0.88	0.31	0.30	0.97	0.38	0.30
19	2.7	2.1	0.40	1.1	0.47	3.6	0.80	0.35	0.33	1.9	0.36	0.36
20	7.5	3.6	0.40	1.0	0.45	3.2	0.78	0.34	0.32	1.3	0.37	0.30
21	2.1	7.0	0.38	0.99	0.45	3.1	0.70	0.68	0.31	1.1	0.35	0.34
22	1.9	0.18	0.38	0.95	0.45	3.3	0.64	0.54	0.32	0.96	0.36	0.44
23	1.6	0.42	3.2	0.91	0.88	3.8	1.1	0.38	0.29	0.87	0.38	0.38
24	1.5	5.7	0.93	0.91	1.1	2.8	0.66	0.33	0.28	0.83	0.52	0.39
25	1.5	1.4	1.3	0.91	0.71	3.1	0.58	0.32	0.30	0.76	0.44	0.30
26	1.5	0.80	11	0.91	0.59	8.0	3.0	0.35	0.33	0.74	0.37	0.41
27	1.5	3.4	2.0	0.88	3.3	6.9	1.1	0.36	0.33	0.73	0.37	0.55
28	1.4	1.4	1.6	0.82	1.8	1.5	0.82	0.33	0.38	0.70	0.40	0.48
29	1.4	0.62	1.3	1.4	---	1.0	0.71	0.32	0.39	0.74	1.1	0.45
30	1.3	0.61	1.1	1.3	---	1.1	6.8	0.32	0.33	0.80	0.46	0.47
31	1.4	---	0.97	0.88	---	2.7	---	0.35	---	0.79	0.36	---
MEAN	2.52	2.22	1.11	0.96	0.86	3.63	2.09	0.64	0.70	1.90	1.02	0.35
MAX	7.8	7.0	11	2.7	3.3	20	14	5.3	5.1	25	7.6	0.55
MIN	1.3	0.18	0.38	0.56	0.45	0.62	0.58	0.31	0.28	0.30	0.35	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	1.34	1.49	1.41	1.70	2.17	2.87	2.17	1.14	1.21	1.40	1.61	1.66
MAX	2.52	3.46	2.76	4.35	3.86	7.26	4.81	2.67	4.01	2.79	5.14	3.82
(WY)	(2005)	(1998)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)
MIN	0.31	0.15	0.14	0.25	0.86	0.56	0.48	0.19	0.19	0.24	0.13	0.18
(WY)	(2003)	(2002)	(2002)	(2003)	(2005)	(2004)	(2004)	(2002)	(2002)	(2002)	(2002)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL MEAN	1.32		1.51		1.76	
HIGHEST ANNUAL MEAN					3.76	2001
LOWEST ANNUAL MEAN					0.97	2004
HIGHEST DAILY MEAN	11	Feb 14	25	Jul 10	28	Sep 29, 1998
LOWEST DAILY MEAN	0.16	May 25	0.18	Nov 22	0.06	Jun 10, 1999
ANNUAL SEVEN-DAY MINIMUM	0.18	May 24	0.27	Sep 9	0.11	Sep 17, 2002
MAXIMUM PEAK FLOW			93	Jul 10	163	Sep 29, 1998
MAXIMUM PEAK STAGE			3.22	Jul 10	4.31	Sep 29, 1998
INSTANTANEOUS LOW FLOW			0.14	Nov 22	0.00	Jun 10, 1999
10 PERCENT EXCEEDS	2.7		3.1		3.7	
50 PERCENT EXCEEDS	0.65		0.80		1.2	
90 PERCENT EXCEEDS	0.29		0.34		0.34	

02329600 LITTLE RIVER NEAR MIDWAY, FL

LOCATION.--Lat 30° 30'44", long 84° 31'25", in SW1/4 sec. 3, T.1N., R. 3W., Gadsden County, Hydrologic Unit 03120003, at bridge on State Highway 268, 0.5 mi upstream from Monroe Creek, 3.2 mi above mouth, and 3.7 mi west of Midway.

DRAINAGE AREA.--305 mi^2.

PERIOD OF RECORD.--Annual maximums, water years 1965 to 1985. October 1985 to current year.

GAGE.--Water-stage recorder and crest-stage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 22, 1985, nonrecording and crest-stage gages at same site and datum.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	58	376	e400	272	1,030	1,480	896	88	188	396	542
2	216	54	295	e300	245	816	5,580	1,000	207	208	423	674
3	206	51	258	250	326	423	6,240	860	565	357	634	423
4	149	57	237	240	346	283	3,110	496	2,200	266	769	271
5	111	123	219	231	281	261	1,940	513	2,040	285	875	211
6	90	108	208	220	223	246	1,150	936	1,170	251	1,140	151
7	74	90	201	213	194	234	1,590	941	790	199	2,450	113
8	66	68	216	214	196	1,140	3,380	767	818	167	3,080	106
9	72	66	319	213	200	1,390	4,020	446	557	160	2,410	108
10	74	72	381	209	181	772	2,450	306	376	1,300	1,520	108
11	72	81	436	203	155	378	1,520	244	590	6,850	913	107
12	80	115	396	204	136	285	878	217	1,370	6,640	825	104
13	111	230	324	208	128	249	590	194	1,820	3,570	671	101
14	118	212	253	486	159	239	506	160	1,750	2,180	469	98
15	284	157	210	648	249	228	434	148	1,310	1,260	373	98
16	251	120	192	596	247	853	378	153	919	695	286	101
17	194	99	169	407	209	1,740	330	157	412	528	269	105
18	167	97	167	256	168	1,960	295	157	266	454	369	109
19	115	108	166	223	149	2,070	266	128	230	340	299	112
20	368	138	152	218	144	1,240	248	150	193	421	209	108
21	433	616	136	215	147	509	243	233	144	316	204	110
22	382	988	143	216	146	383	232	251	113	272	191	139
23	250	824	277	209	146	442	279	182	103	258	186	160
24	172	930	521	191	216	2,470	412	155	110	254	263	126
25	136	1,250	608	166	241	3,360	374	143	91	243	314	100
26	110	1,250	1,010	163	221	2,110	322	130	76	228	347	93
27	95	1,360	1,290	158	389	5,670	543	115	87	220	251	120
28	91	1,350	1,260	142	1,080	7,070	449	100	109	220	193	201
29	87	850	1,140	147	---	3,840	308	96	142	214	220	181
30	80	536	785	227	---	2,280	299	89	205	223	405	168
31	68	---	e600	287	---	1,350	---	72	---	317	507	---
MEAN	161	402	418	260	243	1,462	1,328	337	628	938	692	172
MAX	433	1,360	1,290	648	1,080	7,070	6,240	1,000	2,200	6,850	3,080	674
MIN	66	51	136	142	128	228	232	72	76	160	186	93
IN.	0.61	1.47	1.58	0.98	0.83	5.53	4.86	1.27	2.30	3.55	2.62	0.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2005, BY WATER YEAR (WY)

MEAN	308	300	320	542	651	810	383	203	305	304	353	255
MAX	2,542	1,497	876	1,694	2,139	1,791	1,328	1,136	875	1,003	1,617	1,249
(WY)	(1995)	(1998)	(1986)	(1991)	(1986)	(1991)	(2005)	(1991)	(1989)	(1994)	(1994)	(1994)
MIN	24.0	26.8	38.3	96.0	80.0	195	116	15.5	9.25	21.2	47.0	49.3
(WY)	(1991)	(2002)	(2002)	(1989)	(2002)	(2004)	(1999)	(2001)	(2000)	(2000)	(2000)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1986 - 2005	
ANNUAL MEAN	249		589		394	
HIGHEST ANNUAL MEAN					709	1991
LOWEST ANNUAL MEAN					106	2000
HIGHEST DAILY MEAN	1,380	Feb 15	7,070	Mar 28	30,300	Oct 3, 1994
LOWEST DAILY MEAN	5.8	Sep 5	51	Nov 3	4.3	Jun 12, 2000
ANNUAL SEVEN-DAY MINIMUM	33	May 26	65	Oct 29	4.4	Jun 10, 2000
MAXIMUM PEAK FLOW			9,260	Apr 2	49,200	Sep 22, 1969
MAXIMUM PEAK STAGE			78.80	Apr 2	86.25	Sep 22, 1969
INSTANTANEOUS LOW FLOW			49	Nov 3	2.1	Sep 6, 2004
ANNUAL RUNOFF (INCHES)	11.13		26.22		17.53	
10 PERCENT EXCEEDS	610		1,350		881	
50 PERCENT EXCEEDS	148		247		195	
90 PERCENT EXCEEDS	48		101		49	

e Estimated

02330000 OCHLOCKONEE RIVER NEAR BLOXHAM, FL

LOCATION.--Lat 30° 22'59", long 84° 39'18", in NE1/4 sec. 20, T. 1 S., R. 4 W., Leon County, Hydrologic Unit 03120003, on left bank at Old State Highway 20(Crooked Road), 3,000 ft downstream from C.H. Corn Hydroelectric Dam, 1.5 mi southwest of Bloxham, and 65 mi upstream from mouth.

DRAINAGE AREA.--1,700 mi^2, approximately.

PERIOD OF RECORD.--June 1926 to current year. Low-flow records not equivalent prior to October 1, 1954, due to undetermined amount of seepage inflow.

REVISED RECORDS.--WSP 1002: 1940-42. WSP 1704: 1958-59. WSP 1905, WRD FL-76-4: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.69 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 9, 1930, nonrecording gage at site 2,700 ft upstream at datum 5.00 ft higher, Apr. 9, 1930 to Jan. 19, 1939, water-stage recorder at site 2,000 ft upstream at datum 5.00ft higher, Jan. 20, 1939 to Sept. 30, 1954, water-stage recorder at present site at datum 5.00 ft higher, Oct. 1, 1954 to Sept. 30, 1985, water-stage recorder at present site and datum, Oct. 1, 1985 to Aug. 27, 1997, at site 2,000 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Records good, except those below 150 ft^3/s which are fair. Flow regulated since 1929 by C.H. Corn Hydroelectric Dam (formerly Jackson Bluff Dam) above station and storage in Lake Talquin (02329900). Since October 1981, the publication of adjusted values for storage has been discontinued since the difference between adjusted and the unadjusted values have been minimal. Maximum discharge, 89,400 ft^3/s, Sept. 23, 1969, gage height, 29.2 ft, from floodmark; minimum discharge, since October 1954, 1.0 ft^3/s, Nov. 1, 1957, caused by closure of breaks in earth embankment of C.H. Corn Hydroelectric Dam (indeterminate prior to October 1954).

EXTREMES OUTSIDE THE PERIOD OF RECORD.--Maximum stage since 1834, 32.64 ft, Sept. 30, 1957, from flood marks established by local resident, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,720	1,020	2,920	2,760	1,340	2,910	8,910	4,090	333	797	1,530	2,500
2	1,720	860	2,660	2,850	1,360	2,410	9,690	3,110	238	581	2,590	1,750
3	2,080	664	2,780	2,700	1,370	2,000	12,400	2,690	1,330	946	3,230	1,590
4	3,110	529	2,580	2,660	1,500	1,420	11,400	2,500	3,120	1,750	4,350	1,570
5	3,250	658	2,660	2,320	1,510	1,520	10,400	2,410	3,390	1,790	5,450	1,570
6	3,290	669	2,370	2,360	1,470	1,610	11,200	3,720	2,940	1,560	5,470	1,570
7	2,930	667	2,280	2,030	1,160	2,530	11,300	3,850	2,540	1,530	6,500	1,400
8	2,630	574	2,150	1,520	1,060	4,580	11,600	2,880	3,180	1,510	7,350	853
9	1,920	140	2,040	1,560	1,280	4,780	10,200	2,910	2,290	1,700	6,440	671
10	1,870	132	1,480	1,550	1,460	3,690	7,290	3,010	3,100	6,440	5,050	595
11	1,850	134	1,490	1,400	1,260	2,740	6,760	2,850	2,640	11,100	4,450	572
12	1,210	223	1,530	1,140	1,200	2,190	6,180	2,550	4,360	11,600	6,170	568
13	802	443	1,690	1,370	1,190	1,740	5,670	2,450	5,630	8,070	5,170	567
14	950	552	1,880	1,560	1,190	1,700	5,320	2,300	4,840	10,400	4,070	565
15	1,530	878	1,670	1,570	1,200	1,860	5,610	1,550	3,780	15,500	4,110	354
16	1,810	914	1,900	1,850	1,190	3,460	4,760	1,370	3,600	13,300	4,200	310
17	1,320	766	2,240	2,350	1,190	4,740	3,930	1,350	3,570	9,820	3,150	306
18	814	339	2,270	1,900	979	4,620	3,740	1,340	3,570	7,830	2,880	301
19	1,030	195	2,050	1,210	824	3,820	3,580	1,340	3,710	5,910	2,850	321
20	2,260	277	1,980	1,390	815	3,700	2,840	1,190	4,150	5,150	2,360	427
21	2,620	742	1,740	1,510	812	3,570	2,640	1,100	3,720	5,140	1,350	507
22	1,790	1,540	1,380	1,520	959	3,620	2,400	1,590	3,350	4,380	1,860	893
23	1,470	2,020	1,500	1,500	1,090	4,120	2,300	1,190	2,470	2,960	1,430	1,020
24	1,110	3,120	1,520	1,520	1,330	3,490	2,210	597	2,240	3,150	1,830	1,000
25	1,290	3,300	1,580	1,470	1,060	5,720	2,090	650	2,200	3,200	1,900	616
26	1,660	3,470	3,800	1,260	1,030	6,070	2,160	719	1,830	2,600	1,880	393
27	1,400	3,550	3,550	1,220	1,290	10,600	2,270	850	930	2,010	1,860	266
28	1,050	3,890	2,990	1,160	2,790	13,800	2,280	829	700	1,700	1,490	319
29	1,010	3,370	2,880	1,100	---	12,700	2,210	496	1,050	1,890	1,070	574
30	1,160	3,190	2,860	1,090	---	9,700	2,420	1,060	1,660	1,870	1,600	604
31	1,210	---	2,470	1,100	---	9,170	---	803	---	1,860	1,980	---
MEAN	1,738	1,294	2,222	1,694	1,247	4,535	5,859	1,914	2,749	4,776	3,407	818
MAX	3,290	3,890	3,800	2,850	2,790	13,800	12,400	4,090	5,630	15,500	7,350	2,500
MIN	802	132	1,380	1,090	812	1,420	2,090	496	238	581	1,070	266
IN.	1.18	0.85	1.51	1.15	0.76	3.08	3.85	1.30	1.80	3.24	2.31	0.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2005, BY WATER YEAR (WY)

MEAN	1,012	801	1,319	1,998	2,826	3,354	2,774	1,327	1,198	1,329	1,507	1,275
MAX	10,550	4,943	8,913	5,671	12,290	9,313	13,240	4,880	4,942	4,776	6,835	7,890
(WY)	(1995)	(1948)	(1965)	(1993)	(1986)	(1984)	(1948)	(1964)	(1973)	(2005)	(1928)	(1969)
MIN	50.0	52.5	82.6	222	243	296	327	172	73.5	66.3	116	120
(WY)	(1955)	(1955)	(1959)	(1935)	(1957)	(1955)	(1999)	(1927)	(2000)	(2000)	(2000)	(1958)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1926 - 2005	
ANNUAL MEAN	1,488		2,700		1,699	
HIGHEST ANNUAL MEAN					4,516	1948
LOWEST ANNUAL MEAN					315	1955
HIGHEST DAILY MEAN	6,130	Feb 20	15,500	Jul 15	73,200	Sep 23, 1969
LOWEST DAILY MEAN	66	Apr 24	132	Nov 10	1.0	Jul 14, 1931
ANNUAL SEVEN-DAY MINIMUM	128	Apr 23	314	Nov 8	2.6	Sep 26, 1958
MAXIMUM PEAK FLOW			16,100	Jul 14	89,400	Sep 25, 1969
MAXIMUM PEAK STAGE			21.55	Jul 14	29.20	Sep 23, 1969
INSTANTANEOUS LOW FLOW			100	Nov 19	1.0	Nov 1, 1957
ANNUAL RUNOFF (INCHES)	11.92		21.56		13.58	
10 PERCENT EXCEEDS	3,140		5,530		4,120	
50 PERCENT EXCEEDS	1,140		1,870		980	
90 PERCENT EXCEEDS	271		662		160	

02330100 TELOGIA CREEK NEAR BRISTOL, FL

LOCATION.--Lat 30°25'35", long 84°55'40", in NW1/4 sec. 3, T. 1 S., R. 7 W., Liberty County, Hydrologic Unit 03120003, near left bank at downstream side of bridge on State Highway 20, 600 ft upstream from White Branch, 3.0 mi east of Bristol, and 33 mi upstream from mouth.

DRAINGAGE AREA.--126 mi^2.

PERIOD OF RECORD.--March 1950 to September 1971, October 1974 to September 1979, October 1980 to current year.

REVISED RECORDS.--WSP 1504: 1950-51, 1953 (M), 1955-56.

GAGE.--Water-stage recorder. Datum of gage is 99.50 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.-Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	112	223	176	150	760	1,120	519	133	135	201	853
2	152	110	185	165	154	452	3,040	749	233	126	241	457
3	136	108	167	156	197	194	2,250	531	439	132	261	294
4	123	107	154	149	237	162	1,050	226	940	161	327	188
5	114	126	146	142	197	152	635	210	1,050	297	270	158
6	107	168	142	138	156	138	424	407	560	513	294	140
7	103	140	140	137	136	133	505	612	554	386	464	129
8	100	116	144	137	126	511	1,600	465	760	246	811	123
9	97	106	156	137	119	1,020	1,380	223	836	178	1,420	117
10	97	100	188	137	115	866	764	173	613	624	1,020	112
11	104	98	210	133	111	337	476	153	582	2,660	546	106
12	122	114	182	128	107	192	318	140	1,010	2,660	639	102
13	135	176	152	131	104	162	257	129	1,370	1,420	881	98
14	129	213	137	254	119	145	231	121	1,220	819	452	95
15	169	173	127	479	175	138	208	114	963	473	240	92
16	210	134	122	466	191	427	193	108	543	397	219	91
17	187	117	120	222	151	1,220	178	109	259	498	269	91
18	135	109	119	164	129	1,360	166	112	192	365	200	90
19	116	105	118	145	115	705	158	134	171	262	162	89
20	404	107	116	139	107	350	150	178	156	224	173	88
21	1,220	154	115	133	103	217	144	456	142	251	224	89
22	958	215	114	129	103	187	141	995	130	203	195	141
23	381	279	155	128	106	191	150	829	123	172	511	126
24	200	392	295	125	162	230	172	322	115	158	485	146
25	168	729	498	121	236	228	169	170	112	148	391	128
26	152	880	619	118	190	191	172	135	114	137	454	107
27	138	626	828	118	230	563	291	118	114	128	300	138
28	128	432	935	116	518	1,180	372	e106	118	124	184	263
29	124	465	488	117	---	1,110	230	e102	138	170	162	243
30	119	368	250	139	---	572	206	e100	143	192	392	163
31	115	---	195	163	---	359	---	105	---	166	995	---
MEAN	214	236	243	166	162	466	572	286	461	465	432	169
MAX	1,220	880	935	479	518	1,360	3,040	995	1,370	2,660	1,420	853
MIN	97	98	114	116	103	133	141	100	112	124	162	88
IN.	1.96	2.09	2.23	1.52	1.34	4.27	5.06	2.61	4.08	4.26	3.95	1.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2005, BY WATER YEAR (WY)

MEAN	174	162	196	249	291	331	235	157	175	211	225	211
MAX	867	642	749	766	812	1,100	615	788	605	510	726	1,268
(WY)	(1995)	(1998)	(1965)	(1991)	(1986)	(1991)	(1958)	(1991)	(1965)	(1956)	(1994)	(1969)
MIN	35.4	46.9	69.3	71.1	59.7	45.1	61.0	28.4	28.6	45.9	47.0	38.4
(WY)	(1955)	(1991)	(1991)	(1989)	(2001)	(1955)	(1999)	(2001)	(2000)	(2000)	(1954)	(1954)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1950 - 2005	
ANNUAL MEAN	195		324		218	
HIGHEST ANNUAL MEAN					478	1965
LOWEST ANNUAL MEAN					78.9	2000
HIGHEST DAILY MEAN	1,220	Oct 21	3,040	Apr 2	16,600	Sep 22, 1969
LOWEST DAILY MEAN	41	May 31	88	Sep 20	21	Jun 7, 2001
ANNUAL SEVEN-DAY MINIMUM	44	May 26	90	Sep 15	23	Jun 7, 2000
MAXIMUM PEAK FLOW			3,800	Jul 11	20,600	Sep 22, 1969
MAXIMUM PEAK STAGE			8.73	Jul 11	16.65	Sep 22, 1969
INSTANTANEOUS LOW FLOW			85	Sep 21	21	Jun 12, 2000
ANNUAL RUNOFF (INCHES)	21.09		34.86		23.50	
10 PERCENT EXCEEDS	478		783		440	
50 PERCENT EXCEEDS	121		170		129	
90 PERCENT EXCEEDS	66		109		60	

e Estimated

02330150 OCHLOCKONEE RIVER NEAR SMITH CREEK, FL

LOCATION.--Lat 30° 10'35", long 84° 40'05", in NE1/4 sec. 31, T. 3 S., R. 4 W., Wakulla County, Hydrologic Unit 03120002, at bridge on County Road 368 and Forest Road FH-13, 1.3 mi upstream from Smith Creek, 2.0 mi southwest of community of Smith Creek, and 39 mi upstream from mouth.

DRAINAGE AREA.--2,080 mi^2.

PERIOD OF RECORD.--November 1964 to November 1992 (annual peak stage); October 1996 to current year.

REVISED RECORDS.--WRD FL-03-4: 2003.

GAGE.--Water-stage recorder. Datum of gage is not determined. Prior to Nov. 29, 1972, crest-stage gage at NGVD of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage-height, 29.75 ft above NGVD of 1929, Sept. 25, 1969, discharge not determined.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,380	1,670	3,930	3,450	1,420	3,080	15,000	4,250	1,150	1,550	2,700	2,950
2	2,560	1,560	3,630	3,270	1,570	3,610	16,600	6,290	694	1,420	2,920	3,340
3	2,660	1,370	3,320	3,260	1,750	3,470	17,400	6,110	632	1,010	3,810	3,280
4	2,750	1,210	3,160	3,190	1,840	3,050	20,200	4,950	1,560	1,050	4,980	3,040
5	3,240	1,060	3,060	3,070	1,960	2,620	20,200	4,460	2,990	1,610	6,450	2,810
6	3,730	954	2,950	2,910	2,020	2,340	17,500	4,210	4,160	1,960	8,180	2,560
7	3,930	936	2,850	2,760	2,020	2,230	18,100	4,560	4,850	1,970	8,600	2,370
8	3,880	914	2,730	2,620	1,860	2,820	21,100	5,210	4,820	1,900	9,250	2,140
9	3,600	832	2,680	2,310	1,620	4,020	19,800	4,850	5,100	1,980	10,800	1,560
10	3,080	597	2,750	2,090	1,600	5,390	16,600	4,250	4,620	2,990	9,680	1,050
11	2,670	476	2,500	2,020	1,720	4,860	12,500	4,200	4,610	6,300	8,050	735
12	2,500	434	2,180	1,930	1,710	3,800	10,500	4,120	5,270	15,300	6,850	644
13	2,140	455	2,090	1,710	1,590	3,230	9,020	3,790	6,200	18,700	7,870	615
14	1,520	554	2,110	1,830	1,560	2,740	8,020	3,440	7,610	15,200	7,620	597
15	1,350	636	2,240	2,080	1,560	2,380	7,130	3,200	7,290	15,100	6,310	580
16	1,640	884	2,230	2,290	1,570	2,600	7,000	2,750	6,300	21,400	5,480	500
17	2,160	1,150	2,210	2,370	1,590	3,410	6,610	2,200	5,530	20,100	5,310	427
18	2,240	1,180	2,360	2,570	1,590	4,700	5,630	1,950	5,110	15,600	4,840	405
19	1,750	833	2,480	2,620	1,490	5,180	4,950	2,030	4,820	11,800	4,060	395
20	1,890	577	2,470	2,250	1,310	4,660	4,650	1,950	4,570	9,170	3,650	394
21	2,640	531	2,390	2,010	1,200	4,280	4,230	2,080	4,580	7,680	3,380	436
22	3,700	675	2,270	1,970	1,140	4,040	3,620	2,010	4,550	7,250	2,600	522
23	3,760	1,250	2,070	1,980	1,170	3,760	3,410	2,300	4,210	6,580	2,390	669
24	3,160	1,740	1,940	1,940	1,310	3,770	3,170	2,270	3,680	5,440	2,680	913
25	2,840	2,440	1,990	1,930	1,580	3,750	3,010	1,710	3,060	4,560	3,050	1,060
26	2,650	3,120	2,440	1,910	1,620	4,140	2,980	1,580	2,720	4,390	3,250	830
27	2,630	e3,520	3,280	1,760	1,730	5,740	3,300	1,520	2,460	4,120	3,190	604
28	2,460	e3,780	4,380	1,630	2,260	11,100	3,640	1,370	1,760	3,420	2,950	493
29	2,000	3,990	4,230	1,550	---	19,800	3,610	1,200	1,140	2,690	2,630	463
30	1,700	4,110	3,790	1,470	---	19,500	3,530	821	1,120	2,560	2,490	558
31	1,620	---	3,610	1,420	---	15,600	---	957	---	2,670	2,680	---
MEAN	2,607	1,448	2,785	2,264	1,620	5,344	9,767	3,116	3,906	7,015	5,119	1,231
MAX	3,930	4,110	4,380	3,450	2,260	19,800	21,100	6,290	7,610	21,400	10,800	3,340
MIN	1,350	434	1,940	1,420	1,140	2,230	2,980	821	632	1,010	2,390	394
IN.	1.45	0.78	1.54	1.25	0.81	2.96	5.24	1.73	2.10	3.89	2.84	0.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	1,632	1,454	1,637	1,832	2,484	4,829	2,488	996	1,552	2,199	2,417	1,493
MAX	5,932	4,505	3,954	3,655	5,356	11,780	9,767	3,116	3,906	7,015	6,527	3,298
(WY)	(1999)	(1998)	(1998)	(1998)	(2004)	(2003)	(2005)	(2005)	(2005)	(2005)	(2003)	(2004)
MIN	480	336	395	573	774	1,277	549	291	156	181	243	353
(WY)	(2000)	(2002)	(2002)	(2000)	(2001)	(2000)	(2004)	(2001)	(2000)	(2000)	(2000)	(1997)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL MEAN	2,075		3,868		2,090	
HIGHEST ANNUAL MEAN					3,868	2005
LOWEST ANNUAL MEAN					591	2000
HIGHEST DAILY MEAN	9,330	Feb 26	21,400	Jul 16	31,800	Oct 2, 1998
LOWEST DAILY MEAN	274	May 31	394	Sep 20	128	Jul 22, 2000
ANNUAL SEVEN-DAY MINIMUM	284	May 27	440	Sep 16	135	Jun 11, 2000
MAXIMUM PEAK FLOW			22,200	Jul 16	33,000	Oct 2, 1998
MAXIMUM PEAK STAGE			16.90	Jul 16	18.30	Oct 2, 1998
INSTANTANEOUS LOW FLOW			389	Sep 20	125	Jul 22, 2000
ANNUAL RUNOFF (INCHES)	13.58		25.25		13.65	
10 PERCENT EXCEEDS	3,980		7,610		4,580	
50 PERCENT EXCEEDS	1,770		2,680		1,240	
90 PERCENT EXCEEDS	469		947		306	

e Estimated

02330400 NEW RIVER NEAR SUMATRA, FL

LOCATION.--Lat 30° 02'19", long 84° 50'38", in SE1/4 sec. 16, T. 5 S., R. 6 W., Liberty County, Hydrologic Unit 03130013, on left bank 1,000 ft downstream from closed Owens bridge and dead ends of Forest Road 125 at river, 1.8 mi downstream from Cat Branch, 4.6 mi west of Tate Fire Tower, and 8.2 mi east of Sumatra.

DRAINAGE AREA.--157 mi^2.

PERIOD OF RECORD.-November 1964 to October 1986 (annual maximum discharge and gage-height), December 1996 to June 1998 (fragmentary), July 1998 to current year.

REVISED RECORDS.--WRD FL-2004-4:2003

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929; from USGS Benchmark "TT 24 S"; elevation, 25.587 ft above NGVD of 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,670 ft^3/s, Sept. 23, 1969, gage height 27.38 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	639	385	274	720	55	e530	805	411	33	81	411	484
2	619	287	276	663	64	e550	1,870	e620	26	74	454	455
3	574	211	263	601	78	e500	2,310	e830	28	68	579	426
4	514	216	243	535	84	e410	2,180	1,010	47	66	688	383
5	443	312	221	465	92	e340	1,910	1,120	98	81	943	324
6	361	323	197	393	97	e310	1,600	1,240	174	85	1,410	259
7	273	309	176	321	95	e300	1,380	1,200	232	145	1,700	200
8	199	276	176	259	87	e400	1,250	1,090	318	127	1,740	153
9	150	228	184	214	78	e750	1,290	949	413	107	1,650	114
10	120	180	322	183	69	e940	1,310	820	503	348	e1,670	81
11	109	143	484	159	58	e810	1,230	711	670	750	e1,740	55
12	106	121	565	140	49	e580	1,110	608	792	1,180	1,810	38
13	92	106	575	125	42	e460	966	502	853	1,420	1,710	28
14	77	91	545	168	47	e390	829	393	936	1,440	1,550	e16
15	98	82	488	186	64	e400	722	275	965	1,360	1,330	e9.8
16	93	72	418	201	61	e505	625	201	936	1,230	1,150	8.1
17	75	61	346	229	68	e940	532	198	866	1,080	986	7.2
18	70	50	274	245	67	e1,170	442	141	788	963	e860	6.3
19	64	41	217	241	59	e1,010	352	156	699	865	e770	5.6
20	238	51	176	227	50	e800	299	174	600	787	e720	5.8
21	438	49	147	205	44	e660	e250	232	491	754	e710	5.3
22	665	46	126	184	e45	e520	e210	220	376	831	e780	5.4
23	927	48	130	163	e50	e480	e175	169	254	910	e820	5.2
24	1,070	53	130	136	e80	e450	e165	132	164	931	e790	5.0
25	1,060	80	148	121	e124	e470	149	115	118	884	765	4.6
26	968	92	350	105	e90	e490	162	105	89	808	778	4.4
27	848	138	525	92	e148	e640	184	94	70	719	754	4.6
28	743	239	675	79	e260	e860	194	77	67	642	702	5.6
29	645	256	767	71	---	e990	213	60	74	563	642	6.0
30	560	259	790	68	---	e900	235	48	103	466	588	5.9
31	478	---	766	60	---	683	---	38	---	401	527	---
MEAN	430	160	354	244	78.8	621	832	450	393	651	1,023	104
MAX	1,070	385	790	720	260	1,170	2,310	1,240	965	1,440	1,810	484
MIN	64	41	126	60	42	300	149	38	26	66	411	4.4
IN.	3.16	1.14	2.60	1.79	0.52	4.56	5.91	3.30	2.79	4.78	7.52	0.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	286	162	141	191	220	568	182	120	207	413	588	399
MAX	865	417	354	314	806	1,377	832	450	407	904	1,521	845
(WY)	(1999)	(2003)	(2005)	(2003)	(2004)	(2003)	(2005)	(2005)	(2003)	(2003)	(2001)	(1998)
MIN	28.1	9.72	14.3	75.7	58.8	56.3	7.59	0.00	0.08	0.49	103	73.2
(WY)	(2002)	(1999)	(1999)	(2000)	(2000)	(2000)	(2004)	(2000)	(2000)	(2000)	(2000)	(1999)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL MEAN	324		449		292	
HIGHEST ANNUAL MEAN					449	2005
LOWEST ANNUAL MEAN					113	2000
HIGHEST DAILY MEAN	1,570	Sep 20	2,310	Apr 3	5,370	Aug 8, 2001
LOWEST DAILY MEAN	2.0	May 31	4.4	Sep 26	0.00	Jun 5, 1998
ANNUAL SEVEN-DAY MINIMUM	2.4	May 28	4.9	Sep 21	0.00	Jun 12, 1998
MAXIMUM PEAK FLOW			2,430	Apr 3	5,430	Aug 8, 2001
MAXIMUM PEAK STAGE			23.40	Apr 3	26.31	Aug 8, 2001
INSTANTANEOUS LOW FLOW			4.2	Sep 26	0.00	Sep 11, 1997
ANNUAL RUNOFF (INCHES)	28.12		38.80		25.31	
10 PERCENT EXCEEDS	761		1,010		771	
50 PERCENT EXCEEDS	220		276		122	
90 PERCENT EXCEEDS	4.8		50		2.5	

e Estimated

02358000 APALACHICOLA RIVER AT CHATTAHOOCHEE, FL

LOCATION.--Lat 30° 42'03", long 84° 51'33", in NW1/4 sec. 32, T.4 N., R.6 W., Jackson County, Hydrologic Unit 03130011, on downstream side of abandoned bridge downstream of U.S. Highway 90, 0.6 mi downstream from Jim Woodruff Dam, 0.6 mi upstream from Mosquito Creek, 1.0 mi west of Chattahoochee, and 106 mi upstream from mouth.

DRAINAGE AREA.--17,200 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1939, published as "near River Junction." Gage-height records collected at site 0.9 mi downstream October 1919 to September 1925, and at site approximately 100 ft downstream October 1925 to December 1958 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (National Weather Service bench mark). Prior to Dec. 16, 1939, water-stage recorder at site 0.9 mi downstream at datum 44.85 ft higher. Dec. 16, 1939 to June 25, 1952, water-stage recorder, June 26, 1952 to June 2, 1954, nonrecording gage, and June 3, 1954 to Oct. 14, 1958, water-stage recorder, at site approximately 100 ft downstream at datum 45.58 ft. Oct. 15, 1958 to Sept. 30, 1987, water-stage recorder at datum 40.58 ft.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Seminole Reservoir (02357500) 0.6 mi upstream since Feb. 4, 1957, Walter F. George Lake (02343240) since 1962, Bartlett's Ferry Reservoir (02341000) since 1926, West Point Lake (02339400) since October 1974, and Lake Sidney Lanier Reservoir (02334400) since 1956.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35,700	10,000	42,300	20,800	19,700	33,100	155,000	34,400	16,100	17,400	25,700	25,600
2	31,000	10,800	33,700	20,000	23,100	34,300	158,000	34,200	17,900	17,600	33,900	24,800
3	30,300	14,500	25,600	19,800	23,700	35,600	156,000	35,800	22,700	17,400	40,800	23,000
4	28,400	17,500	23,400	19,800	24,400	35,200	151,000	37,800	30,100	17,000	41,500	21,100
5	23,800	17,600	23,500	18,700	24,900	33,200	144,000	36,600	37,200	17,700	38,900	19,900
6	21,600	17,500	22,900	17,200	27,000	33,100	127,000	33,200	34,900	18,900	34,400	18,700
7	20,600	17,600	22,000	16,100	28,100	30,900	114,000	27,500	31,200	24,100	29,700	19,700
8	19,600	19,200	22,000	16,400	28,100	26,400	121,000	23,500	29,600	35,900	25,500	18,900
9	19,100	20,500	22,100	16,600	26,900	21,900	125,000	21,600	29,900	44,000	29,600	17,300
10	16,000	19,500	22,900	17,400	24,900	20,600	120,000	21,100	30,500	61,100	36,600	16,300
11	13,200	18,900	23,500	15,600	24,700	21,000	100,000	20,800	33,400	76,600	39,100	15,900
12	12,600	18,300	24,700	17,100	26,700	22,300	74,300	20,800	34,400	85,000	42,400	15,500
13	12,300	15,200	27,000	20,100	27,600	22,400	55,400	20,400	34,800	94,000	46,000	14,800
14	12,300	12,700	24,700	26,600	28,100	22,100	44,400	19,000	35,500	99,100	46,300	13,500
15	15,100	11,100	22,500	30,900	27,400	21,900	41,900	18,600	34,100	109,000	43,600	12,300
16	13,500	9,870	22,400	31,000	26,200	23,000	38,800	16,700	31,000	110,000	37,100	12,700
17	11,000	9,370	22,600	30,900	23,800	23,300	37,900	16,100	28,300	111,000	38,300	12,500
18	10,200	10,400	23,700	29,300	22,100	24,100	33,800	15,600	27,600	112,000	42,700	12,400
19	10,700	11,400	22,800	26,600	22,400	25,900	26,200	15,400	29,300	105,000	40,300	11,900
20	13,900	13,300	20,600	24,800	21,800	27,600	23,200	15,500	26,700	88,400	34,800	11,300
21	13,000	13,800	19,800	22,800	20,900	31,000	24,500	16,100	22,600	79,300	29,200	10,500
22	12,000	13,700	20,100	21,100	20,900	29,200	26,100	17,300	20,000	73,200	25,400	11,400
23	11,700	16,200	21,200	17,500	20,900	30,000	25,500	18,300	19,300	68,500	24,900	12,100
24	12,400	24,700	22,400	16,700	21,100	33,800	24,600	18,000	18,000	61,900	24,900	11,800
25	13,000	35,200	28,400	17,800	21,100	34,800	27,100	17,500	16,200	46,800	24,900	11,500
26	13,200	38,200	29,300	17,000	21,100	35,300	35,000	17,500	15,000	34,200	24,000	11,100
27	13,400	42,200	29,500	18,600	24,300	61,300	37,400	17,700	15,000	25,600	21,200	11,000
28	14,100	42,600	29,700	20,500	29,800	95,200	37,100	17,300	15,000	23,500	18,700	11,600
29	12,700	45,100	27,300	22,500	---	121,000	35,300	16,600	14,500	24,200	18,700	11,300
30	11,500	47,800	23,500	22,400	---	138,000	34,100	16,600	14,900	23,700	19,900	12,200
31	10,500	---	20,500	21,600	---	147,000	---	16,300	---	23,800	23,800	---
MEAN	16,400	20,490	24,730	21,100	24,350	41,760	71,790	21,740	25,520	56,320	32,350	15,090
MAX	35,700	47,800	42,300	31,000	29,800	147,000	158,000	37,800	37,200	112,000	46,300	25,600
MIN	10,200	9,370	19,800	15,600	19,700	20,600	23,200	15,400	14,500	17,000	18,700	10,500
MED	13,200	17,500	23,400	20,000	24,300	30,900	40,300	18,300	28,000	46,800	33,900	12,600
IN.	1.10	1.33	1.66	1.41	1.47	2.80	4.66	1.46	1.66	3.78	2.17	0.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

MEAN	12,440	13,360	20,100	27,240	33,270	40,640	34,140	21,680	16,640	17,320	15,120	12,330
MAX	38,500	31,790	70,390	62,470	67,310	171,600	80,700	53,260	39,460	87,780	32,350	28,410
(WY)	(1965)	(1993)	(1949)	(1936)	(1998)	(1929)	(1944)	(1964)	(1973)	(1994)	(2005)	(2004)
MIN	5,319	5,524	7,337	7,262	10,420	12,780	10,880	8,326	4,826	5,117	4,750	5,889
(WY)	(1955)	(1932)	(2002)	(1956)	(1989)	(1955)	(1999)	(2002)	(2000)	(2000)	(1988)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL MEAN	17,240		31,000		21,970	
HIGHEST ANNUAL MEAN					35,680	1929
LOWEST ANNUAL MEAN					8,681	2002
HIGHEST DAILY MEAN	65,900	Sep 19	158,000	Apr 2	291,000	Mar 20, 1929
LOWEST DAILY MEAN	7,360	Jun 6	9,370	Nov 17	3,900	Nov 15, 1987
ANNUAL SEVEN-DAY MINIMUM	7,520	Jun 3	11,200	Nov 14	4,530	Aug 10, 1988
MAXIMUM PEAK FLOW			159,000	Apr 1	293,000	Mar 20, 1929
MAXIMUM PEAK STAGE			70.49	Apr 2	79.55	Mar 20, 1929
INSTANTANEOUS LOW FLOW			8,770	Nov 17	2,570	Aug 6, 1986
ANNUAL RUNOFF (INCHES)	13.65		24.47		17.36	
10 PERCENT EXCEEDS	30,400		46,100		43,400	
50 PERCENT EXCEEDS	13,000		23,300		16,000	
90 PERCENT EXCEEDS	8,800		12,900		8,520	

02358000 APALACHICOLA RIVER AT CHATTAHOOCHEE, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.52	42.41	54.43	46.83	46.40	51.41	70.05	52.15	45.29	45.86	48.76	48.73
2	51.06	42.80	51.57	46.52	47.75	51.81	70.44	52.07	46.06	45.94	51.65	48.40
3	50.83	44.54	48.72	46.44	47.99	52.25	70.21	52.55	48.04	45.85	53.95	47.72
4	50.16	45.92	47.86	46.44	48.26	52.13	69.71	53.18	50.68	45.70	54.19	46.97
5	48.45	45.97	47.92	45.97	48.46	51.45	68.90	52.80	53.00	45.98	53.34	46.47
6	47.60	45.92	47.67	45.35	49.23	51.42	67.03	51.75	52.29	46.51	51.85	46.00
7	47.18	45.94	47.35	44.86	49.65	50.62	65.43	49.85	51.12	48.49	50.22	46.41
8	46.77	46.63	47.35	44.99	49.63	49.01	66.33	48.34	50.62	52.58	48.67	46.09
9	46.58	47.17	47.37	45.11	49.22	47.29	66.78	47.59	50.68	54.92	50.18	45.40
10	45.23	46.75	47.70	45.43	48.46	46.75	66.15	47.41	50.88	57.88	52.60	44.98
11	43.96	46.52	47.93	44.66	48.36	46.95	63.70	47.29	51.83	60.51	53.41	44.77
12	43.68	46.25	48.38	45.30	49.10	47.45	60.14	47.30	52.13	61.72	54.47	44.61
13	43.56	44.89	49.23	46.56	49.47	47.49	57.02	47.12	52.26	62.96	55.57	44.28
14	43.53	43.76	48.37	49.07	49.62	47.38	55.03	46.56	52.47	63.62	55.68	43.70
15	44.84	42.93	47.52	50.63	49.37	47.29	54.36	46.37	52.02	64.84	54.83	43.14
16	44.09	42.33	47.49	50.68	48.96	47.72	53.48	45.56	51.06	65.00	52.77	43.31
17	42.89	42.06	47.57	50.65	48.02	47.85	53.20	45.30	50.14	65.07	53.13	43.20
18	42.49	42.61	48.00	50.08	47.36	48.14	51.93	45.07	49.90	65.19	54.56	43.18
19	42.76	43.09	47.66	49.11	47.50	48.85	49.38	45.01	50.50	64.39	53.80	42.95
20	44.27	44.02	46.76	48.43	47.25	49.44	48.23	45.02	49.57	62.19	51.98	42.65
21	43.88	44.27	46.46	47.65	46.90	50.70	48.71	45.28	48.00	60.91	50.05	42.24
22	43.38	44.20	46.57	46.99	46.91	50.02	49.35	45.81	46.94	60.00	48.65	42.66
23	43.26	45.30	47.01	45.46	46.90	50.33	49.12	46.25	46.69	59.26	48.46	43.03
24	43.60	48.73	47.47	45.14	46.98	51.63	48.78	46.13	46.12	58.16	48.46	42.89
25	43.87	52.38	49.77	45.62	46.97	52.00	49.69	45.90	45.34	55.34	48.45	42.72
26	44.00	53.26	50.07	45.28	46.98	52.15	52.30	45.91	44.82	51.77	48.13	42.55
27	44.06	54.46	50.14	45.93	48.21	57.67	53.05	45.98	44.82	48.70	47.02	42.46
28	44.41	54.58	50.22	46.72	50.27	63.12	52.94	45.81	44.83	47.93	46.01	42.79
29	43.74	55.31	49.36	47.54	---	66.25	52.40	45.54	44.57	48.20	46.01	42.65
30	43.16	56.13	47.90	47.50	---	68.22	52.04	45.54	44.74	48.01	46.47	43.08
31	42.64	---	46.73	47.16	---	69.19	---	45.38	---	48.04	48.02	---
MEAN	45.24	46.70	48.34	46.91	48.22	52.06	57.86	47.48	48.91	55.21	51.01	44.33
MAX	52.52	56.13	54.43	50.68	50.27	69.19	70.44	53.18	53.00	65.19	55.68	48.73
MIN	42.49	42.06	46.46	44.66	46.40	46.75	48.23	45.01	44.57	45.70	46.01	42.24

02358000 APALACHICOLA RIVER AT CHATTAHOOCHEE, FL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1962 to June 1972, January 1974 to current year.

SUSPENDED SEDIMENT DISCHARGE

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Location in X-sect. looking dwnstrm ft from l bank (00009)
OCT						
29...	1525	43.54	12,300	100	6	965
29...	1531	43.54	12,300	100	5	1,090
29...	1533	43.56	12,300	75	8	1,090
29...	1546	43.68	12,600	95	5	1,170
29...	1548	43.67	12,600	100	6	1,170
29...	1558	43.58	12,400	100	5	1,230
29...	1602	43.58	12,400	100	8	1,230
29...	1606	43.56	12,300	100	8	1,250
29...	1608	43.56	12,300	100	7	1,250
29...	1615	43.54	12,300	100	6	1,310
29...	1618	43.54	12,300	96	7	1,310
JUL						
06...	1459	46.52	19,000	100	8	965
06...	1501	46.52	19,000	88	10	965
06...	1510	46.52	19,000	87	11	1,090
06...	1512	46.52	19,000	93	9	1,090
06...	1517	46.52	19,000	96	9	1,170
06...	1519	46.52	19,000	100	7	1,170
06...	1524	46.52	19,000	100	9	1,230
06...	1526	46.52	19,000	100	6	1,230
06...	1529	46.52	19,000	100	6	1,270
06...	1531	46.52	19,000	100	6	1,270
06...	1534	46.52	19,000	100	6	1,310
06...	1535	46.52	19,000	100	9	1,310
SEP						
28...	1434	42.82	11,200	91	9	965
28...	1437	42.81	11,200	94	9	965
28...	1440	42.79	11,200	85	10	1,090
28...	1443	42.78	11,200	84	11	1,090
28...	1446	42.77	11,100	90	8	1,170
28...	1449	42.78	11,200	97	8	1,170
28...	1454	42.79	11,200	94	9	1,230
28...	1458	42.80	11,200	80	11	1,230
28...	1503	42.81	11,200	89	10	1,270
28...	1506	42.81	11,200	89	10	1,270
28...	1510	42.81	11,200	88	10	1,310

02358700 APALACHICOLA RIVER NEAR BLOUNTSTOWN, FL

LOCATION.--Lat 30° 25'30", long 85° 01'53", in NE$^{1}/_{4}$ sec.3, T.1 S., R.8 W., Calhoun County, Hydrologic Unit 03130011, on right bank 500 ft upstream from Neal Lumber Company Landing at McNeal, 0.5 mi upstream from Old River cutoff, 1.5 mi southeast of Blountstown, and 78 mi upstream from mouth.

DRAINAGE AREA.--17,600 mi^2, approximately.

PERIOD OF RECORD.--January 1920 to September 1957 gage-height records collected in this vicinity by the National Weather Service are in the files of the Geological Survey. Miscellaneous discharge measurements from some periods August 1938 to August 1957 are in files of the U.S. Army Corps of Engineers, Mobile, Alabama District. October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 26.96 ft above National Geodetic Vertical Datum of 1929 (National Weather Service benchmark). Prior to Sept. 17, 1921, nonrecording gage near present site at different datum. Sept. 17, 1921 to Aug. 28, 1957, nonrecording gage at several sites within 500 ft of present site at present datum. Since Aug. 26, 1960, auxiliary nonrecording gage at site 2.2 mi upstream at bridge on State Highway 20, at present datum.

COOPERATION.--Records from October 1957 to current year, were collected and computed by the U.S. Army Corps of Engineers and were reviewed by the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 266,000 ft^3/s, Mar. 13, 1998; maximum gage height, 27.23 ft, Mar. 13, 1998; minimum daily discharge, 4,680 ft^3/s (estimated), Aug. 3, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1920, 28.6 ft present datum, Mar. 21, 1929, discharge not determined, from National Weather Service records.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 120,000 ft^3/s, Apr. 2, gage height, 24.17 ft; minimum daily, 10,200 ft^3/s, Nov. 17, 2004.

MAIN CHANNEL ONLY

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33,300	10,500	44,200	23,000	19,800	30,400	113,000	31,800	16,100	17,200	24,200	28,400
2	31,200	10,600	38,100	20,000	21,400	31,900	120,000	31,500	17,100	18,800	29,100	28,600
3	29,700	12,200	29,700	19,500	23,000	33,700	117,000	31,600	e20,700	19,300	36,300	26,200
4	28,900	16,300	25,100	19,500	23,500	34,400	112,000	33,200	e26,200	19,300	39,300	23,000
5	25,500	17,400	24,000	18,900	24,600	29,800	102,000	33,900	32,600	19,200	39,700	21,400
6	22,800	17,400	23,200	17,700	25,700	32,100	92,100	32,500	e32,700	19,400	36,500	20,700
7	21,200	17,400	22,000	16,300	28,700	31,400	76,800	28,700	32,900	20,900	32,500	20,400
8	20,100	17,900	21,800	16,000	29,500	29,000	73,100	25,000	31,000	29,700	27,900	19,800
9	19,500	20,200	21,700	16,300	29,100	24,900	75,900	22,000	30,500	37,400	27,600	18,500
10	17,600	20,100	21,900	16,700	26,300	21,900	76,300	20,900	33,300	43,900	32,700	17,100
11	14,800	19,300	23,000	16,300	27,000	20,900	71,400	20,500	40,100	57,400	36,100	16,800
12	13,300	19,000	23,400	15,800	30,000	21,600	60,800	20,300	44,100	65,300	38,400	16,600
13	12,700	17,100	25,500	18,000	30,900	21,900	50,100	20,300	46,400	71,400	42,200	15,700
14	12,500	14,600	25,500	23,900	31,300	21,700	41,600	19,200	49,900	76,800	44,300	14,500
15	13,800	12,600	23,200	28,900	30,900	21,600	37,500	18,700	49,500	83,600	44,400	13,300
16	14,600	11,100	22,400	29,900	28,600	22,800	34,700	17,300	45,000	90,200	40,400	13,200
17	12,300	10,200	22,300	29,900	25,600	24,600	33,100	16,400	37,400	92,500	38,000	13,100
18	10,900	10,400	23,000	29,500	23,200	24,100	31,500	15,700	33,500	93,700	40,400	12,900
19	10,800	11,200	23,100	27,300	22,300	25,200	26,700	15,500	32,000	93,500	41,700	12,700
20	14,200	12,600	21,500	25,500	21,900	25,900	22,600	15,500	30,400	83,900	37,800	12,000
21	15,200	13,800	20,200	23,700	20,800	28,700	21,600	16,200	25,800	72,600	32,800	11,300
22	13,400	14,000	19,500	21,900	20,400	29,300	23,100	16,800	22,100	66,400	28,300	10,300
23	12,400	14,600	20,500	19,100	20,300	28,000	23,200	18,000	20,600	62,300	26,300	11,100
24	12,300	20,800	21,900	17,000	20,500	27,900	22,800	19,800	19,800	59,200	25,900	11,600
25	12,900	30,900	25,100	17,100	20,600	32,600	22,900	20,200	18,000	52,300	25,600	11,100
26	13,200	34,200	28,100	17,100	20,500	32,700	27,900	20,000	17,100	41,600	25,100	10,900
27	13,300	38,300	28,700	17,600	21,700	38,200	31,500	19,300	16,900	31,300	23,400	10,900
28	13,900	40,500	28,800	18,900	27,000	54,700	32,400	17,600	16,000	25,800	20,400	10,800
29	13,500	41,400	28,000	21,400	---	68,100	31,900	16,900	15,600	25,100	20,200	10,700
30	12,200	44,900	24,900	21,900	---	87,900	31,200	16,700	16,000	24,200	20,000	12,400
31	12,200	---	24,200	21,800	---	103,000	---	e16,200	---	24,000	22,900	---
MEAN	16,910	19,720	24,980	20,850	24,820	34,220	54,560	21,550	28,980	49,620	32,270	15,870
MAX	33,300	44,900	44,200	29,900	31,300	103,000	120,000	33,900	49,900	93,700	44,400	28,600
MIN	10,800	10,200	19,500	15,800	19,800	20,900	21,600	15,500	15,600	17,200	20,000	10,300
IN.	1.11	1.25	1.64	1.37	1.47	2.24	3.46	1.41	1.84	3.25	2.11	1.01

CAL YR 2004 MEAN 16,680 MAX 54,900 MIN 7,210 IN. 12.90
WTR YR 2005 MEAN 28,720 MAX 120,000 MIN 10,200 IN. 22.15

e Estimated

02358700 APALACHICOLA RIVER NEAR BLOUNTSTOWN, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.51	4.67	16.81	10.45	9.06	13.13	23.75	14.32	7.36	7.87	10.87	12.43
2	13.85	4.69	15.49	9.20	9.74	13.58	24.17	14.18	7.85	8.62	12.66	12.49
3	13.39	5.64	13.08	8.95	10.41	14.13	24.14	14.18	e9.45	8.82	14.82	11.63
4	13.08	7.77	11.42	8.97	10.61	14.31	24.02	14.64	e11.62	8.82	15.56	10.41
5	11.85	8.33	10.95	8.69	11.01	12.92	23.70	14.81	13.79	8.81	15.66	9.73
6	10.79	8.32	10.65	8.12	11.44	13.66	23.16	14.36	e13.83	8.87	14.88	9.45
7	10.14	8.30	10.15	7.50	12.53	13.43	22.21	13.10	13.89	9.52	13.76	9.32
8	9.68	8.54	10.06	7.32	12.83	12.63	21.90	11.68	13.30	12.90	12.26	9.06
9	9.41	9.53	10.03	7.45	12.66	11.13	22.08	10.48	13.16	15.12	12.15	8.48
10	8.52	9.47	10.12	7.67	11.68	9.94	22.08	10.01	14.00	16.54	13.82	7.86
11	7.16	9.14	10.53	7.46	11.92	9.52	21.67	9.78	15.74	18.71	14.79	7.71
12	6.39	9.02	10.72	7.20	12.99	9.82	20.52	9.67	16.59	19.69	15.36	7.60
13	6.06	8.13	11.50	8.26	13.29	9.93	19.00	9.62	17.03	20.27	16.21	7.16
14	5.93	6.88	11.50	10.73	13.41	9.87	17.40	9.12	17.62	20.68	16.62	6.54
15	6.65	5.83	10.61	12.59	13.29	9.81	16.40	8.85	17.56	21.13	16.65	5.91
16	7.03	4.93	10.29	12.94	12.51	10.33	15.64	8.21	16.76	21.49	15.81	5.88
17	5.77	4.38	10.22	12.97	11.42	11.03	15.15	7.74	15.12	21.61	15.26	5.83
18	4.96	4.50	10.51	12.80	10.48	10.83	14.63	7.39	14.08	21.67	15.81	5.69
19	4.91	4.97	10.54	12.03	10.13	11.26	12.94	7.24	13.63	21.66	16.11	5.60
20	6.84	5.80	9.90	11.36	9.96	11.52	11.33	7.19	13.11	21.15	15.20	5.22
21	7.33	6.43	9.32	10.66	9.49	12.52	10.92	7.49	11.49	20.36	13.86	4.78
22	6.36	6.52	9.03	9.95	9.30	12.75	11.48	7.79	10.04	19.82	12.38	4.20
23	5.84	6.87	9.47	8.75	9.26	12.38	11.49	8.30	9.42	19.33	11.67	4.69
24	5.79	9.71	10.03	7.79	9.35	12.47	11.29	9.08	9.05	18.95	11.50	4.98
25	6.11	13.52	11.31	7.85	9.41	14.14	11.30	9.24	8.24	18.00	11.40	4.68
26	6.28	14.49	12.40	7.85	9.38	14.28	13.17	9.15	7.86	16.08	11.23	4.59
27	6.30	15.55	12.59	8.07	9.87	15.87	14.35	8.82	7.74	13.41	10.54	4.53
28	6.61	16.06	12.64	8.66	11.94	19.04	14.60	8.06	7.29	11.46	9.31	4.51
29	6.42	16.25	12.36	9.73	---	20.81	14.41	7.73	7.13	11.20	9.22	4.44
30	5.67	16.95	11.21	9.95	---	22.28	14.15	7.63	7.31	10.87	9.13	5.42
31	5.68	---	10.92	9.92	---	23.16	---	e7.42	---	10.79	10.34	---
TOTAL	245.31	261.19	346.36	291.84	309.37	412.48	523.05	307.28	361.06	484.22	414.84	210.82
MEAN	7.91	8.71	11.17	9.41	11.05	13.31	17.43	9.91	12.04	15.62	13.38	7.03
MAX	14.51	16.95	16.81	12.97	13.41	23.16	24.17	14.81	17.62	21.67	16.65	12.49
MIN	4.91	4.38	9.03	7.20	9.06	9.52	10.92	7.19	7.13	7.87	9.13	4.20

CAL YR 2004 TOTAL 2,658.84 MEAN 7.26 MAX 18.93 MIN 2.27
WTR YR 2005 TOTAL 4,167.82 MEAN 11.42 MAX 24.17 MIN 4.20

e Estimated

02358789 CHIPOLA RIVER AT MARIANNA, FL

LOCATION.--Lat 30° 46'22", long 85° 12'59", in SE 1/4 sec. 3, T.4N., R.10W. Jackson County, Hydrologic Unit 03130012, at bridge on downstream side of U.S. Highway 90, 0.6 mi east of courthouse in Marianna, and 78.5 mi upstream from mouth.

DRAINAGE AREA.--464 mi^2.

PERIOD OF RECORD.--April 1913 to October 1986 (miscellaneous discharge measurements), October 1999 to current year .

GAGE.--Water-stage recorder. Elevation of gage is 56 ft above National Geodetic Vertical Datum of 1929, from Topographic map. Prior to Oct. 1, 1999, nonrecording gage at same site at different datum.

REMARKS.--Records fair, except for estimated daily discharges which are poor. Maximum discharge recorded, 4,930 ft^3/sec, Apr. 4,6, gage height, 18.48 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	522	521	1,950	1,140	772	674	3,090	1,900	584	952	760	1,240
2	498	504	1,690	1,020	801	693	3,200	1,890	754	1,230	874	1,350
3	465	489	1,450	958	820	708	3,680	2,080	913	1,200	1,200	1,340
4	436	479	1,230	917	834	653	e4,930	2,490	1,020	923	1,390	1,210
5	415	480	1,080	883	841	604	e5,150	2,630	1,090	782	1,350	1,030
6	396	474	989	847	871	579	4,680	2,380	1,370	948	1,460	862
7	381	476	929	818	852	568	4,270	1,990	1,780	974	1,840	762
8	365	462	899	802	785	595	3,790	1,600	1,930	782	2,270	705
9	353	435	917	797	733	617	3,840	1,320	1,760	682	2,670	665
10	349	410	999	795	706	613	4,490	1,170	1,580	797	2,660	630
11	350	395	1,100	799	685	611	4,430	1,060	1,640	1,080	2,360	601
12	354	404	1,180	808	690	574	3,950	984	1,530	1,400	2,000	577
13	357	422	1,390	860	741	540	3,350	920	1,440	2,050	1,640	561
14	355	423	1,580	1,030	754	521	2,790	865	1,570	2,760	1,430	549
15	385	446	1,480	1,140	711	512	2,330	816	1,850	2,960	1,400	535
16	393	496	1,230	1,260	670	699	2,050	780	1,960	2,730	1,360	521
17	368	473	1,020	1,530	659	832	1,850	762	1,770	2,300	1,340	509
18	348	418	909	1,680	651	891	1,640	720	1,390	2,060	1,450	497
19	348	391	836	1,580	627	991	1,440	684	1,070	2,030	1,430	487
20	478	405	788	1,320	605	1,060	1,300	661	893	2,140	1,240	473
21	642	556	757	1,100	587	918	1,210	674	799	2,140	1,070	460
22	827	598	735	998	577	852	1,160	678	734	1,950	1,020	449
23	1,280	707	850	943	574	1,050	1,150	719	683	1,600	1,260	446
24	1,520	912	973	896	587	1,300	1,140	743	640	1,330	1,380	454
25	1,370	1,180	1,050	860	598	1,530	1,200	681	602	1,230	1,220	460
26	1,010	1,380	1,270	821	602	1,840	1,390	612	573	1,130	1,010	461
27	746	1,800	1,480	788	613	2,300	1,580	572	566	1,050	895	477
28	668	2,270	1,520	763	649	2,260	1,570	546	562	928	824	531
29	625	2,440	1,440	759	---	2,350	1,590	531	604	814	831	542
30	578	2,250	1,390	771	---	2,810	1,770	522	742	750	981	540
31	543	---	1,290	770	---	3,000	---	515	---	719	1,180	---
MEAN	572	770	1,174	982	700	1,089	2,667	1,113	1,147	1,433	1,413	664
MAX	1,520	2,440	1,950	1,680	871	3,000	5,150	2,630	1,960	2,960	2,670	1,350
MIN	348	391	735	759	574	512	1,140	515	562	682	760	446
CFSM	1.23	1.66	2.53	2.12	1.51	2.35	5.75	2.40	2.47	3.09	3.04	1.43
IN.	1.42	1.85	2.92	2.44	1.57	2.71	6.41	2.77	2.76	3.56	3.51	1.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	366	568	628	634	723	1,213	1,190	553	667	758	713	559
MAX	596	1,546	1,174	1,088	1,432	2,347	2,667	1,113	1,147	1,433	1,413	923
(WY)	(2003)	(2003)	(2005)	(2003)	(2004)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)	(2003)
MIN	141	159	194	239	293	590	386	194	151	149	142	159
(WY)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2004)	(2000)	(2000)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL MEAN	783		1,145		714	
HIGHEST ANNUAL MEAN					1,166	2003
LOWEST ANNUAL MEAN					294	2000
HIGHEST DAILY MEAN	2,670	Feb 18	e 5,150	Apr 5	e 5,150	Apr 5, 2005
LOWEST DAILY MEAN	238	Sep 5	348	Oct 18	124	Aug 24, 2000
ANNUAL SEVEN-DAY MINIMUM	242	Aug 31	355	Oct 8	125	Oct 31, 2000
MAXIMUM PEAK FLOW					4,070	Apr 12, 2003
MAXIMUM PEAK STAGE					16.08	Apr 12, 2003
INSTANTANEOUS LOW FLOW			334	Oct 19	120	Aug 25, 2000
ANNUAL RUNOFF (CFSM)	1.69		2.47		1.54	
ANNUAL RUNOFF (INCHES)	22.99		33.52		20.91	
10 PERCENT EXCEEDS	1,650		2,100		1,530	
50 PERCENT EXCEEDS	568		883		509	
90 PERCENT EXCEEDS	325		474		177	

e Estimated

02358795 JACKSON BLUE SPRING NEAR MARIANNA, FL

LOCATION.--Lat 30°47'25", long 85°08'26", in NW1/4 sec. 33, T. 5N., R. 9W., Jackson County, Hydrologic Unit 03130012, at spring vent inside Blue Springs Park, at northeast end of Merritt's Mill Pond reservoir, 0.1 mi southeast of State Road 164, 3.3 mi east of State Highway 71, and 5.2 mi east of Marianna.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1929 to October 1947, August 1973 to February 1985 (miscellaneous discharge measurements), April 2003 to August 2004 (fragmentary),September 2004 to current year. Prior to October 1985, published as Blue Spring near Marianna.

GAGE.--Water-stage recorder. Datum of gage is 64.15 ft above National Geodectic Vertical Datum of 1929 (furnished by Northwest Florida Water Management District).

REMARKS.--No estimated daily discharges. Records poor. Spring flow affected by Merritt's Mill Pond reservoir at all times.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	101	201	139	90	77	284	316	251	180	161	176
2	113	92	204	173	84	64	246	291	244	165	166	182
3	137	103	166	193	86	63	233	243	230	159	165	197
4	153	111	147	162	85	58	248	222	217	157	160	215
5	135	83	147	139	90	58	256	219	236	153	168	233
6	119	88	144	123	102	63	249	219	238	155	182	246
7	110	102	135	117	116	75	282	274	231	158	195	222
8	116	120	136	109	137	86	273	343	238	152	201	201
9	119	141	145	111	139	59	287	349	224	138	194	185
10	138	172	132	119	93	50	384	252	215	143	192	179
11	143	202	127	110	80	52	432	218	175	140	190	189
12	123	208	129	98	76	55	344	205	186	142	192	211
13	121	165	135	110	80	59	303	198	195	147	199	189
14	96	166	130	136	85	61	297	193	194	147	204	172
15	100	191	104	122	78	51	305	192	192	147	202	168
16	72	200	108	134	78	103	390	189	184	154	189	168
17	65	164	121	140	71	82	448	185	189	162	194	179
18	62	161	121	135	67	68	397	185	188	169	194	215
19	58	163	128	111	69	77	382	208	204	164	190	238
20	88	160	122	105	85	100	400	222	220	163	212	251
21	80	175	102	106	91	118	360	242	222	162	249	219
22	94	187	105	107	73	129	348	309	221	159	264	188
23	124	214	127	111	69	138	282	333	213	169	236	166
24	157	239	120	114	70	112	250	245	209	217	224	152
25	176	205	121	96	73	175	239	218	225	245	224	152
26	136	185	134	91	75	263	274	227	277	199	208	162
27	113	192	124	94	95	263	302	219	269	159	170	194
28	114	216	109	92	109	180	254	216	205	149	157	212
29	112	234	112	92	---	159	238	220	201	145	150	216
30	98	202	115	103	---	195	277	211	195	156	155	213
31	102	---	118	101	---	239	---	234	---	159	173	---
MEAN	112	165	131	119	87.4	107	309	239	216	162	192	196
MAX	176	239	204	193	139	263	448	349	277	245	264	251
MIN	58	83	102	91	67	50	233	185	175	138	150	152

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	112	165	126	112	87.4	107	309	213	196	202	245	179
MAX	112	165	131	119	87.4	107	309	271	264	242	297	225
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	112	165	121	106	87.4	107	309	128	109	162	192	115
(WY)	(2005)	(2005)	(2004)	(2004)	(2005)	(2005)	(2005)	(2004)	(2004)	(2005)	(2005)	(2004)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL MEAN	170		170	
HIGHEST ANNUAL MEAN			170	2005
LOWEST ANNUAL MEAN			170	2005
HIGHEST DAILY MEAN	448	Apr 17	448	Apr 17, 2005
LOWEST DAILY MEAN	50	Mar 10	50	Mar 10, 2005
ANNUAL SEVEN-DAY MINIMUM	55	Mar 9	55	Mar 9, 2005
MAXIMUM PEAK FLOW	493	Apr 11	493	Apr 11, 2005
MAXIMUM PEAK STAGE	14.42	Apr 11	14.42	Apr 11, 2005
INSTANTANEOUS LOW FLOW	48	Mar 10	48	Mar 10, 2005
10 PERCENT EXCEEDS	251		251	
50 PERCENT EXCEEDS	163		163	
90 PERCENT EXCEEDS	84		84	

02359000 CHIPOLA RIVER NEAR ALTHA, FL

LOCATION.--Lat 30° 32'02", long 85° 09'55", in NW1/4 sec. 32, T.2 N., R.9 W., Calhoun County, Hydrologic Unit 03130012, on right downstream bank at State Highway 274, 0.9 mi downstream from Holliman Branch, 3.5 mi southwest of Altha, and 54 mi upstream from mouth.

DRAINAGE AREA.--781 mi^2.

PERIOD OF RECORD.--November 1912 to December 1913, September 1921 to September 1927, August 1929 to September 1931, March 1943 to current year. Monthly discharge only for some periods published in WSP 1304.

REVISED RECORDS.--WSP 1384: Drainage area. WSP 1504: 1924, 1925 (M), 1926.

GAGE.--Water-stage recorder. Datum of gage is 19.95 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Jan. 13, 1950, and Mar. 13, 1978 to Mar. 20, 1979, nonrecording gage at same site and datum.

REMARKS.-Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,110	1,040	3,090	2,150	1,620	1,600	5,250	3,350	1,300	1,590	1,630	2,350
2	1,050	1,030	2,800	1,940	1,680	1,490	6,850	3,360	1,610	1,870	1,930	2,370
3	993	985	2,550	1,790	1,840	1,440	7,260	3,300	1,840	2,040	2,260	2,370
4	957	970	2,290	1,740	1,830	1,400	6,780	3,360	2,060	1,950	2,480	2,260
5	950	992	2,040	1,690	1,770	1,290	6,730	3,540	2,100	1,700	2,700	2,050
6	931	957	1,860	1,640	1,710	1,210	7,040	3,600	2,070	1,590	2,910	1,800
7	906	939	1,800	1,570	1,670	1,170	7,270	3,370	2,410	1,780	3,020	1,640
8	871	927	1,780	1,550	1,590	1,470	7,260	2,960	2,640	1,660	3,460	1,520
9	866	899	1,730	1,530	1,530	1,480	6,720	2,580	2,810	1,500	3,900	1,430
10	848	857	1,800	1,490	1,500	1,390	6,050	2,390	2,670	1,860	4,150	1,350
11	851	844	1,860	1,490	1,400	1,310	5,840	2,190	2,850	2,730	4,020	1,270
12	889	895	1,900	1,490	1,340	1,240	5,820	2,040	3,070	3,010	3,650	1,200
13	866	960	1,980	1,640	1,350	1,160	5,560	1,940	2,900	3,120	3,220	1,210
14	873	914	2,180	2,910	1,460	1,110	4,870	1,830	2,810	3,400	2,820	1,180
15	944	886	2,270	2,880	1,510	1,120	4,200	1,740	2,850	3,660	2,580	1,150
16	938	914	2,110	2,670	1,420	1,920	3,660	1,670	2,980	3,740	2,560	1,110
17	911	970	1,850	2,630	1,360	2,730	3,280	1,630	2,910	3,600	2,460	1,080
18	875	908	1,660	2,680	1,300	2,590	3,090	1,570	2,640	3,290	2,420	1,040
19	879	873	1,520	2,700	1,250	2,410	2,860	1,490	2,200	3,130	2,460	1,020
20	1,830	880	1,420	2,520	1,190	2,300	2,630	1,500	1,840	e3,200	2,350	1,000
21	1,800	939	1,390	2,240	1,160	2,140	2,490	1,580	1,650	3,110	2,160	1,030
22	1,720	1,020	1,350	2,030	1,170	1,930	2,380	1,460	1,520	3,040	1,970	1,040
23	1,880	1,440	1,970	1,860	1,160	2,430	2,410	1,420	1,440	2,820	2,170	1,030
24	2,170	2,200	2,100	1,750	1,280	2,640	2,360	1,570	1,350	2,460	2,420	1,010
25	2,230	2,800	2,090	1,710	1,260	2,690	2,310	1,500	1,240	2,190	2,430	1,000
26	2,020	2,720	2,370	1,650	1,230	2,890	2,370	1,330	1,150	2,080	2,200	995
27	1,620	2,710	2,580	1,580	1,360	4,080	2,550	1,270	1,150	2,000	1,980	1,000
28	1,350	3,030	2,650	1,520	1,630	4,720	2,660	1,210	1,230	1,840	1,790	1,140
29	1,250	3,230	2,560	1,510	---	4,450	2,620	1,150	1,280	1,670	1,760	1,120
30	1,180	3,280	2,440	1,640	---	4,180	2,750	1,170	1,360	1,640	2,070	1,100
31	1,090	---	2,330	1,630	---	4,220	---	1,110	---	1,660	2,200	---
MEAN	1,214	1,400	2,075	1,930	1,449	2,200	4,464	2,070	2,064	2,417	2,585	1,362
MAX	2,230	3,280	3,090	2,910	1,840	4,720	7,270	3,600	3,070	3,740	4,150	2,370
MIN	848	844	1,350	1,490	1,160	1,110	2,310	1,110	1,150	1,500	1,630	995
IN.	1.79	2.00	3.06	2.85	1.93	3.25	6.38	3.06	2.95	3.57	3.82	1.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2005, BY WATER YEAR (WY)

MEAN	1,085	990	1,246	1,763	2,096	2,384	2,098	1,337	1,243	1,303	1,220	1,155
MAX	6,000	2,871	3,617	5,936	5,687	5,465	7,200	3,890	3,636	5,353	3,273	7,642
(WY)	(1927)	(2003)	(1948)	(1926)	(1926)	(1998)	(1948)	(1964)	(1989)	(1994)	(1946)	(1926)
MIN	379	370	394	473	563	540	757	587	462	460	417	397
(WY)	(1969)	(1991)	(1956)	(1956)	(2002)	(1955)	(1968)	(2002)	(2000)	(2000)	(2000)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1913 - 2005	
ANNUAL MEAN	1,385		2,106		1,493	
HIGHEST ANNUAL MEAN					2,977	1948
LOWEST ANNUAL MEAN					613	1955
HIGHEST DAILY MEAN	3,530	Sep 17	7,270	Apr 7	21,000	Sep 19, 1926
LOWEST DAILY MEAN	648	Sep 6	844	Nov 11	312	Jun 18, 1972
ANNUAL SEVEN-DAY MINIMUM	682	Aug 31	866	Oct 8	336	Oct 27, 1968
MAXIMUM PEAK FLOW			7,350	Apr 3	25,000	Sep 20, 1926
MAXIMUM PEAK STAGE			24.21	Apr 3	33.55	Sep 20, 1926
INSTANTANEOUS LOW FLOW			838	Oct 11	309	Nov 18, 1990
ANNUAL RUNOFF (INCHES)	24.14		36.61		25.98	
10 PERCENT EXCEEDS	2,400		3,320		2,780	
50 PERCENT EXCEEDS	1,090		1,800		1,120	
90 PERCENT EXCEEDS	809		994		612	

e Estimated

02359051 CHIPOLA RIVER AT COCKRAN LANDING NEAR WEWAHITCHKA, FL

LOCATION.--Lat 30° 06'01", long 85° 10'53", NE$^{1}/_{4}$ sec.30, T.4 S., R.9 W., Gulf County, Hydrologic Unit 03130012, on left bank at Cockran Landing, 2.34 mi downstream from Dead Lake, 1.45 mi southeast of Wewahitchka and 11.5 mi upstream from mouth.

DRAINAGE AREA.--1,206 mi^2, approximately.

PERIOD OF RECORD.-- October 1987 to current year.

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

REMARKS.--No estimated daily discharges. Discharge for main channel only and includes flow diverted from the Apalachicola River through the Chipola Cutoff.

COOPERATION.--Records from October 1987 to current year, were collected and computed by U.S. Army Corps of Engineers and were reviewed by Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined, July 12, 1994, gage height 25.16 ft; minimum discharge 2,460 ft^3/s, Aug. 9, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of January 1978 reached a stage of 25.64 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 20,500 ft^3/s, Apr. 4, gage height, 23.12 ft, Apr. 4; minimum daily discharge, not determined.

MAIN CHANNEL ONLY

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,900	5,950	10,800	---	7,740	8,780	16,600	10,300	6,580	6,740	9,560	8,810
2	9,930	5,690	11,000	---	7,760	9,080	18,900	10,400	6,580	6,860	9,520	9,020
3	9,980	5,560	10,900	---	7,860	9,340	20,200	10,400	6,800	7,140	9,750	9,280
4	9,970	5,760	10,600	---	8,000	9,520	20,500	10,400	7,220	7,330	10,200	9,370
5	9,870	6,150	10,100	---	8,150	9,650	20,300	10,400	7,720	7,480	10,500	9,250
6	9,690	6,540	9,640	---	8,300	9,720	19,700	10,400	8,350	7,520	10,900	8,980
7	9,440	6,760	9,290	---	8,440	9,780	19,100	10,400	8,820	7,560	11,000	8,710
8	9,100	6,880	8,980	---	8,600	10,100	17,600	10,200	9,160	7,710	10,900	8,460
9	8,780	7,030	8,770	---	8,780	10,100	16,300	9,870	9,370	8,140	10,800	8,230
10	8,500	7,220	8,610	---	8,920	9,840	15,800	9,440	9,500	9,020	10,700	7,940
11	8,150	7,360	8,520	---	8,910	9,440	15,600	9,030	9,800	10,400	10,800	7,640
12	7,640	7,420	8,460	6,620	8,880	9,020	15,200	8,660	10,100	11,300	10,900	7,400
13	7,110	7,410	8,490	6,600	8,910	8,760	14,000	8,370	10,400	12,000	11,100	7,200
14	6,740	7,230	8,560	7,010	9,080	8,560	12,900	8,160	10,700	12,500	11,200	6,960
15	6,510	6,840	---	7,700	9,240	8,410	12,500	7,920	10,900	12,700	11,200	6,710
16	6,510	6,340	---	8,490	9,340	8,600	11,900	7,710	11,100	12,500	11,300	6,370
17	6,490	5,850	---	8,960	9,320	8,890	11,400	7,470	11,000	12,000	11,200	6,230
18	6,220	5,460	---	9,230	9,160	9,280	11,000	7,190	10,800	11,700	11,000	6,030
19	5,900	5,280	---	9,330	8,890	9,480	10,700	6,960	10,500	11,500	10,900	5,920
20	6,040	5,280	---	9,320	8,630	9,530	10,400	6,760	10,000	11,500	10,800	5,820
21	6,730	5,440	---	9,230	8,390	9,530	9,940	6,660	9,780	11,800	10,800	5,660
22	7,140	5,650	---	9,010	8,180	9,580	9,560	6,620	9,360	12,400	10,600	5,470
23	7,090	5,790	---	8,730	8,020	9,640	9,420	6,710	8,920	12,700	10,300	5,310
24	6,910	6,180	---	8,300	8,010	9,690	9,240	6,760	8,490	12,700	10,000	5,290
25	6,810	7,150	---	7,820	7,940	9,970	9,100	6,810	8,100	12,400	9,870	5,310
26	6,790	8,180	---	7,510	7,910	10,200	9,260	6,820	7,680	12,000	9,730	5,260
27	6,790	9,070	---	7,300	8,160	10,300	9,500	6,790	7,350	11,600	9,580	5,250
28	6,740	9,710	---	7,210	8,460	10,700	9,650	6,760	7,110	11,000	9,340	5,240
29	6,700	10,200	---	7,240	---	11,400	9,800	6,720	6,910	10,400	9,020	5,350
30	6,480	10,500	---	7,420	---	12,200	10,000	6,650	6,760	9,940	8,870	5,470
31	6,250	---	---	7,600	---	13,900	---	6,580	---	9,690	8,720	---
MEAN	7,642	6,863	---	---	8,499	9,774	13,540	8,204	8,862	10,330	10,360	6,931
MAX	9,980	10,500	---	---	9,340	13,900	20,500	10,400	11,100	12,700	11,300	9,370
MIN	5,900	5,280	---	---	7,740	8,410	9,100	6,580	6,580	6,740	8,720	5,240
IN.	7.31	6.35	---	---	7.34	9.35	12.53	7.84	8.20	9.88	9.90	6.41

02359051 CHIPOLA RIVER AT COCKRAN LANDING NEAR WEWAHITCHKA, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.75	14.31	18.69	---	16.44	17.15	21.60	18.45	15.41	15.40	17.70	17.03
2	17.77	13.99	18.82	---	16.45	17.39	22.52	18.54	15.41	15.53	17.67	17.20
3	17.82	13.84	18.76	---	16.53	17.58	23.00	18.54	15.64	15.80	17.83	17.40
4	17.82	14.09	18.56	---	16.65	17.70	23.12	18.52	16.05	15.99	18.12	17.47
5	17.75	14.57	18.25	---	16.78	17.80	23.04	18.53	16.53	16.12	18.36	17.38
6	17.63	15.01	17.92	---	16.90	17.84	22.85	18.58	17.07	16.16	18.57	17.17
7	17.44	15.25	17.66	---	17.01	17.87	22.65	18.57	17.45	16.19	18.65	16.95
8	17.19	15.38	17.43	---	17.14	18.07	22.07	18.46	17.72	16.32	18.60	16.75
9	16.94	15.53	17.26	---	17.28	18.08	21.54	18.21	17.87	16.70	18.50	16.55
10	16.72	15.73	17.14	---	17.38	17.90	21.31	17.89	17.97	17.42	18.45	16.30
11	16.42	15.87	17.08	---	17.37	17.60	21.25	17.59	18.18	18.40	18.50	16.02
12	15.97	15.94	17.03	15.46	17.34	17.27	21.05	17.30	18.39	19.00	18.60	15.80
13	15.46	15.93	17.06	15.43	17.35	17.05	20.50	17.07	18.60	19.43	18.70	15.60
14	15.09	15.76	17.12	15.85	17.49	16.89	19.90	16.89	18.77	19.73	18.74	15.36
15	14.86	15.37	---	16.51	17.60	16.75	19.68	16.69	18.90	19.81	18.77	15.10
16	14.86	14.84	---	17.19	17.68	16.90	19.35	16.51	19.00	19.72	18.78	14.73
17	14.85	14.28	---	17.57	17.65	17.14	19.07	16.29	18.95	19.40	18.72	14.58
18	14.55	13.79	---	17.77	17.52	17.43	18.83	16.03	18.83	19.20	18.62	14.35
19	14.18	13.57	---	17.85	17.31	17.58	18.64	15.80	18.59	19.11	18.51	14.21
20	14.35	13.57	---	17.83	17.09	17.61	18.40	15.60	18.29	19.06	18.50	14.10
21	15.12	13.78	---	17.75	16.88	17.60	18.12	15.51	18.10	19.24	18.47	13.90
22	15.54	14.05	---	17.58	16.70	17.64	17.84	15.48	17.79	19.62	18.32	13.66
23	15.50	14.24	---	17.35	16.55	17.67	17.75	15.57	17.44	19.80	18.14	13.44
24	15.32	14.70	---	16.98	16.53	17.72	17.62	15.64	17.09	19.79	17.95	13.42
25	15.23	15.74	---	16.56	16.47	17.93	17.52	15.70	16.74	19.60	17.84	13.45
26	15.22	16.70	---	16.26	16.43	18.08	17.65	15.70	16.36	19.38	17.74	13.38
27	15.22	17.44	---	16.05	16.64	18.20	17.84	15.67	16.05	19.09	17.63	13.36
28	15.18	17.93	---	15.96	16.90	18.46	17.96	15.63	15.80	18.73	17.45	13.35
29	15.13	18.28	---	15.98	---	18.88	18.08	15.58	15.60	18.31	17.20	13.50
30	14.91	18.50	---	16.15	---	19.41	18.26	15.50	15.43	18.00	17.08	13.65
31	14.65	---	---	16.32	---	20.35	---	15.42	---	17.81	16.96	---
MEAN	15.89	15.27	---	---	17.00	17.79	19.97	16.82	17.33	18.19	18.18	15.17
MAX	17.82	18.50	---	---	17.68	20.35	23.12	18.58	19.00	19.81	18.78	17.47
MIN	14.18	13.57	---	---	16.43	16.75	17.52	15.42	15.41	15.40	16.96	13.35

02359170 APALACHICOLA RIVER NEAR SUMATRA, FL

LOCATION.--Lat 29° 56'57", Long 85° 00'56", in SW^{1}/4 sec.14, T.6 S., R.8 W., Franklin County, Hydrologic Unit 03130011, on left bank at Brickyard Landing, 0.5 mi north of Fort Gadsden, 5.3 mi southwest of Sumatra, and 20.6 mi upstream from mouth.

DRAINAGE AREA.--19,200 mi^{2}, approximately.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD FL-98-4: 1994-97.

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

REMARKS.--No estimated daily discharges. Records good. Discharges below 15,000 ft^{3}/s are tide affected.

REVISIONS.--The maximum discharge for calendar and water year 2004 has been revised to 49,400 ft^{3}/s, Sept. 23, 2004, gage height, 8.42 ft; revised daily total and main channel only discharges for the period in September 2004 are given below. These figures supersede those published in the report for 2004.

TOTAL FLOW

Sept. 9.....16,400	Sept. 15.....24,700	Sept. 21.....41,600	Sept. 27.....40,400
Sept. 10.....19,800	Sept. 16.....30,100	Sept. 22.....46,000	Sept. 28.....38,100
Sept. 11.....21,600	Sept. 17.....30.900	Sept. 23.....49,000	Sept. 29.....36,200
Sept. 12.....22,900	Sept. 18.....31,500	Sept. 24.....48,700	Sept. 30.....34,400
Sept. 13.....23,300	Sept. 19.....33,600	Sept. 25.....46,200	
Sept. 14.....23,900	Sept. 20.....37,300	Sept. 26.....42,800	

September 2004: Mean, 27,670; Max, 49,000; Min, 10,100; In, 1.61

MAIN CHANNEL ONLY

Sept. 9.....15,300	Sept. 15.....18,400	Sept. 21.....24,100	Sept. 27.....23,700
Sept. 10.....16,400	Sept. 16.....20,600	Sept. 22.....25,300	Sept. 28.....23,100
Sept. 11.....17,100	Sept. 17.....20,900	Sept. 23.....26,000	Sept. 29.....22,500
Sept. 12.....17,700	Sept. 18.....21,100	Sept. 24.....26,000	Sept. 30.....22,000
Sept. 13.....18,100	Sept. 10.....21,800	Sept. 25.....25,300	
Sept. 14.....18,100	Sept. 20.....22,900	Sept. 26.....24,400	

September 2004: Mean, 18,700; Max, 26,000; Min, 10,100

02359170 APALACHICOLA RIVER NEAR SUMATRA, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33,000	17,600	36,600	31,400	25,000	28,200	88,100	35,600	20,400	20,200	32,800	26,600
2	32,500	16,500	38,200	30,400	25,400	28,700	130,000	35,900	20,400	20,200	31,800	26,700
3	32,700	15,100	39,500	29,200	25,600	29,800	149,000	35,700	20,800	20,900	31,300	27,400
4	33,100	15,400	39,600	28,000	25,800	31,000	162,000	35,400	22,300	21,600	32,000	28,300
5	33,200	16,900	37,900	27,100	26,100	32,100	166,000	35,800	23,800	22,200	33,600	28,600
6	32,900	18,500	35,300	26,300	26,700	32,900	165,000	36,000	25,600	22,700	35,700	28,000
7	32,100	19,800	33,000	25,400	27,300	33,500	165,000	35,900	27,600	23,400	37,700	27,000
8	30,900	20,700	31,600	24,400	28,100	34,900	156,000	35,600	29,600	23,300	38,000	26,100
9	29,600	21,200	30,400	23,200	29,000	34,800	138,000	34,700	31,100	24,500	37,200	25,200
10	28,300	22,000	30,200	22,300	29,900	34,000	124,000	33,000	32,000	30,100	35,700	24,200
11	27,400	23,100	29,400	21,900	30,200	32,700	118,000	31,100	33,500	36,400	34,500	23,200
12	26,000	24,000	28,400	21,800	30,200	30,900	114,000	29,300	34,800	39,000	33,900	22,100
13	23,700	24,200	28,000	21,700	30,100	29,300	106,000	27,900	35,800	43,200	34,600	21,200
14	21,400	23,600	28,000	23,000	30,700	28,200	91,900	26,800	37,800	50,400	35,800	20,400
15	20,200	22,200	28,000	24,000	31,300	27,400	76,300	25,900	39,700	59,400	37,300	19,300
16	19,100	20,400	28,300	25,700	31,800	28,500	61,300	25,200	41,500	69,400	38,900	18,000
17	19,000	18,000	28,300	27,500	32,100	29,100	51,200	24,400	43,000	78,400	39,600	16,700
18	18,400	15,300	28,100	29,200	31,800	28,800	44,700	23,200	43,000	86,700	39,400	15,900
19	17,100	13,300	27,800	30,500	30,900	28,900	40,600	22,300	41,000	92,400	38,300	15,200
20	16,400	13,200	27,500	31,300	29,800	29,200	37,900	21,400	38,200	96,500	37,800	14,600
21	17,800	13,300	27,200	31,500	28,700	29,500	35,600	20,600	35,600	98,400	37,700	13,400
22	20,000	14,700	27,000	31,100	27,600	30,000	33,100	20,100	33,700	93,900	37,200	14,600
23	20,700	16,200	27,200	30,300	26,700	30,600	31,800	20,100	31,600	85,800	36,100	14,100
24	20,500	17,900	26,500	28,800	26,300	30,900	30,500	20,400	29,600	78,100	34,300	13,100
25	20,000	21,000	26,400	27,100	25,800	32,600	29,600	20,800	27,600	70,200	32,500	12,900
26	19,700	23,500	28,200	25,500	25,400	34,100	29,200	21,000	25,600	62,500	31,000	12,600
27	19,600	26,500	29,100	24,300	26,500	34,800	29,700	21,000	24,000	56,100	30,000	12,600
28	19,500	29,400	29,800	23,400	28,100	35,300	30,600	20,800	22,700	49,600	29,700	12,500
29	19,500	32,000	30,700	23,200	---	36,200	31,700	20,700	21,700	42,700	29,500	12,600
30	19,400	34,500	31,400	23,800	---	39,700	33,400	20,600	20,800	37,500	28,800	12,800
31	18,700	---	31,800	24,400	---	51,400	---	20,400	---	34,500	27,400	---
MEAN	23,950	20,330	30,630	26,380	28,320	32,190	83,340	27,020	30,490	51,300	34,520	19,530
MAX	33,200	34,500	39,600	31,500	32,100	51,400	166,000	36,000	43,000	98,400	39,600	28,600
MIN	16,400	13,200	26,400	21,700	25,000	27,400	29,200	20,100	20,400	20,200	27,400	12,500
IN.	1.44	1.18	1.84	1.58	1.54	1.93	4.84	1.62	1.77	3.08	2.07	1.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2005, BY WATER YEAR (WY)

MEAN	14,930	16,070	23,310	28,790	39,050	45,070	36,530	24,030	19,890	22,430	19,540	16,390
MAX	40,720	32,420	52,700	62,310	71,920	95,690	83,340	46,350	40,380	81,670	42,360	33,700
(WY)	(1995)	(1978)	(1993)	(1998)	(1998)	(1998)	(2005)	(1991)	(2003)	(1994)	(1994)	(1994)
MIN	6,515	6,479	7,968	10,070	10,130	16,740	13,860	9,902	6,085	5,631	5,878	7,302
(WY)	(2001)	(2002)	(2002)	(2002)	(1989)	(2000)	(2004)	(2002)	(2000)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1978 - 2005	
ANNUAL MEAN	20,780		34,000		25,440	
HIGHEST ANNUAL MEAN					38,760	1998
LOWEST ANNUAL MEAN					10,750	2002
HIGHEST DAILY MEAN	49,000	Sep 23	166,000	Apr 5	178,000	Mar 24, 1990
LOWEST DAILY MEAN	10,100	Sep 6	12,500	Sep 28	4,820	Nov 17, 2001
ANNUAL SEVEN-DAY MINIMUM	10,700	May 29	12,700	Sep 24	5,240	Nov 14, 2001
MAXIMUM PEAK FLOW			167,000	Apr 5	179,000	Mar 24, 1990
MAXIMUM PEAK STAGE			13.71	Apr 7	15.36	Mar 15, 1998
INSTANTANEOUS LOW FLOW			12,500	Sep 28	4,820	Nov 17, 2001
ANNUAL RUNOFF (INCHES)	14.74		24.04		18.00	
10 PERCENT EXCEEDS	34,300		43,000		47,500	
50 PERCENT EXCEEDS	17,500		29,000		19,800	
90 PERCENT EXCEEDS	12,000		19,200		9,120	

02359170 APALACHICOLA RIVER NEAR SUMATRA, FL—Continued

MAIN CHANNEL ONLY

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21,600	15,300	22,700	21,000	18,500	19,900	32,900	22,400	16,600	16,500	21,500	19,200
2	21,400	14,800	23,100	20,700	18,700	20,000	38,200	22,500	16,600	16,500	21,200	19,300
3	21,500	14,100	23,500	20,200	18,800	20,500	40,100	22,400	16,800	16,800	21,000	19,500
4	21,600	14,300	23,500	19,800	18,900	20,900	41,200	22,300	17,400	17,100	21,200	19,900
5	21,600	14,900	23,000	19,400	19,000	21,300	41,600	22,400	18,100	17,400	21,800	20,000
6	21,500	15,700	22,300	19,100	19,300	21,500	41,500	22,500	18,800	17,600	22,400	19,800
7	21,300	16,300	21,500	18,700	19,500	21,700	41,500	22,400	19,600	17,900	23,000	19,400
8	20,900	16,700	21,100	18,300	19,800	22,200	40,600	22,400	20,400	17,900	23,100	19,000
9	20,400	16,900	20,700	17,800	20,200	22,100	39,000	22,100	21,000	18,400	22,800	18,600
10	19,900	17,300	20,600	17,400	20,500	21,900	37,600	21,600	21,200	20,500	22,400	18,200
11	19,500	17,800	20,300	17,300	20,600	21,500	36,800	20,900	21,700	22,600	22,000	17,800
12	19,000	18,200	19,900	17,200	20,600	20,900	36,400	20,300	22,100	23,400	21,900	17,300
13	18,000	18,200	19,800	17,200	20,600	20,300	35,500	19,700	22,400	24,500	22,100	17,000
14	17,000	18,000	19,800	17,700	20,800	19,800	33,700	19,300	23,000	26,400	22,400	16,600
15	16,500	17,400	19,800	18,200	21,000	19,500	31,300	19,000	23,500	28,400	22,800	16,100
16	16,000	16,600	19,900	18,900	21,200	20,000	28,800	18,600	24,100	30,200	23,300	15,500
17	16,000	15,500	19,900	19,600	21,300	20,200	26,600	18,300	24,500	31,600	23,500	14,900
18	15,700	14,300	19,800	20,200	21,200	20,100	24,900	17,800	24,500	33,000	23,500	14,500
19	15,000	13,300	19,700	20,700	20,900	20,100	23,800	17,400	23,900	33,800	23,200	14,200
20	14,700	13,200	19,600	21,000	20,400	20,200	23,000	17,000	23,100	34,300	23,000	13,900
21	15,400	13,300	19,400	21,100	20,000	20,400	22,300	16,700	22,400	34,600	23,000	13,400
22	16,400	14,000	19,400	21,000	19,600	20,500	21,600	16,500	21,800	34,000	22,800	14,000
23	16,700	14,600	19,500	20,600	19,300	20,700	21,200	16,400	21,100	32,800	22,500	13,700
24	16,600	15,400	19,200	20,100	19,100	20,900	20,700	16,600	20,400	31,600	22,000	13,100
25	16,400	16,900	19,100	19,400	18,900	21,400	20,400	16,800	19,600	30,300	21,400	12,900
26	16,300	17,900	19,800	18,800	18,700	21,900	20,200	16,900	18,800	29,000	20,900	12,600
27	16,200	19,200	20,200	18,300	19,200	22,100	20,400	16,900	18,100	27,800	20,500	12,600
28	16,200	20,300	20,500	17,900	19,800	22,200	20,800	16,800	17,600	26,200	20,400	12,500
29	16,200	21,200	20,800	17,800	---	22,500	21,200	16,700	17,200	24,400	20,300	12,600
30	16,200	22,000	21,100	18,100	---	23,600	21,700	16,700	16,800	22,900	20,100	12,800
31	15,800	---	21,200	18,300	---	26,600	---	16,600	---	22,000	19,500	---
MEAN	17,980	16,450	20,670	19,090	19,870	21,210	30,180	19,190	20,440	25,170	21,980	16,030
MAX	21,600	22,000	23,500	21,100	21,300	26,600	41,600	22,500	24,500	34,600	23,500	20,000
MIN	14,700	13,200	19,100	17,200	18,500	19,500	20,200	16,400	16,600	16,500	19,500	12,500

CAL YR 2004 MEAN 16,100 MAX 26,000 MIN 10,100
WTR YR 2005 MEAN 20,700 MAX 41,600 MIN 12,500

02359170 APALACHICOLA RIVER NEAR SUMATRA, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.89	5.04	7.25	6.72	5.99	6.37	10.72	7.15	5.42	5.40	6.86	6.18
2	6.83	4.88	7.41	6.61	6.04	6.43	12.49	7.19	5.41	5.39	6.76	6.19
3	6.85	4.69	7.53	6.48	6.07	6.54	13.15	7.16	5.47	5.48	6.71	6.28
4	6.90	4.73	7.54	6.35	6.09	6.68	13.55	7.13	5.67	5.57	6.78	6.38
5	6.91	4.93	7.38	6.24	6.13	6.79	13.68	7.17	5.86	5.65	6.95	6.41
6	6.88	5.16	7.12	6.15	6.19	6.88	13.64	7.19	6.07	5.72	7.16	6.35
7	6.79	5.33	6.88	6.05	6.27	6.93	13.63	7.18	6.30	5.80	7.36	6.23
8	6.66	5.46	6.74	5.92	6.36	7.08	13.35	7.16	6.53	5.79	7.39	6.12
9	6.52	5.52	6.61	5.78	6.46	7.08	12.78	7.06	6.69	5.94	7.31	6.02
10	6.38	5.63	6.59	5.67	6.56	6.99	12.30	6.89	6.78	6.57	7.17	5.90
11	6.28	5.77	6.50	5.61	6.59	6.85	12.05	6.68	6.94	7.23	7.04	5.77
12	6.11	5.88	6.39	5.59	6.58	6.67	11.89	6.49	7.07	7.49	6.98	5.64
13	5.84	5.89	6.35	5.59	6.58	6.49	11.59	6.33	7.18	7.88	7.05	5.53
14	5.55	5.83	6.34	5.76	6.64	6.36	10.98	6.21	7.37	8.51	7.17	5.41
15	5.39	5.66	6.35	5.88	6.71	6.28	10.16	6.11	7.55	9.20	7.32	5.27
16	5.24	5.41	6.37	6.08	6.76	6.40	9.31	6.02	7.72	9.77	7.48	5.08
17	5.23	5.09	6.38	6.29	6.79	6.46	8.57	5.92	7.86	10.28	7.54	4.90
18	5.15	4.73	6.35	6.48	6.76	6.43	8.01	5.78	7.85	10.73	7.52	4.79
19	4.95	4.47	6.32	6.62	6.67	6.45	7.63	5.66	7.68	11.01	7.42	4.71
20	4.85	4.43	6.28	6.71	6.54	6.48	7.38	5.55	7.40	11.20	7.37	4.63
21	5.06	4.48	6.25	6.73	6.42	6.52	7.15	5.45	7.16	11.28	7.36	4.44
22	5.36	4.65	6.23	6.69	6.30	6.56	6.89	5.38	6.96	11.08	7.31	4.64
23	5.46	4.83	6.25	6.60	6.20	6.63	6.76	5.37	6.73	10.68	7.20	4.57
24	5.43	5.07	6.17	6.44	6.15	6.66	6.62	5.42	6.52	10.26	7.02	4.41
25	5.36	5.50	6.16	6.24	6.09	6.85	6.52	5.47	6.29	9.81	6.83	4.34
26	5.33	5.81	6.37	6.06	6.04	7.00	6.48	5.50	6.07	9.40	6.67	4.22
27	5.31	6.17	6.46	5.92	6.17	7.07	6.54	5.50	5.87	8.97	6.57	4.16
28	5.30	6.50	6.55	5.81	6.35	7.12	6.63	5.48	5.72	8.43	6.53	4.16
29	5.30	6.78	6.64	5.77	---	7.21	6.75	5.45	5.59	7.82	6.51	4.20
30	5.29	7.04	6.72	5.85	---	7.55	6.93	5.44	5.47	7.34	6.44	4.24
31	5.19	---	6.76	5.92	---	8.57	---	5.42	---	7.04	6.27	---
TOTAL	180.59	161.36	205.24	190.61	178.50	210.38	294.13	191.91	197.20	252.72	218.05	157.17
MEAN	5.83	5.38	6.62	6.15	6.38	6.79	9.80	6.19	6.57	8.15	7.03	5.24
MAX	6.91	7.04	7.54	6.73	6.79	8.57	13.68	7.19	7.86	11.28	7.54	6.41
MIN	4.85	4.43	6.16	5.59	5.99	6.28	6.48	5.37	5.41	5.39	6.27	4.16

02359170 APALACHICOLA RIVER NEAR SUMATRA, FL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1987 to current year.

REMARKS.--Discharge for sediment samples represent main channel only.

MAIN CHANNEL ONLY

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Location in X-sect. looking dwnstrm ft from l bank (00009)
OCT						
28...	1332	5.28	16,300	81	16	108
28...	1334	5.28	16,300	76	24	108
28...	1338	5.28	16,300	56	25	198
28...	1340	5.28	16,300	62	24	198
28...	1343	5.28	16,300	65	22	281
28...	1345	5.28	16,300	57	27	281
28...	1348	5.28	16,300	78	15	365
28...	1350	5.28	16,300	68	20	365
28...	1354	5.28	16,300	84	14	451
28...	1356	5.28	16,300	94	13	451
28...	1359	5.28	16,300	100	14	549
28...	1401	5.28	16,300	98	15	549
JUN						
09...	1656	6.72	21,200	90	24	115
09...	1658	6.72	21,200	80	27	115
09...	1702	6.72	21,200	55	46	172
09...	1704	6.72	21,200	73	32	172
09...	1710	6.72	21,200	51	51	235
09...	1712	6.72	21,200	59	45	235
09...	1717	6.72	21,200	60	39	305
09...	1719	6.72	21,200	69	35	305
09...	1723	6.72	21,200	71	36	375
09...	1725	6.72	21,200	77	32	375
09...	1731	6.72	21,200	81	26	460
09...	1733	6.72	21,200	88	24	460
SEP						
26...	1431	4.25	12,200	100	20	120
26...	1435	4.25	12,200	99	21	120
26...	1439	4.25	12,200	97	22	185
26...	1443	4.25	12,200	87	26	185
26...	1447	4.25	12,200	93	21	260
26...	1451	4.25	12,200	87	26	260
26...	1455	4.25	12,200	94	24	325
26...	1459	4.25	12,200	94	25	325
26...	1502	4.25	12,200	90	26	400
26...	1505	4.25	12,200	97	24	400
26...	1508	4.24	12,200	97	20	475
26...	1511	4.24	12,200	100	19	475

02359315 MARTIN BAYOU AT US 98 AT SPRINGFIELD, FL

LOCATION.--Lat 30° 08'06", long 85° 36'56", in SE 1/ 4 sec. 14, T. 4 S., R. 14 W., Bay County, Hydrologic Unit 03140101, at upstream side of concrete weir control structure above U.S. Highway 98, at boundary of Parker and Springfield communities, 0.9 mi west of State Road 22-A, and 1.2 mi south of State Highway 22.

DRAINAGE AREA.--3.96 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of the gage is not determined.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	5.6	5.2	8.3	9.2	17	88	108	17	5.7	26	6.6
2	13	5.6	4.2	7.7	14	16	123	71	17	5.2	21	5.3
3	13	5.5	4.1	7.0	17	16	78	51	14	4.5	18	4.8
4	12	6.2	4.0	6.6	16	14	62	40	13	4.5	29	4.7
5	12	5.5	4.1	6.4	13	13	49	55	12	4.5	39	4.4
6	12	4.8	4.1	6.5	12	12	39	53	12	5.9	42	4.0
7	11	4.8	4.7	6.4	11	14	108	41	11	6.8	45	4.0
8	9.8	5.2	5.6	6.3	9.7	39	89	34	11	5.2	36	4.2
9	9.8	5.3	5.4	6.2	9.2	29	61	29	12	6.5	29	4.3
10	11	4.9	5.1	6.1	8.4	22	48	27	15	139	24	4.4
11	15	5.9	4.2	6.0	7.0	19	41	24	54	106	21	4.3
12	14	8.2	4.0	5.9	6.7	16	43	22	37	31	17	4.2
13	12	7.5	4.0	18	6.7	15	43	20	19	16	15	4.3
14	11	6.6	4.1	42	14	15	36	19	13	11	14	4.2
15	14	5.5	4.1	27	15	15	30	17	9.6	9.2	15	4.4
16	9.1	5.1	4.0	19	13	45	26	17	7.8	7.9	14	4.4
17	7.4	4.9	4.0	15	12	49	22	22	6.5	7.8	14	4.5
18	6.8	4.8	4.0	13	9.5	42	21	19	6.0	9.1	13	4.7
19	6.5	5.1	4.1	11	8.0	33	20	18	5.5	7.9	12	5.0
20	6.7	6.8	4.1	9.8	7.7	28	19	16	4.8	29	12	4.9
21	6.5	7.3	4.1	8.9	7.6	24	19	15	4.7	54	16	5.1
22	6.1	6.7	5.8	8.2	7.7	22	18	14	4.6	34	18	5.9
23	5.7	9.3	27	7.0	9.0	35	31	13	4.5	25	16	7.9
24	5.5	14	17	5.8	12	31	28	12	4.5	21	15	6.9
25	9.8	13	15	5.6	12	68	24	11	4.5	18	16	5.8
26	12	7.5	24	5.8	10	87	73	10	4.5	16	13	5.3
27	8.9	7.0	19	5.9	15	64	81	9.6	4.5	12	11	6.1
28	7.3	7.4	14	6.3	18	48	52	9.3	4.7	10	14	5.9
29	6.7	6.2	12	7.2	---	34	39	9.3	5.0	9.3	21	5.6
30	6.4	5.5	10	7.9	---	28	68	12	5.0	17	19	5.4
31	6.0	---	9.2	7.7	---	29	---	12	---	26	10	---
MEAN	9.68	6.59	7.88	10.0	11.1	30.3	49.3	26.8	11.5	21.5	20.2	5.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	20.8	17.6	15.2	15.7	16.8	25.5	22.7	13.0	13.4	18.4	27.4	20.8

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	13.8		17.5		19.0	
HIGHEST DAILY MEAN	195	Sep 16	139	Jul 10	480	Oct 1, 1998
LOWEST DAILY MEAN	3.6	May 25	4.0	Dec 4	1.4	Jul 22, 2000
ANNUAL SEVEN-DAY MINIMUM	3.6	May 24	4.0	Dec 12	2.1	Jul 17, 2000
MAXIMUM PEAK FLOW			461	Jul 10	480	Oct 1, 1998
MAXIMUM PEAK STAGE			11.85	Jul 10	11.85	Jul 10, 2005
INSTANTANEOUS LOW FLOW			3.1	Sep 8	0.90	Jul 21, 2000
10 PERCENT EXCEEDS	26		40		39	
50 PERCENT EXCEEDS	10		11		12	
90 PERCENT EXCEEDS	4.2		4.5		4.7	

02359500 ECONFINA CREEK NEAR BENNETT, FL.

LOCATION.--Lat 30° 23'04", long 85° 33'24", in SE$^{1}/_{4}$ sec. 20, T. 1 S., R. 13 W., Bay County, Hydrologic Unit 03140101, near center of span on downstream side of bridge on State Highway 388, 0.5 mi downstream from Old Mill Branch, 1.6 mi southwest of Bennett, and 11 mi upstream from mouth.

DRAINAGE AREA.--122 mi^2.

PERIOD OF RECORD.--October 1935 to September 1994. Monthly discharge only for October and November 1936, published in WSP1304. October 1998 to current year.

REVISED RECORDS.--WSP 872: 1937. WSP 1906: Drainage area. WRD FL-80-4: 1979. WRD FL-93-4: 1948 (M), 1989 (M).

GAGE.--Water-stage recorder. Datum of gage is 1.03 ft above National Geodetic Vertical Datum of 1929. Nov. 11, 1935 to Jan. 29, 1962, nonrecording gage and Jan. 30, 1962 to June 16, 1966, water-stage recorder at site 150 ft downstream at present datum. June 17, 1966 to Sept. 28, 1966, nonrecording gage and Oct. 1, 1966 to Sept. 30, 1994, water-stage recorder at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow includes large ground-water inflow.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since September 1926, 15.0 ft present datum, from floodmark, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	537	483	536	506	498	552	1,150	938	596	560	588	664
2	530	481	528	500	529	492	1,830	1,010	731	578	710	615
3	522	478	514	499	596	470	1,600	791	754	577	778	571
4	516	489	504	493	588	469	981	673	635	546	669	548
5	509	481	498	479	526	466	788	644	595	537	626	535
6	504	470	494	475	491	457	727	646	590	536	620	526
7	501	467	500	472	476	465	919	642	576	583	686	519
8	499	465	528	478	467	614	1,150	619	589	551	728	515
9	496	460	537	492	461	557	1,020	602	638	521	738	512
10	502	455	533	481	457	498	807	593	639	656	704	508
11	519	458	511	469	450	474	733	584	751	890	668	503
12	522	479	491	462	446	464	725	574	864	950	658	499
13	511	519	482	568	444	458	773	568	834	741	638	497
14	498	503	474	888	488	456	756	564	711	622	605	495
15	537	473	469	935	515	455	700	560	645	585	608	493
16	576	463	468	719	486	659	669	557	608	575	610	492
17	528	457	467	576	463	852	650	569	576	588	573	491
18	502	452	467	539	450	822	638	575	558	601	554	490
19	494	451	464	522	443	606	628	591	547	584	544	487
20	566	458	461	512	449	543	619	664	534	558	542	484
21	739	472	461	503	451	520	611	639	525	565	609	481
22	684	467	468	496	453	516	607	580	520	563	600	489
23	569	595	671	487	458	605	676	559	514	544	588	498
24	538	754	772	481	484	648	708	549	509	547	717	492
25	529	844	682	477	498	566	658	539	504	535	659	500
26	519	883	686	475	478	537	662	529	500	521	579	503
27	509	663	716	470	498	665	692	524	500	518	549	509
28	501	633	623	467	580	933	653	520	504	519	537	520
29	495	617	553	476	---	750	614	516	530	514	547	531
30	491	559	529	519	---	598	678	538	541	516	613	513
31	487	---	514	527	---	602	---	526	---	564	678	---
MEAN	530	531	536	530	487	573	814	612	604	589	630	516
MAX	739	883	772	935	596	933	1,830	1,010	864	950	778	664
MIN	487	451	461	462	443	455	607	516	500	514	537	481
IN.	5.01	4.86	5.06	5.01	4.15	5.42	7.45	5.79	5.52	5.56	5.95	4.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2005, BY WATER YEAR (WY)

MEAN	508	502	511	533	544	581	564	506	517	557	575	558
MAX	769	890	818	780	838	1,045	1,176	789	958	1,005	962	824
(WY)	(1965)	(1948)	(1948)	(1993)	(1986)	(1991)	(1948)	(1946)	(1989)	(1994)	(1939)	(1937)
MIN	301	323	317	326	306	358	332	272	334	337	339	344
(WY)	(2001)	(1956)	(1956)	(2001)	(2001)	(1956)	(1956)	(2001)	(2000)	(2000)	(2000)	(1955)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1936 - 2005	
ANNUAL MEAN	534		580		538	
HIGHEST ANNUAL MEAN					758	1948
LOWEST ANNUAL MEAN					363	2001
HIGHEST DAILY MEAN	1,330	Sep 18	1,830	Apr 2	4,670	Mar 3, 1991
LOWEST DAILY MEAN	437	Apr 29	443	Feb 19	252	May 28, 2001
ANNUAL SEVEN-DAY MINIMUM	443	Apr 23	452	Feb 17	257	May 24, 2001
MAXIMUM PEAK FLOW			1,920	Apr 2	5,850	Mar 3, 1991
MAXIMUM PEAK STAGE			9.89	Apr 2	14.37	Mar 3, 1991
INSTANTANEOUS LOW FLOW			441	Feb 20	250	May 28, 2001
ANNUAL RUNOFF (INCHES)	59.63		64.51		59.91	
10 PERCENT EXCEEDS	660		729		704	
50 PERCENT EXCEEDS	506		537		508	
90 PERCENT EXCEEDS	463		467		393	

02365200 CHOCTAWHATCHEE RIVER NEAR PITTMAN, FL

LOCATION.--Lat 30° 56'59", long 85° 50'35", in NW1/4 sec. 9, T. 6 N., R. 16 W., Holmes County, Hydrologic Unit 03140203, on downstream side of bridge on State Highway 2, 1.5 mi west of Pittman, 3.8 mi downstream from Florida-Alabama State line, and 84 mi upstream from mouth.

DRAINAGE AREA.--3,209 mi^2.

PERIOD OF RECORD.--May 1957, April 1960 and October 1975 to June 1976 (gage height and discharge measurements only), July 1976 to September 1981, October 1996 to September 1998 (gage height and discharge measurements only), October 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 51.83 ft above National Geodetic Vertical Datum of 1929 (levels by Northwest Florida Water Management District). Apr. 8, 1957 to Sept. 15, 1976, nonrecording gage at same site and datum, July 1, 1976 to Sept. 30, 1981, water stage recorder, Oct. 1, 1996 to Sept. 30, 1998, nonrecording gage.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,130	2,180	6,990	3,850	4,450	4,650	37,600	12,100	2,800	3,040	4,460	7,190
2	2,020	2,080	6,150	3,650	4,480	4,290	41,400	15,700	5,850	3,200	4,640	8,130
3	1,930	2,100	5,490	3,470	5,480	3,840	47,700	17,000	7,480	3,140	4,530	7,750
4	1,830	2,470	4,700	3,350	6,410	3,710	46,500	14,200	e7,000	4,110	4,780	5,810
5	1,760	3,360	4,170	3,240	6,320	3,550	38,800	10,600	e6,600	4,380	6,110	4,320
6	1,700	4,240	4,070	3,140	5,540	3,260	29,900	7,970	e6,140	6,150	9,600	3,510
7	1,650	3,540	5,370	3,170	4,830	2,980	24,700	6,400	4,460	6,030	e15,400	3,010
8	1,590	2,880	7,130	3,420	4,320	3,090	22,700	5,440	4,140	5,530	e17,900	2,640
9	1,560	2,450	7,390	5,110	4,010	3,250	24,600	4,850	4,490	4,870	e12,000	2,390
10	1,570	2,140	6,990	5,880	4,870	3,030	22,700	4,440	5,050	4,390	e9,800	2,230
11	1,640	2,000	7,220	4,870	7,510	2,770	19,800	4,110	5,690	7,750	e9,300	2,070
12	1,890	2,750	6,580	4,080	7,400	2,580	17,300	3,800	7,400	11,000	e8,600	1,840
13	2,080	3,650	5,700	3,900	6,050	2,460	15,500	3,500	8,850	12,900	e7,800	1,830
14	1,990	3,370	4,810	7,200	5,460	2,390	13,900	3,260	8,990	12,100	e7,500	1,860
15	1,830	2,870	4,100	9,940	5,920	2,320	12,100	3,150	7,620	11,200	e7,450	1,650
16	1,700	2,520	3,640	11,200	5,990	3,000	10,200	3,260	6,180	10,300	e7,650	1,650
17	1,630	2,230	3,350	9,870	5,140	4,960	8,660	3,330	4,620	10,100	8,340	1,640
18	1,540	2,040	3,210	7,770	4,490	5,600	7,590	3,160	3,510	10,100	9,740	1,540
19	1,580	1,920	3,090	6,310	3,980	4,650	6,780	2,840	2,990	8,570	8,390	1,560
20	4,780	1,950	2,970	5,270	3,570	3,930	6,190	2,650	2,830	6,680	6,590	1,500
21	8,420	3,060	2,840	4,590	3,330	3,440	5,780	e2,560	2,440	5,440	5,860	1,450
22	8,260	4,770	2,770	4,090	3,260	3,590	5,870	e2,940	2,070	4,770	5,410	1,450
23	6,070	4,240	5,800	3,780	3,200	6,150	7,130	e2,810	2,090	4,280	5,300	1,450
24	4,420	6,540	9,540	3,560	3,310	7,260	8,050	e2,570	1,800	4,270	5,580	1,720
25	4,800	10,600	10,400	3,310	3,450	6,440	8,010	e2,350	1,720	3,970	4,460	1,880
26	4,800	11,600	9,310	3,210	3,430	6,050	7,740	2,250	1,660	3,330	4,200	2,080
27	4,110	11,900	7,640	3,170	3,400	11,000	8,170	1,990	1,620	3,040	4,330	2,650
28	3,470	10,800	6,500	3,070	4,040	13,500	8,330	1,870	1,610	2,630	3,750	3,420
29	2,880	9,900	5,350	3,100	---	21,300	7,560	1,820	1,940	2,600	3,360	3,140
30	2,510	8,640	4,590	3,540	---	31,600	7,320	1,770	2,500	3,270	4,100	2,840
31	2,290	---	4,130	4,440	---	35,700	---	1,780	---	4,530	6,040	---
MEAN	2,917	4,493	5,548	4,792	4,773	6,979	17,620	5,047	4,405	6,054	7,193	2,873
MAX	8,420	11,900	10,400	11,200	7,510	35,700	47,700	17,000	8,990	12,900	17,900	8,130
MIN	1,540	1,920	2,770	3,070	3,200	2,320	5,780	1,770	1,610	2,600	3,360	1,450
IN.	1.05	1.56	1.99	1.72	1.55	2.51	6.13	1.81	1.53	2.18	2.58	1.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)

MEAN	2,642	2,953	3,951	5,282	6,062	9,078	7,153	4,029	3,505	3,355	3,014	2,382
MAX	9,492	5,727	10,700	15,520	12,730	18,540	17,620	12,040	7,012	9,329	8,390	5,555
(WY)	(1999)	(1978)	(1977)	(1978)	(1979)	(1980)	(2005)	(1978)	(2003)	(2003)	(2003)	(2004)
MIN	547	1,290	1,685	1,971	2,625	3,024	1,727	622	534	432	568	747
(WY)	(2001)	(2002)	(2002)	(1981)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1976 - 2005	
ANNUAL MEAN	4,288		6,054		4,444	
HIGHEST ANNUAL MEAN					7,220	1978
LOWEST ANNUAL MEAN					1,480	2000
HIGHEST DAILY MEAN	21,400	Sep 19	47,700	Apr 3	64,000	Jan 28, 1978
LOWEST DAILY MEAN	1,100	Aug 9	1,450	Sep 21	327	Jul 21, 2000
ANNUAL SEVEN-DAY MINIMUM	1,180	Aug 5	1,510	Sep 17	355	Jul 17, 2000
MAXIMUM PEAK FLOW			49,100	Apr 3	64,700	Jan 28, 1978
MAXIMUM PEAK STAGE			27.02	Apr 3	28.56	Jan 28, 1978
INSTANTANEOUS LOW FLOW			1,360	Sep 23	308	Jul 21, 2000
ANNUAL RUNOFF (INCHES)	18.19		25.62		18.82	
10 PERCENT EXCEEDS	9,550		10,600		9,850	
50 PERCENT EXCEEDS	2,940		4,320		2,770	
90 PERCENT EXCEEDS	1,650		1,890		1,040	

e Estimated

02365470 WRIGHTS CREEK AT SH 177A NEAR BONIFAY, FL

LOCATION.--Lat 30° 51'25", long 85° 45'44", in NW1/4 sec. 8, T. 5 N., R. 17 S., Holmes County, Hydrologic Unit 03140203, on downstream side of bridge on State Road 177A, 0.4 mi above Caney Branch, 7.3 mi upstream of mouth, and 7.6 mi northwest of Bonifay.

DRAINAGE AREA.--148 mi^2.

PERIOD OF RECORD.--March 1983 to September 1987, discharge measurements and annual maximum discharge, October 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 42.94 ft above National Geodetic Vertical Datum of 1929. Mar. 23, 1983 to Sept. 30, 1987, nonrecording gage and crest-stage gage at same site and datum.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	96	390	247	168	226	1,720	1,470	127	85	111	338
2	77	92	341	230	188	191	4,030	1,560	156	73	149	327
3	74	e90	308	218	257	156	3,520	1,230	146	67	152	262
4	71	e90	270	204	287	146	e1,610	745	116	65	153	167
5	69	e100	240	195	267	142	1,090	493	109	88	220	126
6	67	e95	225	187	225	132	727	390	105	78	511	105
7	65	e87	226	182	196	124	1,710	331	267	76	1,040	90
8	63	e82	285	184	182	140	2,100	287	257	74	749	78
9	62	e77	389	221	168	162	1,710	251	144	68	601	71
10	62	75	553	243	162	153	1,100	226	110	110	405	66
11	65	77	591	229	166	133	723	200	151	421	272	62
12	69	100	518	201	166	120	586	178	334	569	207	60
13	69	186	363	210	148	114	626	158	293	436	171	58
14	68	201	293	491	147	109	593	141	366	309	145	56
15	71	170	252	675	160	110	509	130	292	239	132	55
16	68	134	224	648	161	268	410	124	182	273	155	53
17	66	115	206	515	162	569	346	116	135	504	223	53
18	63	100	196	359	142	494	306	107	109	726	193	51
19	64	92	188	294	128	364	272	100	97	518	128	50
20	167	95	177	265	122	272	246	95	85	371	121	49
21	320	126	168	239	120	231	224	91	77	278	145	48
22	337	161	164	223	117	222	235	86	71	220	145	48
23	318	182	272	209	116	326	279	83	67	183	151	47
24	213	290	445	191	120	377	290	79	65	208	153	48
25	182	642	483	179	128	406	306	75	65	170	133	52
26	171	722	511	176	128	343	377	71	63	134	108	60
27	157	751	480	169	135	730	915	68	62	112	100	62
28	134	647	421	161	200	1,100	946	66	64	98	96	64
29	119	524	356	159	---	1,150	707	65	105	87	86	65
30	109	459	299	168	---	783	591	64	104	80	124	60
31	101	---	268	171	---	547	---	76	---	79	240	---
MEAN	117	222	326	259	167	334	960	295	144	219	236	91.0
MAX	337	751	591	675	287	1,150	4,030	1,560	366	726	1,040	338
MIN	62	75	164	159	116	109	224	64	62	65	86	47
IN.	0.91	1.67	2.54	2.02	1.17	2.60	7.24	2.30	1.09	1.71	1.84	0.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	98.0	169	194	190	227	371	350	111	177	210	148	97.8
MAX	249	516	346	351	636	724	960	295	293	477	323	178
(WY)	(1999)	(2003)	(2003)	(1999)	(2004)	(2001)	(2005)	(2005)	(2003)	(2003)	(2001)	(2003)
MIN	29.6	38.0	44.1	60.5	79.5	182	67.9	28.5	31.6	29.8	21.5	38.4
(WY)	(2001)	(2000)	(2000)	(2000)	(2002)	(2004)	(1999)	(2000)	(2000)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	217		281		195	
HIGHEST ANNUAL MEAN					341	2003
LOWEST ANNUAL MEAN					57.9	2000
HIGHEST DAILY MEAN	1,670	Feb 15	4,030	Apr 2	4,030	Apr 2, 2005
LOWEST DAILY MEAN	46	Sep 5	47	Sep 23	16	Aug 18, 2000
ANNUAL SEVEN-DAY MINIMUM	49	Sep 1	49	Sep 18	17	Aug 15, 2000
MAXIMUM PEAK FLOW			4,390	Apr 2	7,200	Mar 6, 1984
MAXIMUM PEAK STAGE			12.35	Apr 2	13.73	Mar 6, 1984
INSTANTANEOUS LOW FLOW			46	Sep 23	15	Aug 21, 2000
ANNUAL RUNOFF (INCHES)	19.99		25.78		17.90	
10 PERCENT EXCEEDS	505		588		437	
50 PERCENT EXCEEDS	128		168		107	
90 PERCENT EXCEEDS	59		66		37	

e Estimated

02365500 CHOCTAWHATCHEE RIVER AT CARYVILLE, FL

LOCATION.--Lat 30° 46'32", long 85° 49'40", in NW1/4 sec.10, T.4 N., R.16 W., Holmes County, Hydrologic Unit 03140203, near right bank on downstream side of bridge on U.S. Highway 90, 300 ft downstream from Louisville and Nashville Railroad bridge, 0.8 mi west of Caryville, 1.8 mi downstream from Wrights Creek, and 64 mi upstream from mouth.

DRAINAGE AREA.--3,499 mi^2.

PERIOD OF RECORD.--August 1929 to September 1994, October 1994 to September 1996(gage height only), October 1996 to September 1997, October 1997 to September 1998(gage height only), October 2000 to current year. Gage-height records collected at same site from 1928 to August 1929 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 39.02 ft above National Geodetic Vertical Datum of 1929. Aug. 17 to Oct. 11, 1929, nonrecording gage at same site and datum; Oct. 12, 1929 to Sept. 11, 1951, water-stage recorder at same site and datum; Sept. 12, 1951 to Aug.11, 1976, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1850 (from information furnished by U.S. Army Corps of Engineers, Mobile District) 27.1 ft Mar. 17, 1929, from National Weather Service records and floodmarks; discharge, 206,000 ft^3/s from rating curve extended above 160,000 ft^3/s on basis of slope-area determination of peak flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,580	2,890	9,180	4,800	4,690	4,540	47,200	8,810	2,290	2,850	4,400	5,680
2	2,460	2,740	7,520	4,530	4,760	4,800	52,700	13,800	3,630	3,180	4,570	6,430
3	2,370	2,660	6,540	4,320	5,010	4,590	54,400	19,200	5,100	3,280	4,730	7,060
4	2,220	2,780	5,810	4,170	5,540	4,320	56,200	21,200	5,830	3,480	4,670	6,930
5	2,110	3,230	5,250	4,040	5,980	4,160	53,300	17,800	6,030	3,960	4,960	5,740
6	2,020	3,920	4,830	3,930	6,000	4,000	46,600	12,600	6,090	4,440	5,860	4,610
7	1,940	4,230	4,840	3,900	5,620	3,750	41,700	8,400	5,530	5,180	8,300	3,820
8	1,880	3,840	5,540	3,930	5,130	3,620	37,300	6,470	4,760	5,280	14,100	3,300
9	1,810	3,340	6,490	4,370	4,750	3,730	34,900	5,520	4,530	5,080	17,900	2,940
10	1,790	2,930	7,060	5,230	4,560	3,750	34,600	4,970	4,490	4,800	15,500	2,680
11	1,850	2,680	7,100	5,560	5,220	3,530	31,800	4,600	4,940	5,090	11,200	2,490
12	1,970	2,890	7,120	5,140	6,280	3,310	27,200	4,290	5,480	6,680	9,740	2,300
13	2,220	3,710	6,720	4,710	6,550	3,150	23,000	4,010	6,370	9,120	9,370	2,100
14	2,330	4,100	5,980	5,160	5,990	3,040	19,800	3,730	7,310	12,200	8,270	2,110
15	2,210	3,920	5,340	6,790	5,660	2,930	16,900	3,570	7,710	12,900	7,460	2,050
16	2,030	3,520	4,770	8,820	5,730	3,360	13,900	3,480	7,040	12,100	6,700	1,890
17	1,920	3,140	4,340	10,700	5,700	4,310	10,800	3,530	5,890	11,000	6,270	1,880
18	1,820	2,850	4,090	10,300	5,280	5,330	8,440	3,520	4,750	10,700	7,080	1,830
19	1,770	2,640	3,930	8,160	4,830	5,540	7,190	3,330	3,810	10,400	7,970	1,770
20	2,510	2,530	3,820	6,670	4,400	5,050	6,350	3,080	3,330	8,800	7,630	1,750
21	4,940	2,770	3,660	5,710	4,080	4,490	5,810	2,920	3,060	7,020	6,620	1,690
22	6,580	3,940	3,540	5,090	3,910	4,100	5,530	2,930	2,620	5,720	5,930	1,640
23	7,160	4,680	3,990	4,690	3,830	4,620	5,640	3,070	2,400	5,070	5,440	1,620
24	6,190	4,910	5,870	4,430	3,810	5,750	6,170	2,900	2,250	4,790	5,360	1,740
25	5,200	6,480	7,870	4,170	3,880	6,470	6,800	2,770	2,000	4,600	5,210	1,940
26	5,090	9,230	9,680	3,980	3,920	6,250	7,230	2,590	1,930	4,200	4,630	2,160
27	4,920	11,800	9,540	3,900	3,930	6,780	7,570	2,400	1,850	3,750	4,440	2,420
28	4,500	13,200	8,040	3,780	4,090	9,950	8,180	2,190	1,800	3,370	4,280	3,040
29	3,960	12,400	6,890	3,750	---	15,000	8,140	2,090	1,950	3,110	3,910	3,410
30	3,460	10,900	5,870	3,850	---	25,800	7,700	2,040	2,330	3,090	3,860	3,230
31	3,110	---	5,230	4,240	---	38,700	---	1,990	---	3,870	4,630	---
MEAN	3,126	4,828	6,015	5,252	4,969	6,733	23,100	5,929	4,237	6,100	7,129	3,075
MAX	7,160	13,200	9,680	10,700	6,550	38,700	56,200	21,200	7,710	12,900	17,900	7,060
MIN	1,770	2,530	3,540	3,750	3,810	2,930	5,530	1,990	1,800	2,850	3,860	1,620
IN.	1.03	1.54	1.98	1.73	1.48	2.22	7.37	1.95	1.35	2.01	2.35	0.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2005, BY WATER YEAR (WY)

MEAN	3,035	3,406	5,261	7,240	8,300	9,983	8,664	4,782	3,818	4,291	3,952	3,152
MAX	17,160	11,790	24,150	23,510	16,190	29,190	23,100	15,700	12,450	42,530	17,120	16,650
(WY)	(1999)	(1990)	(1954)	(1936)	(1982)	(1998)	(2005)	(1946)	(1989)	(1994)	(1939)	(1937)
MIN	607	992	1,395	1,925	2,846	1,777	2,278	1,410	1,107	1,187	856	905
(WY)	(2001)	(1932)	(1956)	(1956)	(2001)	(1955)	(2004)	(2002)	(1988)	(1986)	(2000)	(1954)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1930 - 2005	
ANNUAL MEAN	4,733		6,699		5,448	
HIGHEST ANNUAL MEAN					9,163	1946
LOWEST ANNUAL MEAN					2,090	2002
HIGHEST DAILY MEAN	28,700	Sep 20	56,200	Apr 4	162,000	Jul 9, 1994
LOWEST DAILY MEAN	1,220	Aug 9	1,620	Sep 23	503	Oct 30, 2000
ANNUAL SEVEN-DAY MINIMUM	1,360	Aug 6	1,720	Sep 18	505	Oct 26, 2000
MAXIMUM PEAK FLOW			56,800	Apr 4	164,000	Jul 9, 1994
MAXIMUM PEAK STAGE			15.57	Apr 4	23.85	Jul 9, 1994
INSTANTANEOUS LOW FLOW			1,580	Sep 23	500	Oct 30, 2000
ANNUAL RUNOFF (INCHES)	18.42		26.00		21.16	
10 PERCENT EXCEEDS	9,410		10,800		11,300	
50 PERCENT EXCEEDS	3,410		4,680		3,610	
90 PERCENT EXCEEDS	1,840		2,220		1,430	

02365769 BRUCE CREEK AT SH 81 NEAR REDBAY, FL

LOCATION.--Lat 30° 37'28", long 85° 56'33", in NE 1/4 sec. 33, T. 3 N., R. 17 W., Walton County, Hydrologic Unit 03140203, on downstream side of bridge on State Highway 81, 0.6 mi north of Bruce Creek School, 1.4 mi south of Knox Hill, and 2.4 mi north of Redbay.

DRAINAGE AREA.--82.4 mi^2.

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

REVISED RECORDS.--WRD FL-01-4:2000.

GAGE.--Water-stage recorder. Datum of gage is not determined.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	88	229	144	129	206	3,610	1,610	e1,500	e100	e280	179
2	85	82	221	134	168	141	3,690	1,120	e1,100	e100	e650	156
3	80	88	196	125	321	123	1,760	523	e610	e90	e1,020	120
4	76	141	177	118	386	130	1,410	318	e275	e90	e1,400	110
5	72	202	165	112	230	125	1,320	254	e260	e90	e1,700	106
6	69	168	160	108	174	110	1,140	229	e240	e100	e1,250	96
7	66	112	164	106	155	100	4,250	207	e260	e120	e950	81
8	64	97	194	126	144	130	2,090	183	e275	e100	e1,250	64
9	63	89	199	284	135	155	1,070	163	e570	e500	e1,550	51
10	65	78	311	359	129	114	743	149	e260	e1,050	e1,120	43
11	90	73	272	189	119	98	608	138	e880	e1,550	e600	39
12	122	276	188	155	112	88	558	127	e890	e1,000	e670	37
13	156	789	167	158	115	80	662	116	e625	e280	e510	35
14	134	452	156	487	139	77	593	107	e400	e275	e420	33
15	120	199	145	631	194	74	380	100	e350	e975	e390	32
16	146	157	135	319	164	499	281	97	e300	e800	e370	31
17	102	137	127	202	138	1,640	230	103	e250	e500	e360	31
18	79	118	121	186	124	782	210	90	e220	e250	e400	30
19	80	107	113	179	113	361	193	89	e200	e450	e670	29
20	379	126	106	170	105	222	180	131	e190	e600	e350	28
21	1,010	151	99	159	99	193	169	e800	e175	e1,420	e340	28
22	455	159	98	146	94	176	183	e320	e165	e500	e330	28
23	203	185	221	136	91	204	322	e275	e160	e220	e400	32
24	170	575	400	124	124	233	491	e260	e150	e200	e350	44
25	167	1,000	236	115	159	180	272	e240	e130	e180	e310	44
26	179	813	223	111	129	192	293	e220	e120	e170	e300	41
27	171	394	292	107	121	1,130	793	e210	e110	e150	e220	59
28	140	493	215	102	212	1,420	646	e200	e105	e120	e200	71
29	123	547	183	105	---	687	293	e190	e100	e110	e150	58
30	111	318	167	156	---	378	322	e200	e100	e350	e180	48
31	98	---	154	157	---	406	---	e1,300	---	e510	e180	---
MEAN	160	274	188	184	154	337	959	325	366	418	609	59.5
MAX	1,010	1,000	400	631	386	1,640	4,250	1,610	1,500	1,550	1,700	179
MIN	63	73	98	102	91	74	169	89	100	90	150	28
IN.	2.24	3.71	2.63	2.58	1.95	4.72	12.98	4.55	4.95	5.85	8.52	0.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	149	175	128	128	151	236	277	81.5	201	218	247	148
MAX	504	592	198	231	392	382	959	325	526	540	609	426
(WY)	(1999)	(2003)	(2003)	(1999)	(2004)	(2003)	(2005)	(2005)	(2003)	(2003)	(2005)	(2004)
MIN	19.2	30.7	38.0	51.3	69.6	49.0	27.6	10.1	9.58	12.7	16.2	33.2
(WY)	(2001)	(2000)	(2002)	(2002)	(2000)	(2004)	(2004)	(2000)	(2000)	(2000)	(2000)	(1999)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	164		337		178	
HIGHEST ANNUAL MEAN					337	2005
LOWEST ANNUAL MEAN					39.0	2000
HIGHEST DAILY MEAN	4,340	Sep 17	4,250	Apr 7	7,090	Nov 12, 2002
LOWEST DAILY MEAN	16	May 31	28	Sep 20	3.9	Jul 23, 2000
ANNUAL SEVEN-DAY MINIMUM	19	May 26	29	Sep 16	4.3	Jul 19, 2000
MAXIMUM PEAK FLOW			6,060	Apr 7	11,900	Nov 12, 2002
MAXIMUM PEAK STAGE			21.28	Apr 7	22.45	Sep 16, 2004
INSTANTANEOUS LOW FLOW			27	Sep 20	3.7	Jul 23, 2000
ANNUAL RUNOFF (INCHES)	27.13		55.49		29.41	
10 PERCENT EXCEEDS	350		800		362	
50 PERCENT EXCEEDS	86		176		85	
90 PERCENT EXCEEDS	27		80		21	

e Estimated

02366500 CHOCTAWHATCHEE RIVER NEAR BRUCE, FL

LOCATION.--Lat 30° 27'03", long 85° 53'54", in NE$^{1}/_{4}$ sec. 36, T. 1 N., R. 17 W., Walton County, Hydrologic Unit 03140203, near center of main channel on upstream side of bridge on State Highway 20, 4.0 mi southeast of Bruce, 5.8 mi downstream from Holmes Creek, and 21 mi upstream from mouth.

DRAINAGE AREA.--4,384 mi^2.

PERIOD OF RECORD.--October 1930 to March 1983; Apr. 1983 to May 1984 (discharge measurements only); June 1984 to current year.

REVISED RECORDS.--WSP 872: 1937. WSP 1384: Drainage area. WSP 1504: 1931-34.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Apr. 1, 1983 to May 14, 1999, nonrecording gage at same site and datum. Apr. 6, 1934 to Mar. 31, 1983, water-stage recorder at same site at datum 3.94 ft lower. Oct. 1, 1930 to Apr. 5, 1934, nonrecording gage at site 1.0 mi downstream at datum 4.19 ft lower.

REMARKS.--No estimated daily dishcarges. Records good.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of March 1929 reached a stage of 25.0 ft at former site and datum, from floodmarks, discharge, 220,000 ft^3/s, from rating curve extended above 145,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,840	5,060	14,100	9,710	5,160	5,170	28,800	12,600	3,340	3,210	4,380	5,270
2	4,380	4,610	13,800	8,600	5,370	5,220	43,500	13,600	3,510	3,450	4,580	5,350
3	4,070	4,250	12,900	7,630	5,730	5,380	50,800	14,700	3,880	3,700	4,840	5,760
4	3,840	4,040	11,700	6,830	6,140	5,500	52,200	16,500	4,340	3,900	5,100	6,410
5	3,680	3,950	10,400	6,250	6,440	5,590	51,800	19,300	4,830	4,000	5,640	7,010
6	3,510	4,000	9,170	5,820	6,750	5,530	49,900	20,800	5,370	4,140	6,460	7,430
7	3,370	4,130	8,240	5,490	7,090	5,370	50,300	19,400	5,960	4,360	7,240	7,370
8	3,260	4,340	7,480	5,500	7,420	5,260	48,900	16,400	6,460	4,580	7,990	6,760
9	3,180	4,550	6,840	5,500	7,480	5,130	43,800	13,400	6,660	4,880	9,360	5,790
10	3,140	4,600	6,670	5,450	7,220	4,970	39,100	11,100	6,450	5,400	12,500	4,910
11	3,160	4,490	6,950	5,500	6,760	4,850	35,900	9,270	6,340	6,060	16,500	4,260
12	3,180	4,340	7,630	5,760	6,300	4,780	33,600	8,000	6,180	6,420	17,400	3,830
13	3,230	4,240	8,310	6,270	6,070	4,660	30,900	7,030	6,250	6,650	15,600	3,540
14	3,350	4,380	8,590	6,920	6,470	4,530	27,700	6,290	6,500	7,180	13,600	3,290
15	3,580	4,710	8,640	7,160	7,120	4,360	24,700	5,740	7,030	8,360	12,200	3,140
16	3,620	4,930	8,480	7,320	7,570	4,670	22,100	5,320	7,780	10,200	11,300	3,070
17	3,510	4,980	7,970	7,900	7,560	5,080	19,500	5,020	8,450	12,100	10,400	2,960
18	3,340	4,820	7,270	9,190	7,330	5,670	17,000	4,820	8,630	13,000	9,470	2,890
19	3,180	4,540	6,540	11,000	7,160	6,310	14,700	4,710	8,220	13,000	8,720	2,840
20	3,320	4,240	5,900	12,100	6,940	6,870	12,700	4,690	7,300	12,800	8,370	2,770
21	3,650	4,050	5,400	11,900	6,570	7,400	11,100	4,640	6,130	12,300	8,560	2,730
22	4,180	3,920	5,170	10,700	6,120	7,690	9,930	4,440	5,110	11,600	8,840	2,700
23	4,750	4,180	5,740	9,350	5,630	7,550	9,320	4,210	4,430	10,700	8,690	2,720
24	5,420	4,850	5,540	8,180	5,310	7,020	8,810	4,120	3,910	9,480	8,250	2,710
25	6,370	5,490	5,660	7,230	5,080	6,860	8,460	4,070	3,560	8,180	7,670	2,770
26	7,160	6,100	6,400	6,510	4,990	7,380	8,580	3,970	3,280	7,210	7,160	2,900
27	7,290	7,050	7,610	5,950	5,030	9,620	9,080	3,820	3,110	6,500	6,750	3,020
28	6,900	8,780	9,510	5,530	5,110	11,800	9,790	3,670	3,000	5,900	6,300	3,160
29	6,450	11,200	11,100	5,350	---	13,100	10,400	3,490	2,930	5,340	5,840	3,360
30	6,040	13,300	11,500	5,250	---	14,800	11,400	3,420	2,990	4,870	5,560	3,650
31	5,550	---	10,800	5,180	---	18,100	---	3,310	---	4,510	5,440	---
MEAN	4,339	5,271	8,452	7,324	6,354	6,975	26,490	8,447	5,398	7,225	8,733	4,146
MAX	7,290	13,300	14,100	12,100	7,570	18,100	52,200	20,800	8,630	13,000	17,400	7,430
MIN	3,140	3,920	5,170	5,180	4,990	4,360	8,460	3,310	2,930	3,210	4,380	2,700
IN.	1.14	1.34	2.22	1.93	1.51	1.83	6.74	2.22	1.37	1.90	2.30	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

MEAN	4,426	4,385	6,302	8,896	10,310	12,190	10,870	6,283	5,161	5,702	5,866	4,562
MAX	24,890	13,870	25,970	29,400	20,460	31,510	27,220	20,870	18,080	48,020	26,770	24,000
(WY)	(1999)	(1931)	(1954)	(1936)	(1978)	(1998)	(1975)	(1946)	(1973)	(1994)	(1939)	(1937)
MIN	1,399	1,742	1,945	2,344	3,684	2,534	3,250	1,774	1,430	1,368	1,420	1,626
(WY)	(1969)	(1955)	(1956)	(1956)	(2002)	(1955)	(2004)	(2000)	(2000)	(2000)	(2000)	(1968)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL MEAN	6,085		8,256		7,063	
HIGHEST ANNUAL MEAN					11,620	1948
LOWEST ANNUAL MEAN					2,711	2000
HIGHEST DAILY MEAN	24,000	Sep 23	52,200	Apr 4	164,000	Jul 11, 1994
LOWEST DAILY MEAN	2,430	Aug 9	2,700	Sep 22	1,100	Jul 23, 2000
ANNUAL SEVEN-DAY MINIMUM	2,620	Apr 24	2,750	Sep 19	1,120	Jul 20, 2000
MAXIMUM PEAK FLOW			52,500	Apr 4	165,000	Jul 11, 1994
MAXIMUM PEAK STAGE			18.87	Apr 4	26.76	Jul 11, 1994
INSTANTANEOUS LOW FLOW			2,670	Sep 21	1,070	Jul 23, 2000
ANNUAL RUNOFF (INCHES)	18.90		25.57		21.89	
10 PERCENT EXCEEDS	11,700		13,200		14,000	
50 PERCENT EXCEEDS	4,540		6,180		4,960	
90 PERCENT EXCEEDS	3,120		3,440		2,290	

02366996 ALAQUA CREEK NEAR PLEASANT RIDGE, FL

LOCATION.--Lat 30° 40'08", long 86° 11'12", in SW 1/ 4 sec. 18, T. 2 N., R. 19 W., Walton County, Hydrologic unit 03140102, on left bank 80 ft downstream from bridge on Nelson Road, 0.3 mi downstream from Cosson Mill Creek, 0.6 mi upstream from Oakie Creek, 1.5 mi southwest of Sconiers Mill, and 1.9 mi south of Pleasant Ridge.

DRAINAGE AREA.--39.1 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is National Geodetic Vertical Datum of 1929, from topographic map. Prior to Jan. 22, 2003, at site 80 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	94	176	98	99	89	1,190	558	493	88	114	235
2	99	94	145	95	155	84	594	280	260	85	221	142
3	96	142	130	94	199	88	379	224	149	84	388	124
4	95	126	124	93	121	90	306	198	127	81	420	116
5	93	104	122	92	100	84	266	192	114	81	589	110
6	92	92	135	93	95	80	277	189	111	86	441	104
7	90	89	131	92	92	80	836	173	119	93	399	100
8	90	88	133	220	90	113	422	163	129	79	478	98
9	91	85	119	242	90	83	322	156	196	91	553	97
10	107	83	114	121	89	80	278	154	115	275	385	95
11	143	172	102	106	86	78	254	148	335	533	251	93
12	324	547	99	101	86	76	375	138	342	204	271	92
13	141	292	99	143	85	75	345	132	167	122	209	91
14	103	159	96	400	141	75	245	128	154	119	184	90
15	127	132	96	159	102	75	222	161	139	317	184	89
16	97	118	96	126	91	399	202	177	117	272	187	89
17	93	110	96	113	86	189	189	129	103	132	182	88
18	91	103	95	108	82	110	180	122	102	113	184	86
19	230	109	93	105	81	96	173	142	98	122	202	85
20	592	122	92	103	81	92	168	267	93	274	157	84
21	237	108	92	99	81	89	163	144	91	487	154	83
22	157	100	104	98	80	217	265	121	88	179	150	86
23	134	150	410	94	82	326	354	114	87	133	168	101
24	141	370	181	94	108	125	213	108	85	112	162	100
25	146	413	130	93	91	108	172	100	84	100	149	92
26	134	177	174	93	84	144	404	99	83	96	131	118
27	113	200	128	91	120	463	356	97	84	93	123	188
28	105	345	112	89	128	264	207	96	84	92	120	99
29	101	173	106	98	---	145	182	94	90	90	140	91
30	98	151	103	104	---	122	400	106	90	140	183	89
31	96	---	99	91	---	324	---	175	---	180	180	---
MEAN	141	168	127	121	101	144	331	164	144	160	247	105
MAX	592	547	410	400	199	463	1,190	558	493	533	589	235
MIN	90	83	92	89	80	75	163	94	83	79	114	83
IN.	4.15	4.80	3.74	3.57	2.69	4.25	9.46	4.84	4.12	4.71	7.29	3.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	135	97.4	96.6	88.9	87.8	117	120	72.8	108	124	120	93.4
MAX	491	168	137	139	135	168	331	164	201	262	247	178
(WY)	(1999)	(2005)	(1999)	(1999)	(2004)	(2003)	(2005)	(2005)	(2004)	(2003)	(2005)	(2004)
MIN	30.6	45.8	43.5	45.7	46.2	66.3	47.1	33.0	35.7	32.1	31.1	48.7
(WY)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	127		163		105	
HIGHEST ANNUAL MEAN					163	2005
LOWEST ANNUAL MEAN					55.4	2000
HIGHEST DAILY MEAN	1,100	Sep 16	1,190	Apr 1	4,400	Oct 1, 1998
LOWEST DAILY MEAN	48	May 29	75	Mar 13	22	Aug 13, 2000
ANNUAL SEVEN-DAY MINIMUM	49	May 25	77	Mar 9	23	Aug 13, 2000
MAXIMUM PEAK FLOW			1,360	Apr 1	4,400	Oct 1, 1998
MAXIMUM PEAK STAGE			54.69	Apr 1	55.85	Sep 16, 2004
INSTANTANEOUS LOW FLOW			72	Mar 15	21	Aug 18, 2000
ANNUAL RUNOFF (INCHES)	44.39		56.60		36.54	
10 PERCENT EXCEEDS	228		324		189	
50 PERCENT EXCEEDS	96		117		75	
90 PERCENT EXCEEDS	59		86		39	

02367900 YELLOW RIVER NEAR OAK GROVE, FL

LOCATION.--Lat 30°55'34", long 86°33'34", in SE$^{1}/_{4}$ sec. 17, T. 5 N., R. 23 W., Okaloosa County, Hydrologic Unit 03140103, at bridge on downstream side at State Highway 2, 0.7 mi east of Oak Grove, and 58 mi above mouth.

DRAINAGE AREA.--523 mi^2.

PERIOD OF RECORD.--September 1966 to October 1968, (annual maximum and gage height only), October 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.19 ft above National Geodetic Vertical Datum of 1929. Prior to May 1968, nonrecording gage at present site and National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 30, 1998 reached a stage of 108.42 ft, present datum, from floodmarks, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	660	782	1,840	912	879	851	7,590	3,120	577	630	984	1,440
2	631	738	1,850	881	1,070	789	10,600	4,220	709	769	857	1,490
3	606	845	1,720	851	1,520	717	13,000	4,590	959	736	797	1,240
4	583	1,930	1,360	824	1,670	730	10,800	3,950	1,160	706	1,060	1,010
5	555	3,390	1,160	805	1,500	745	7,480	2,080	1,330	716	1,380	729
6	533	5,050	1,250	790	1,140	699	4,890	1,320	1,080	573	1,390	599
7	512	4,170	1,620	782	917	652	6,320	1,170	764	611	1,790	531
8	499	2,670	2,130	1,030	827	658	8,480	1,090	607	578	1,940	484
9	493	1,330	2,490	1,370	787	643	9,180	978	588	541	1,690	448
10	511	987	2,350	1,460	839	620	7,510	894	1,000	674	1,210	420
11	596	1,050	2,110	1,290	1,040	593	5,180	832	1,330	1,610	1,830	397
12	639	1,920	1,750	1,040	1,190	569	3,680	781	1,750	2,050	1,940	380
13	661	2,820	1,380	977	1,030	552	3,480	733	1,850	2,330	1,340	368
14	651	2,940	1,110	1,570	947	542	3,410	691	1,790	2,310	1,220	354
15	602	2,180	977	2,010	1,140	536	3,050	664	1,160	1,790	1,300	342
16	545	1,320	908	1,900	1,170	731	2,310	820	763	2,010	1,240	336
17	505	1,020	864	1,420	1,010	960	1,720	799	609	2,110	1,570	327
18	478	906	841	1,040	857	1,040	1,440	704	526	1,660	1,750	317
19	643	843	826	893	766	908	1,280	655	472	1,290	1,410	310
20	1,770	869	804	838	708	744	1,170	609	442	1,050	1,100	304
21	3,560	1,390	779	814	681	692	1,120	571	429	982	821	297
22	5,740	1,890	785	796	674	756	1,580	548	406	958	698	295
23	4,980	1,660	1,410	769	671	967	1,370	552	381	864	720	302
24	2,940	1,780	2,250	736	698	1,010	1,230	516	365	733	728	299
25	2,000	2,820	2,660	712	719	845	1,110	482	344	693	916	327
26	2,660	3,600	2,600	693	710	799	1,140	456	329	628	911	478
27	2,660	3,680	1,900	687	701	2,010	1,420	433	326	551	723	652
28	1,850	3,120	1,440	683	777	5,120	1,460	410	346	499	658	847
29	1,160	2,690	1,180	711	---	9,600	1,360	394	397	648	637	1,000
30	948	2,300	1,030	800	---	9,820	1,440	388	380	787	865	748
31	850	---	953	866	---	7,590	---	415	---	1,170	1,190	---
MEAN	1,356	2,090	1,494	998	951	1,725	4,193	1,157	772	1,073	1,183	569
MAX	5,740	5,050	2,660	2,010	1,670	9,820	13,000	4,590	1,850	2,330	1,940	1,490
MIN	478	738	779	683	671	536	1,110	388	326	499	637	295
IN.	3.07	4.57	3.38	2.26	1.94	3.90	9.18	2.62	1.69	2.43	2.67	1.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	1,313	762	766	831	931	1,537	1,316	595	846	1,005	777	692
MAX	6,104	2,090	1,494	1,385	2,153	3,455	4,193	1,157	1,648	2,957	2,200	2,040
(WY)	(1999)	(2005)	(2005)	(1999)	(2004)	(2001)	(2005)	(2005)	(2003)	(2003)	(2003)	(2004)
MIN	102	242	310	357	520	558	405	176	157	117	136	140
(WY)	(2001)	(2002)	(2002)	(2002)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	1,236		1,463		948	
HIGHEST ANNUAL MEAN					1,479	2003
LOWEST ANNUAL MEAN					305	2000
HIGHEST DAILY MEAN	10,500	Sep 18	13,000	Apr 3	66,100	Oct 1, 1998
LOWEST DAILY MEAN	247	Aug 9	295	Sep 22	86	Oct 31, 2000
ANNUAL SEVEN-DAY MINIMUM	285	Aug 3	303	Sep 18	86	Oct 30, 2000
MAXIMUM PEAK FLOW			13,300	Apr 3	13,300	Apr 3, 2005
MAXIMUM PEAK STAGE			94.83	Apr 3	94.83	Apr 3, 2005
INSTANTANEOUS LOW FLOW			289	Sep 22	84	Oct 31, 2000
ANNUAL RUNOFF (INCHES)	32.99		38.95		25.26	
10 PERCENT EXCEEDS	2,840		2,740		1,910	
50 PERCENT EXCEEDS	742		908		541	
90 PERCENT EXCEEDS	373		478		182	

02368000 YELLOW RIVER AT MILLIGAN, FL

LOCATION.--Lat 30°45'10", long 86°37'45", in SE$^{1}/_{4}$ sec. 15, T.3 N., R.24 W., Okaloosa County, Hydrologic Unit 03140103, near center on downstream side of bridge on U.S. Highway 90, 0.5 mi east of Milligan, 0.5 mi upstream from Trammel Creek, 6.7 mi upstream from Shoal River, and 40 mi upstream from mouth.

DRAINAGE AREA.--624 mi^2

PERIOD OF RECORD.--July 1938 to September 1993, October 1996 to current year.

REVISED RECORDS.--WSP 892: 1938-39. WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 45.00 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 6, 1939, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1929 reached a stage of 26.2 ft, from information by local residents, discharge 137,000 ft^3/s, from rating extended above 46,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	832	1,170	2,320	1,350	1,230	1,120	9,780	2,220	1,160	691	1,630	1,700
2	800	1,070	2,130	1,290	1,360	1,140	9,870	2,630	1,220	982	1,600	1,690
3	770	1,090	2,020	1,240	1,600	1,080	11,100	3,160	1,290	1,230	1,490	1,710
4	745	1,810	1,970	1,190	1,810	1,050	13,000	3,480	1,300	976	1,330	1,560
5	720	2,100	1,800	1,160	1,870	1,040	10,300	3,150	1,410	983	1,510	1,300
6	695	2,470	1,680	1,130	1,790	1,010	7,040	2,280	1,530	981	1,700	974
7	672	3,660	1,690	1,120	1,550	950	6,460	1,750	1,360	978	1,710	818
8	652	3,570	1,910	1,540	1,300	984	6,970	1,510	1,110	850	1,860	737
9	641	2,620	2,120	1,900	1,180	942	8,130	1,390	918	808	1,950	685
10	685	1,900	2,290	1,840	1,130	893	8,540	1,270	956	1,060	1,900	646
11	842	1,620	2,290	1,800	1,190	850	6,760	1,180	1,500	1,710	1,630	616
12	847	1,890	2,150	1,700	1,340	807	4,930	1,110	1,890	1,880	1,750	592
13	828	2,090	2,010	1,550	1,450	776	3,580	1,040	1,960	1,980	1,980	575
14	810	2,300	1,790	1,710	1,470	756	2,940	987	1,940	2,100	1,720	559
15	782	2,420	1,540	1,930	1,420	743	2,740	969	1,900	2,270	1,560	546
16	729	2,240	1,380	2,050	1,480	992	2,510	1,020	1,580	2,120	1,670	537
17	676	1,830	1,290	2,030	1,500	1,240	2,230	1,080	1,060	2,020	1,640	532
18	641	1,460	1,230	1,830	1,350	1,330	1,950	1,010	865	2,040	1,870	524
19	855	1,300	1,190	1,500	1,170	1,350	1,740	948	774	1,990	1,900	515
20	2,190	1,220	1,160	1,310	1,060	1,210	1,600	1,120	706	1,730	1,750	503
21	2,180	1,330	1,130	1,230	988	1,020	1,500	929	670	1,600	1,440	497
22	2,370	1,650	1,130	1,190	955	997	1,550	833	644	1,640	1,130	496
23	4,110	1,940	1,630	1,140	949	1,130	1,900	805	609	1,550	1,040	514
24	4,530	2,190	1,910	1,100	999	1,270	1,860	787	587	1,230	1,050	521
25	3,170	2,430	2,090	1,060	1,020	1,280	1,610	740	561	1,040	1,090	540
26	2,270	2,550	2,300	1,030	1,010	1,120	1,740	706	536	958	1,310	979
27	2,250	2,970	2,340	1,000	1,010	1,320	1,770	674	526	873	1,190	1,400
28	2,310	3,600	2,130	992	1,070	1,910	1,780	647	537	781	1,010	1,110
29	2,110	3,090	1,840	1,010	---	3,550	1,740	630	665	845	1,060	1,120
30	1,670	2,510	1,610	1,060	---	8,440	1,860	632	621	1,180	1,250	1,150
31	1,330	---	1,450	1,140	---	9,480	---	729	---	1,400	1,430	---
MEAN	1,442	2,136	1,791	1,391	1,295	1,670	4,649	1,336	1,080	1,370	1,521	855
MAX	4,530	3,660	2,340	2,050	1,870	9,480	13,000	3,480	1,960	2,270	1,980	1,710
MIN	641	1,070	1,130	992	949	743	1,500	630	526	691	1,010	496
IN.	2.67	3.82	3.31	2.57	2.16	3.09	8.32	2.47	1.93	2.53	2.81	1.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2005, BY WATER YEAR (WY)

MEAN	717	750	1,149	1,407	1,611	2,010	1,690	1,031	903	875	947	866
MAX	6,587	2,737	6,232	3,375	3,066	6,380	5,322	4,173	3,733	3,191	5,434	4,305
(WY)	(1999)	(1990)	(1954)	(1990)	(1979)	(1998)	(1975)	(1978)	(1970)	(1940)	(1975)	(1975)
MIN	151	201	286	371	567	405	456	220	206	172	218	179
(WY)	(2001)	(1955)	(1955)	(1955)	(1950)	(1955)	(1967)	(2002)	(2002)	(2000)	(2000)	(1972)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1938 - 2005	
ANNUAL MEAN	1,347		1,710		1,161	
HIGHEST ANNUAL MEAN					2,206	1975
LOWEST ANNUAL MEAN					374	2000
HIGHEST DAILY MEAN	10,400	Sep 20	13,000	Apr 4	71,700	Oct 1, 1998
LOWEST DAILY MEAN	334	May 30	496	Sep 22	123	Jun 14, 2000
ANNUAL SEVEN-DAY MINIMUM	381	May 25	510	Sep 18	127	Oct 29, 2000
MAXIMUM PEAK FLOW			13,400	Apr 4	82,800	Sep 30, 1998
MAXIMUM PEAK STAGE			12.25	Apr 4	23.92	Sep 30, 1998
INSTANTANEOUS LOW FLOW			489	Sep 22	120	Jun 13, 2000
ANNUAL RUNOFF (INCHES)	29.39		37.20		25.29	
10 PERCENT EXCEEDS	2,420		2,420		2,250	
50 PERCENT EXCEEDS	928		1,330		755	
90 PERCENT EXCEEDS	495		685		310	

02368326 CANEY CREEK TRIBUTARY NO. 2 NEAR PAXTON, FL

LOCATION.--Lat 30° 56'02", long 86° 13'32", in NE 1/4 sec. 15, T.5N., R.20W., Walton County, Hydrologic Unit 03140103, on upstream side of culvert on County Road 0605, 2.6 mi north of the community of Caney Creek, and 5.2 mi southeast of Paxton.

DRAINAGE AREA.--0.19 mi^2.

PERIOD OF RECORD.--October 1995 to September 1998 (fragmentary), October 1998 to September 1999, October 1999 to September 2000 (fragmentary), October 2000 to September 2001, October 2001 to September 2002 (fragmentary), October 2002 to current year.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--No estimated daily discharges. Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.81	0.00	0.00	0.00	16	1.4	1.4	0.00	0.02	0.42
2	0.00	0.00	0.69	0.00	0.01	0.00	1.5	0.78	1.2	0.01	0.01	0.06
3	0.00	0.00	0.52	0.00	0.21	0.00	0.79	0.52	0.92	0.00	0.00	0.00
4	0.00	0.01	0.34	0.00	0.15	0.00	0.56	0.20	0.47	0.00	0.00	0.00
5	0.00	0.00	0.24	0.00	0.02	0.00	0.38	0.00	0.25	0.00	0.00	0.00
6	0.00	0.00	0.20	0.00	0.00	0.00	0.67	0.00	0.01	0.01	0.00	0.00
7	0.00	0.00	0.83	0.00	0.00	0.01	3.1	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	1.10	0.11	0.00	0.00	0.97	0.00	0.33	0.00	0.00	0.00
9	0.00	0.00	0.83	0.13	0.00	0.00	0.63	0.00	0.92	0.00	0.11	0.00
10	0.00	0.00	0.65	0.06	0.00	0.00	0.42	0.00	0.43	2.9	0.26	0.00
11	0.00	0.09	0.49	0.00	0.00	0.00	0.27	0.00	2.8	1.8	0.21	0.00
12	0.00	1.8	0.31	0.00	0.00	0.00	0.59	0.00	1.2	0.80	0.15	0.00
13	0.00	0.94	0.14	1.3	0.00	0.00	0.72	0.00	0.62	0.40	0.09	0.00
14	0.00	0.58	0.00	1.4	0.00	0.00	0.48	0.00	0.36	0.08	0.00	0.00
15	0.00	0.38	0.00	0.84	0.00	0.00	0.27	0.00	0.06	0.00	0.00	0.00
16	0.00	0.12	0.00	0.59	0.00	0.22	0.04	0.00	0.00	0.00	0.06	0.00
17	0.00	0.00	0.00	0.45	0.00	0.21	0.00	0.00	0.00	0.03	0.07	0.00
18	0.00	0.00	0.00	0.23	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
19	0.09	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.06	1.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.02	1.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.94	1.9	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	4.0	4.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.02	8.8	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	1.5	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
26	0.00	0.92	0.95	0.00	0.00	0.14	0.03	0.00	0.00	0.00	0.00	0.00
27	0.00	1.4	0.69	0.00	0.00	1.9	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	1.3	0.52	0.00	0.00	1.2	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.81	0.35	0.00	---	0.68	0.00	0.00	0.00	0.10	0.00	0.00
30	0.00	0.58	0.21	0.00	---	0.43	2.3	0.00	0.04	0.00	0.36	0.00
31	0.00	---	0.08	0.00	---	9.0	---	0.02	---	0.00	0.29	---
MEAN	0.01	0.91	0.58	0.17	0.01	0.45	0.99	0.09	0.37	0.20	0.05	0.02
MAX	0.09	8.8	4.2	1.4	0.21	9.0	16	1.4	2.8	2.9	0.36	0.42
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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	0.06	0.29	0.26	0.28	0.47	0.71	0.31	0.14	0.26	0.27	0.18	0.48
MAX	0.33	0.91	0.72	1.56	1.36	1.63	0.99	0.55	0.82	0.73	0.46	3.41
(WY)	(1999)	(2005)	(1998)	(1998)	(1998)	(1998)	(2005)	(1997)	(2004)	(1997)	(2001)	(1998)
MIN	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2001)	(2004)	(2004)	(2000)	(2001)	(2004)	(1999)	(2001)	(2002)	(2001)	(2004)	(1999)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL MEAN	0.39		0.32		0.36	
HIGHEST ANNUAL MEAN					0.76	1998
LOWEST ANNUAL MEAN					0.20	2003
HIGHEST DAILY MEAN	19	Sep 16	16	Apr 1	47	Sep 29, 1998
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jun 17, 1998
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 6	0.00	Oct 1	0.00	Jun 23, 1998
MAXIMUM PEAK FLOW			76	Apr 1	243	Mar 8, 1998
MAXIMUM PEAK STAGE			6.37	Apr 1	9.94	Mar 8, 1998
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	May 7, 1997
10 PERCENT EXCEEDS	1.0		0.83		0.83	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

02368500 SHOAL RIVER NEAR MOSSY HEAD, FL

LOCATION.--Lat 30° 47'45", long 86° 18'25", in SW 1/4 sec. 36, T.4 N., R.21 W., Walton County, Hydrologic Unit 03140103, near center span on dowstream side of bridge on County Road 1087, about 200 ft downstream from Machine Branch, 3.9 mi north of Mossy Head, and 34 mi upstream from mouth.

DRAINAGE AREA.--123 mi^2.

PERIOD OF RECORD.--March 1951 to September 1978, May 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 105.59 ft National Geodetic Vertical Datum of 1929. Prior to July 24, 1956, at site 300 ft north at same datum.

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	120	471	229	219	252	4,040	1,700	927	212	517	392
2	152	116	452	221	304	216	4,080	1,150	1,010	177	511	274
3	140	159	382	213	443	214	1,610	719	891	185	598	224
4	128	167	334	207	361	231	1,150	567	526	188	638	199
5	119	158	308	201	284	215	894	491	375	196	728	184
6	111	130	317	199	253	202	753	450	313	198	609	172
7	102	116	334	200	235	198	1,660	410	271	220	527	163
8	96	111	390	415	225	263	1,540	385	319	177	485	155
9	93	105	361	549	222	237	1,030	362	963	172	516	149
10	108	102	309	353	224	208	830	346	408	553	403	145
11	155	243	274	264	211	197	706	329	702	1,420	422	140
12	235	1,070	247	238	206	191	844	313	1,090	1,060	643	136
13	209	1,070	232	348	200	187	939	297	627	630	474	133
14	141	508	217	1,050	265	185	687	285	489	578	366	129
15	132	345	205	726	295	183	574	287	362	519	324	126
16	114	277	197	424	242	440	505	306	303	495	312	125
17	100	235	192	348	222	499	453	271	268	388	296	122
18	93	204	188	306	205	329	411	253	247	390	291	119
19	308	198	182	280	195	266	379	242	233	399	268	116
20	984	248	175	265	191	241	355	246	216	340	249	113
21	548	416	170	257	192	228	339	239	202	604	250	111
22	343	314	193	250	192	373	498	225	189	646	243	117
23	259	291	1,020	237	195	756	528	214	180	342	244	125
24	230	949	888	226	225	454	440	206	173	270	230	133
25	230	1,850	439	222	227	341	348	193	168	239	220	134
26	202	946	429	224	212	331	880	184	162	222	228	172
27	170	676	383	221	241	815	1,080	178	159	209	207	238
28	150	960	317	212	320	922	669	173	177	198	195	164
29	138	695	279	220	---	532	499	167	212	216	207	146
30	131	487	256	222	---	335	796	173	220	273	337	138
31	125	---	239	212	---	691	---	229	---	394	409	---
MEAN	200	442	335	308	243	346	984	374	413	391	385	160
MAX	984	1,850	1,020	1,050	443	922	4,080	1,700	1,090	1,420	728	392
MIN	93	102	170	199	191	183	339	167	159	172	195	111
IN.	1.88	4.01	3.14	2.88	2.06	3.25	8.93	3.51	3.74	3.66	3.61	1.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	181	176	242	268	301	307	320	205	210	209	221	220
MAX	963	556	890	652	649	739	984	630	582	641	831	708
(WY)	(1976)	(1976)	(1954)	(1974)	(1974)	(1978)	(2005)	(1978)	(1959)	(2003)	(1975)	(1975)
MIN	48.6	67.3	67.1	93.2	102	78.3	90.3	48.1	46.2	46.7	49.6	52.4
(WY)	(2001)	(1956)	(1956)	(2002)	(2002)	(1955)	(1967)	(2000)	(2000)	(2000)	(2000)	(1972)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL MEAN	283		382		242	
HIGHEST ANNUAL MEAN					399	1978
LOWEST ANNUAL MEAN					113	2002
HIGHEST DAILY MEAN	4,870	Sep 17	4,080	Apr 2	8,250	Jul 31, 1975
LOWEST DAILY MEAN	73	May 30	93	Oct 9	29	Jun 26, 2000
ANNUAL SEVEN-DAY MINIMUM	80	May 25	108	Oct 4	34	Jun 20, 2000
MAXIMUM PEAK FLOW			5,960	Apr 2	10,500	Apr 27, 1964
MAXIMUM PEAK STAGE			19.85	Apr 2	23.64	Apr 27, 1964
INSTANTANEOUS LOW FLOW			89	Oct 19	27	Jun 26, 2000
ANNUAL RUNOFF (INCHES)	31.31		42.12		26.70	
10 PERCENT EXCEEDS	560		754		447	
50 PERCENT EXCEEDS	169		250		164	
90 PERCENT EXCEEDS	108		139		78	

02369000 SHOAL RIVER NEAR CRESTVIEW, FL

LOCATION.--Lat 30°41'50", long 86°34'15", in SW$^{1}/_{4}$ sec. 5, T. 2 N., R. 23 W., Okaloosa County, Hydrologic Unit 03140103, near center of bridge on downstream side of southbound lane on State Highway 85, 3.5 mi downstream from Titi Creek, 4.2 mi south of Crestview, and 7 mi upstream from mouth.

DRAINAGE AREA.--474 mi^2.

PERIOD OF RECORD.--July 1938 to current year.

REVISED RECORDS.--WSP 1274: 1939-40, 1944, 1947, 1950. WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 47.21 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 12, 1939, June 12, 1972 to Aug. 22, 1973, and July 8, 1994 to Oct. 6, 1995, nonrecording gage at same site and datum.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1,150	995	2,450	1,350	1,090	1,220	6,430	3,910	1,640	1,170	1,690	2,630
2	e1,110	978	2,270	1,300	1,250	1,050	10,400	4,890	2,490	1,250	1,900	2,400
3	e1,070	1,020	2,120	1,250	1,730	980	12,400	4,750	3,180	1,340	2,620	1,710
4	e1,040	1,650	1,880	1,200	2,040	1,020	8,410	3,070	2,920	1,240	2,460	1,250
5	992	2,440	1,720	1,170	1,760	1,020	5,300	2,290	2,090	1,050	2,460	1,060
6	973	2,020	1,720	1,160	1,360	968	3,560	2,040	1,640	1,090	2,640	988
7	956	1,420	1,820	1,150	1,170	930	4,500	1,920	1,410	1,220	2,470	942
8	941	1,110	1,940	1,420	1,100	1,000	5,570	1,800	1,330	1,120	2,210	909
9	931	1,010	2,210	2,500	1,050	1,090	6,070	1,680	1,440	1,000	1,990	882
10	960	966	2,140	2,780	1,050	1,000	4,480	1,590	1,960	1,400	1,910	860
11	1,200	1,130	1,950	2,170	1,040	933	3,070	1,520	2,090	3,260	1,850	841
12	1,350	2,960	1,700	1,610	1,010	895	2,840	1,450	2,900	4,310	1,760	821
13	1,310	4,310	1,490	1,490	987	870	3,250	1,370	3,220	4,160	2,050	805
14	1,170	4,080	1,360	2,110	1,030	862	3,200	1,300	2,780	3,030	1,850	791
15	1,030	2,780	1,260	2,940	1,260	859	2,710	1,390	2,270	3,010	1,530	776
16	988	1,850	1,200	2,840	1,280	1,150	2,290	1,630	1,700	2,610	1,490	767
17	941	1,510	1,180	2,010	1,100	1,870	2,070	1,470	1,370	2,430	1,540	757
18	903	1,340	1,160	1,580	1,010	1,920	1,920	1,270	1,190	2,040	1,440	744
19	890	1,240	1,140	1,410	968	1,360	1,810	1,160	1,120	1,870	1,340	734
20	1,950	1,290	1,110	1,330	945	1,070	1,730	1,450	1,050	1,760	1,180	720
21	4,060	1,700	1,080	1,280	939	1,000	1,670	1,570	1,010	1,620	1,080	706
22	3,430	2,150	1,120	1,230	936	982	1,810	1,260	977	1,950	1,060	721
23	2,260	2,040	2,160	1,190	938	1,270	2,510	1,110	951	1,890	1,120	814
24	1,610	2,360	3,880	1,130	989	1,730	2,640	1,050	941	1,480	1,320	809
25	1,580	4,310	4,280	1,100	1,040	1,460	2,170	1,010	931	1,180	1,240	823
26	1,800	5,700	3,050	1,080	1,030	1,150	2,240	977	906	1,090	1,280	1,080
27	1,670	5,520	2,240	1,070	1,010	1,640	3,260	956	894	1,030	1,080	1,810
28	1,310	4,120	1,950	1,050	1,160	2,570	3,340	939	887	993	992	1,420
29	1,140	3,670	1,680	1,060	---	2,900	2,690	925	980	980	1,080	994
30	1,060	3,130	1,520	1,100	---	2,280	2,450	949	1,110	1,160	1,790	885
31	1,020	---	1,420	1,100	---	1,950	---	1,010	---	1,450	2,360	---
MEAN	1,380	2,360	1,877	1,521	1,153	1,323	3,893	1,732	1,646	1,780	1,703	1,048
MAX	4,060	5,700	4,280	2,940	2,040	2,900	12,400	4,890	3,220	4,310	2,640	2,630
MIN	890	966	1,080	1,050	936	859	1,670	925	887	980	992	706
MED	1,110	1,930	1,720	1,280	1,040	1,070	2,960	1,450	1,390	1,400	1,690	850
IN.	3.36	5.56	4.57	3.70	2.53	3.22	9.17	4.21	3.88	4.33	4.14	2.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2005, BY WATER YEAR (WY)

MEAN	864	868	1,022	1,214	1,353	1,494	1,320	984	1,018	1,117	1,126	1,079
MAX	4,097	2,360	3,601	2,606	2,974	3,327	3,893	2,752	4,421	5,436	4,385	4,370
(WY)	(1999)	(2005)	(1954)	(1978)	(1982)	(1948)	(2005)	(1978)	(1989)	(1994)	(1975)	(1998)
MIN	265	331	345	417	500	365	396	254	309	265	261	301
(WY)	(2001)	(1955)	(1956)	(1939)	(2001)	(1955)	(2000)	(2000)	(2000)	(2000)	(2000)	(1972)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1938 - 2005	
ANNUAL MEAN	1,409		1,785		1,121	
HIGHEST ANNUAL MEAN					1,785	2005
LOWEST ANNUAL MEAN					470	2000
HIGHEST DAILY MEAN	13,500	Sep 18	12,400	Apr 3	55,500	Sep 30, 1998
LOWEST DAILY MEAN	428	Apr 25	706	Sep 21	186	Jun 11, 2000
ANNUAL SEVEN-DAY MINIMUM	456	Apr 19	736	Sep 16	190	Jun 8, 2000
MAXIMUM PEAK FLOW			13,200	Apr 3	59,100	Sep 30, 1998
MAXIMUM PEAK STAGE			11.80	Apr 3	21.40	Sep 30, 1998
INSTANTANEOUS LOW FLOW			698	Sep 22	183	Jun 12, 2000
ANNUAL RUNOFF (INCHES)	40.46		51.13		32.13	
10 PERCENT EXCEEDS	2,770		3,060		2,050	
50 PERCENT EXCEEDS	976		1,350		837	
90 PERCENT EXCEEDS	581		939		426	

e Estimated

02369600 YELLOW RIVER NEAR MILTON, FL

LOCATION.--Lat 30°34'16", long 86°55'28", in NE1/4 sec. 26, T. 1 N., R. 27 W., Santa Rosa County, Hydrologic Unit 03140103, at main channel on downstream side of bridge on State Highway 87, 5.9 mi upstream from mouth, and 8.0 mi southeast of Milton.

DRAINAGE AREA.--1,350 mi^2, approximately.

PERIOD OF RECORD.--October 1964 to October 1972 (annual maximum elevation), October 2001 to September 2004, October 2004 to September 2005 (fragmentary).

GAGE.--Water-stage and water-current meter recorders. Datum of gage is 35.5 ft below National Geodetic Vertical Datum of 1929 (from design datum of bridge deck furnished by Florida Department of Transportation). Prior to October 1972, nonrecording gage at present site at National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow is tide affected. Maximum gage height, 45.22 ft and mean daily discharge of 504 ft^3/s on Sept. 16, 2004, were result of Hurricane Ivan storm surge.

MAIN CHANNEL ONLY

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,240	2,920	5,850	3,250	1,560	---	---	---	---	1,740	2,870	3,180
2	2,800	2,710	5,030	3,080	---	---	---	---	---	1,970	3,190	3,220
3	2,620	2,450	4,620	2,940	---	---	---	---	---	2,120	3,350	3,460
4	2,430	2,420	4,240	2,680	---	---	---	---	---	2,200	3,370	3,690
5	2,220	e2,470	4,010	2,460	---	---	---	---	e2,890	2,280	3,500	3,710
6	2,070	e2,600	3,890	e2,330	---	---	---	---	3,800	1,740	3,820	3,540
7	1,990	2,890	3,790	e2,360	---	---	---	---	3,870	2,540	3,980	3,500
8	2,090	3,250	3,560	e2,860	---	---	---	---	3,810	2,280	4,110	3,370
9	2,070	3,400	3,380	e3,260	---	---	---	---	3,480	2,200	4,180	3,080
10	2,160	3,450	3,540	e3,270	---	---	---	---	2,900	2,010	4,230	2,770
11	2,250	3,440	3,810	e3,170	---	---	---	---	2,310	2,350	4,150	2,500
12	2,390	3,490	4,190	3,340	---	---	---	---	3,170	2,860	3,950	2,310
13	2,290	3,260	4,240	3,480	---	---	---	---	3,400	3,250	3,840	2,150
14	2,120	3,060	4,130	3,450	---	---	---	---	3,610	4,040	3,770	2,080
15	2,380	3,430	3,900	3,280	---	---	---	---	3,590	4,370	3,820	2,010
16	2,320	3,990	3,640	3,070	---	---	---	---	3,550	4,520	3,990	1,960
17	2,200	3,980	3,370	3,040	---	---	---	---	3,380	4,540	4,080	1,990
18	2,030	3,810	3,160	3,300	---	---	---	---	3,190	4,060	3,950	1,920
19	1,990	3,600	2,940	3,410	---	---	---	---	2,850	3,590	3,840	1,900
20	1,700	3,360	2,270	3,380	---	---	---	---	2,710	3,470	3,710	1,880
21	1,550	3,060	2,160	3,200	---	---	---	---	2,490	3,570	3,660	1,900
22	1,690	2,770	2,290	e2,920	---	---	---	---	2,210	4,010	3,600	1,500
23	2,570	2,670	2,990	e2,620	---	---	---	---	2,080	3,940	3,520	1,590
24	3,950	3,050	2,670	e2,340	---	---	---	---	1,910	3,860	3,430	1,750
25	4,330	3,740	2,440	e2,000	---	---	---	---	1,870	3,720	3,270	2,070
26	4,410	4,140	2,950	e1,740	---	---	---	---	1,760	3,750	3,170	2,470
27	4,240	4,760	3,890	e1,590	---	---	---	---	1,780	3,600	3,150	2,980
28	3,980	6,340	4,040	e1,420	---	---	---	---	1,680	3,430	2,680	3,150
29	3,680	6,520	3,920	1,360	---	---	---	---	1,680	3,230	933	3,370
30	3,320	6,310	3,660	1,510	---	---	---	---	1,650	3,050	3,150	3,520
31	3,080	---	3,420	1,470	---	---	---	---	---	2,820	3,350	---
MEAN	2,650	3,578	3,613	2,696	---	---	---	---	---	3,133	3,536	2,617
MAX	4,410	6,520	5,850	3,480	---	---	---	---	---	4,540	4,230	3,710
MIN	1,550	2,420	2,160	1,360	---	---	---	---	---	1,740	933	1,500
IN.	2.28	2.98	3.11	2.32	---	---	---	---	---	2.70	3.04	2.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	2,106	2,285	2,317	1,932	2,393	2,589	1,867	1,938	2,303	2,965	2,878	2,655
MAX	2,650	3,578	3,613	2,696	3,258	3,530	2,637	2,629	3,282	4,681	4,154	3,547
(WY)	(2005)	(2005)	(2005)	(2005)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	901	1,092	1,189	1,297	1,592	1,766	1,342	972	1,016	1,249	1,305	1,414
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		WATER YEARS 2001 - 2005	
ANNUAL MEAN	2,692		2,221	
HIGHEST ANNUAL MEAN			2,978	2003
LOWEST ANNUAL MEAN			1,259	2002
HIGHEST DAILY MEAN	6,520	Nov 29	6,570	Jul 5, 2003
LOWEST DAILY MEAN	504	Sep 16	504	Sep 16, 2004
ANNUAL SEVEN-DAY MINIMUM	882	Jan 11	687	Oct 10, 2001
MAXIMUM PEAK FLOW			7,200	Nov 29, 2004
MAXIMUM PEAK STAGE			44.60	Apr 5, 2005
ANNUAL RUNOFF (INCHES)	27.36		22.52	
10 PERCENT EXCEEDS	4,090		3,900	
50 PERCENT EXCEEDS	2,460		1,970	
90 PERCENT EXCEEDS	1,520		1,020	

e Estimated

02370000 BLACKWATER RIVER NEAR BAKER, FL

LOCATION.--Lat 30°50'00", long 86°44'05", in SW$^{1}/_{4}$ sec. 22, T. 4 N., R. 25 W., Okaloosa County, Blackwater River State Forest, Hydrologic Unit 03140104, near left bank on downstream side of bridge on State Highway 4, 0.3 mi downstream from Red Wash Branch, 3.8 mi northwest of Baker, and 35 mi upstream from mouth.

DRAINAGE AREA.--205 mi^2

PERIOD OF RECORD.--March 1950 to September 1992, October 1996 to current year.

REVISED RECORDS.--WSP 1704: 1950 (M), 1951-52.

GAGE.--Water-stage recorder. Datum of gage is 60.5 ft above National Geodetic Vertical Datum of 1929 (from design datum of bridge curb furnished by Florida Department of Transportation).

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239	294	703	383	330	347	4,250	1,970	549	309	716	1,030
2	229	281	690	367	455	311	6,350	1,710	533	290	555	700
3	220	351	591	353	721	297	4,820	1,100	442	283	487	535
4	211	778	516	339	683	334	2,510	796	437	289	888	426
5	203	1,210	471	330	553	323	1,360	666	446	276	877	362
6	195	1,130	592	322	456	297	1,110	742	393	277	883	321
7	190	749	645	318	395	278	3,540	677	346	293	819	289
8	188	554	906	534	361	288	3,800	587	319	275	660	267
9	186	444	821	856	345	282	2,600	527	369	256	542	250
10	198	379	741	648	344	264	1,430	499	411	441	481	237
11	250	481	603	541	330	254	1,020	470	659	1,370	996	225
12	298	1,230	512	452	315	246	1,190	433	1,160	1,120	1,560	214
13	281	1,130	455	504	302	239	1,470	402	963	762	1,060	206
14	247	861	413	1,250	361	235	1,130	380	1,010	704	729	198
15	228	652	383	983	433	234	870	373	726	908	656	191
16	213	520	364	749	383	346	717	398	522	924	1,010	185
17	200	439	352	590	346	522	618	370	416	701	1,270	180
18	191	390	341	489	315	420	547	345	374	543	872	176
19	801	360	331	433	293	353	494	330	349	478	687	171
20	2,090	400	320	401	281	310	456	337	327	563	568	167
21	1,140	648	310	381	275	294	430	319	309	617	499	162
22	918	494	321	364	272	316	691	311	292	697	474	159
23	697	474	1,060	350	269	405	865	297	280	499	483	164
24	585	809	1,230	332	283	354	717	287	270	421	474	175
25	637	1,280	925	321	297	310	556	278	260	380	440	193
26	662	929	760	313	292	303	636	267	251	350	433	401
27	561	791	665	308	293	905	750	259	271	332	445	789
28	459	1,170	561	304	359	2,020	627	253	281	322	409	613
29	392	902	489	311	---	2,540	516	248	291	478	462	407
30	350	706	438	329	---	1,520	799	247	291	476	1,370	309
31	318	---	403	324	---	1,290	---	292	---	781	1,690	---
MEAN	438	695	578	467	369	530	1,562	522	452	530	758	323
MAX	2,090	1,280	1,230	1,250	721	2,540	6,350	1,970	1,160	1,370	1,690	1,030
MIN	186	281	310	304	269	234	430	247	251	256	409	159
IN.	2.46	3.78	3.25	2.63	1.88	2.98	8.51	2.93	2.46	2.98	4.26	1.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2005, BY WATER YEAR (WY)

MEAN	214	240	356	434	507	553	449	301	307	264	294	316
MAX	941	1,142	2,029	1,200	1,158	1,661	1,562	1,438	1,845	972	1,772	1,954
(WY)	(1976)	(1990)	(1954)	(1978)	(1962)	(1990)	(2005)	(1978)	(1970)	(2003)	(1975)	(1998)
MIN	63.9	67.8	74.2	96.8	154	86.1	100	77.6	74.4	71.7	75.6	65.9
(WY)	(2001)	(1956)	(1956)	(1955)	(1951)	(1955)	(1968)	(2002)	(2002)	(2000)	(1954)	(1954)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1950 - 2005	
ANNUAL MEAN	411		602		353	
HIGHEST ANNUAL MEAN					738	1975
LOWEST ANNUAL MEAN					131	2000
HIGHEST DAILY MEAN	4,950	Sep 17	6,350	Apr 2	23,900	Sep 29, 1998
LOWEST DAILY MEAN	119	Apr 21	159	Sep 22	58	Oct 29, 2000
ANNUAL SEVEN-DAY MINIMUM	119	Apr 20	168	Sep 18	58	Oct 28, 2000
MAXIMUM PEAK FLOW			6,640	Apr 2	26,500	Sep 29, 1998
MAXIMUM PEAK STAGE			16.29	Apr 2	25.68	Sep 29, 1998
INSTANTANEOUS LOW FLOW			156	Sep 22	57	Oct 29, 2000
ANNUAL RUNOFF (INCHES)	27.32		39.88		23.38	
10 PERCENT EXCEEDS	830		1,100		676	
50 PERCENT EXCEEDS	262		430		203	
90 PERCENT EXCEEDS	143		248		94	

02370500 BIG COLDWATER CREEK NEAR MILTON, FL

LOCATION.--Lat 30°42'30", long 86°58'20", in SW$^{1}/_{4}$ sec.5, T.2 N., R.27 W., Santa Rosa County, Hydrologic Unit 03140104, near center channel on downstream side of bridge on State Highway 191, 3 mi upstream from mouth, and 6.5 mi northeast of Milton.

DRAINAGE AREA.--237 mi^2

PERIOD OF RECORD.--October 1938 to June 1979, October 1979 to September 1980 (gage heights and discharge measurements only), October 1980 to September 1991, October 1997 to August 1999, May 2000 to current year. Monthly discharge only for some periods, published in WSP 1304. Records published as "Coldwater Creek near Milton" prior to October 1956, and "Big Coldwater River near Milton" October 1956 to September 1957.

REVISED RECORDS.--WSP 892: 1939. WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 9.10 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 2, 1938, nonrecording gage at same site and datum.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	477	564	1,070	614	579	619	4,150	2,440	705	498	847	890
2	465	544	1,040	594	790	547	e4,730	2,590	897	537	705	802
3	456	589	905	574	1,100	541	e3,340	1,510	902	638	612	758
4	448	1,260	778	559	1,190	634	e2,710	945	858	497	663	613
5	439	2,330	742	546	957	628	e1,480	816	713	454	812	535
6	431	1,710	1,020	542	728	557	e1,380	953	581	462	757	496
7	425	1,160	1,240	537	636	517	4,420	945	553	516	645	474
8	417	e800	1,540	779	591	523	e5,500	824	526	492	587	453
9	428	e690	1,420	1,250	573	520	e2,870	708	517	463	679	441
10	471	611	1,160	1,240	574	493	e1,380	658	530	770	606	430
11	571	767	965	975	551	472	e690	642	923	2,240	611	421
12	655	1,470	808	758	524	459	e640	616	2,450	2,650	670	411
13	615	1,550	722	729	511	451	e630	581	3,020	1,680	626	407
14	529	1,130	663	1,050	604	447	e670	556	1,630	1,140	543	402
15	485	862	617	1,220	754	448	e630	547	908	958	627	396
16	470	721	589	1,060	720	615	e660	581	667	868	827	393
17	449	650	573	804	613	998	e700	558	577	748	996	391
18	430	608	560	674	546	917	e740	525	533	671	1,330	387
19	445	589	551	620	511	692	e670	505	510	637	1,010	384
20	2,010	648	537	598	494	571	e620	492	484	604	722	381
21	4,630	749	524	587	488	542	e580	485	462	663	589	378
22	3,540	800	660	576	486	556	e950	475	450	717	547	378
23	1,750	872	1,540	556	488	548	e1,170	466	437	619	608	399
24	1,030	1,220	1,950	e540	525	529	e980	458	428	538	605	425
25	908	1,880	1,640	e520	573	497	e760	447	416	498	538	1,080
26	1,180	1,760	1,150	516	554	501	e850	438	409	475	525	2,110
27	1,050	1,410	933	513	543	733	e1,000	430	406	471	487	5,930
28	893	1,660	817	509	622	2,550	912	426	406	475	472	6,260
29	727	1,570	726	519	---	2,450	751	422	500	512	626	2,380
30	638	1,170	670	549	---	1,160	1,090	429	499	577	1,410	1,340
31	588	---	637	543	---	1,450	---	488	---	908	1,180	---
MEAN	905	1,078	927	698	637	747	1,588	741	763	773	725	1,018
MAX	4,630	2,330	1,950	1,250	1,190	2,550	5,500	2,590	3,020	2,650	1,410	6,260
MIN	417	544	524	509	486	447	580	422	406	454	472	378
IN.	4.40	5.08	4.51	3.40	2.80	3.64	7.48	3.60	3.59	3.76	3.53	4.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	422	459	524	599	640	742	627	487	575	542	549	582
MAX	1,325	1,278	1,383	1,422	1,159	2,240	1,588	1,209	2,526	1,404	2,476	2,435
(WY)	(1976)	(1976)	(1954)	(1978)	(1962)	(1990)	(2005)	(1991)	(1989)	(1940)	(1975)	(1988)
MIN	178	206	207	273	308	253	261	198	189	227	208	195
(WY)	(1969)	(1956)	(1956)	(1956)	(1957)	(1955)	(1968)	(2002)	(2002)	(2000)	(1956)	(1968)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL MEAN	757		883		560	
HIGHEST ANNUAL MEAN					883	2005
LOWEST ANNUAL MEAN					291	2002
HIGHEST DAILY MEAN	13,900	Sep 17	6,260	Sep 28	29,700	Mar 17, 1990
LOWEST DAILY MEAN	269	May 31	378	Sep 21	158	Jun 10, 1956
ANNUAL SEVEN-DAY MINIMUM	281	Apr 19	385	Sep 16	171	Oct 28, 1968
MAXIMUM PEAK FLOW			8,710	Sep 28	36,900	Mar 17, 1990
MAXIMUM PEAK STAGE			11.71	Sep 28	22.98	Mar 17, 1990
INSTANTANEOUS LOW FLOW			372	Sep 21	156	Jun 10, 1956
ANNUAL RUNOFF (INCHES)	43.47		50.58		32.13	
10 PERCENT EXCEEDS	1,330		1,520		902	
50 PERCENT EXCEEDS	518		620		413	
90 PERCENT EXCEEDS	314		448		259	

e Estimated

02370700 POND CREEK NEAR MILTON, FL

LOCATION.--Lat 30°40'50", long 87°07'55", in SE$^{1}/_{4}$ sec. 15, T.2 N., R.29 W., Santa Rosa County, Hydrologic Unit 03140104, near center of span on upstream side of bridge on State Highway 191, 0.6 mi downstream from Reader Creek, 6.4 mi northwest of Milton, and 10 mi upstream from mouth.

DRAINAGE AREA.--58.7 mi^2.

PERIOD OF RECORD.--January 1958 to July 1978; August 1978 to October 1983, 1992, 1993, 1997, 1998 (discharge measurements only); November 1999 to September 2002, October 2002 to September 2003 (fragmentary), October 2003 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 47.45 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for Aug. 28 to Sept. 22 and estimated daily discharges which are fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	51	79	67	75	68	963	399	139	71	181	189
2	60	52	85	66	99	62	711	271	169	71	186	125
3	60	62	73	64	125	65	290	190	125	90	e167	95
4	59	83	67	64	115	76	211	153	92	144	e206	85
5	58	103	72	64	85	68	162	127	94	79	240	82
6	58	84	115	65	72	62	219	123	84	78	239	81
7	58	60	119	63	69	61	1,040	109	99	90	195	78
8	57	56	94	76	67	68	464	99	83	76	169	76
9	59	54	88	104	66	64	255	95	89	80	156	79
10	75	53	81	99	66	59	195	92	83	171	182	78
11	97	87	74	74	63	58	160	90	172	372	153	77
12	88	134	68	70	62	57	285	88	317	341	126	76
13	71	109	66	78	62	56	243	85	242	225	95	74
14	61	71	64	120	78	56	195	83	155	173	98	71
15	59	61	62	125	87	57	151	104	110	163	91	e70
16	57	57	61	89	80	81	124	136	96	188	113	69
17	55	55	62	74	68	91	107	95	89	177	124	69
18	55	55	62	69	63	71	99	84	83	146	126	70
19	55	55	61	68	60	62	96	80	82	120	100	69
20	57	63	61	67	60	60	94	78	77	105	89	68
21	57	72	60	67	60	61	93	77	74	111	85	71
22	56	65	75	67	60	60	95	75	72	134	85	e71
23	54	72	171	65	60	59	127	74	70	152	88	e71
24	54	127	184	63	71	57	137	73	69	141	84	73
25	55	152	127	63	73	56	113	71	68	100	85	179
26	56	102	94	63	66	60	156	69	66	91	89	244
27	56	84	88	63	67	77	228	69	66	88	81	248
28	54	104	78	62	76	107	190	68	66	91	76	211
29	53	90	73	66	---	158	136	68	68	89	137	142
30	52	74	70	68	---	88	202	72	71	94	229	105
31	52	---	68	65	---	173	---	82	---	117	e247	---
MEAN	60.0	78.2	83.9	73.5	73.4	72.8	251	109	106	134	139	103
MAX	97	152	184	125	125	173	1,040	399	317	372	247	248
MIN	52	51	60	62	60	56	93	68	66	71	76	68
IN.	1.18	1.49	1.65	1.44	1.30	1.43	4.78	2.14	2.01	2.64	2.74	1.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY)

MEAN	67.1	65.1	71.0	77.1	79.0	81.3	84.6	67.1	83.4	74.1	80.0	82.0
MAX	151	158	130	189	143	145	251	149	275	164	224	212
(WY)	(1976)	(1976)	(1962)	(1978)	(1961)	(1977)	(2005)	(1978)	(1970)	(2003)	(1975)	(1960)
MIN	27.6	30.8	35.1	36.5	34.7	35.8	34.3	28.9	24.9	27.4	29.9	28.6
(WY)	(1969)	(1969)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1968)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005	
ANNUAL MEAN	68.1		107		77.2	
HIGHEST ANNUAL MEAN					125	1978
LOWEST ANNUAL MEAN					38.7	2002
HIGHEST DAILY MEAN	1,160	Sep 16	1,040	Apr 7	2,460	Sep 16, 1960
LOWEST DAILY MEAN	36	May 29	51	Nov 1	22	Jun 24, 2002
ANNUAL SEVEN-DAY MINIMUM	37	May 25	53	Oct 27	23	Jul 14, 2002
MAXIMUM PEAK FLOW			1,300	Apr 1	4,580	Jun 3, 1970
MAXIMUM PEAK STAGE			9.62	Apr 1	12.97	Jun 3, 1970
INSTANTANEOUS LOW FLOW			51	Oct 31	21	Jun 24, 2002
ANNUAL RUNOFF (INCHES)	15.78		24.76		17.86	
10 PERCENT EXCEEDS	95		183		117	
50 PERCENT EXCEEDS	54		78		65	
90 PERCENT EXCEEDS	40		59		37	

e Estimated

02375500 ESCAMBIA RIVER NEAR CENTURY, FL

LOCATION.--Lat 30° 57'53", long 87° 14'10", in NW1/4 sec. 10, T. 5 N., R. 30 W., Santa Rosa County, Hydrologic Unit 03140305, on downstream side near center of main channel at bridge on State Highway 4, 1.2 mi downstream from Escambia Creek, 1.7 mi east of Century, and 52 mi upstream from mouth.

DRAINAGE AREA.--3,817 mi^2.

PERIOD OF RECORD.--October 1934 to current year.

REVISED RECORDS.-- WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 28.34 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Jan. 13, 1940, nonrecording gage at site 400 ft upstream at same datum. Jan. 13, 1940 to Oct. 21, 1993, water-stage recorder at site 400 ft upstream at same datum.

REMARKS.--Records fair. Some gage-height fluctuation during periods of low flow are attributed to regulation by power plants at Point-A Dam, 85.4 mi and Gnatt Dam, 90.1 mi upstream from the gaging station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1850, 37.8 ft, March 1929, present datum, discharge not determined, from information by U.S. Army Corps of Engineers, Mobile District.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,730	5,240	12,300	6,500	6,100	6,430	24,200	14,600	3,490	2,700	5,930	10,900
2	3,940	4,720	11,900	e6,200	7,360	6,180	e36,000	19,100	5,780	2,970	6,450	10,600
3	3,690	8,190	11,200	6,060	9,440	6,040	45,600	17,700	7,550	2,890	7,200	9,430
4	3,150	e14,000	9,980	e5,850	11,000	6,250	47,700	13,300	8,560	3,130	7,280	7,500
5	3,330	e15,600	8,610	e5,550	11,500	6,340	47,100	10,000	8,250	3,240	7,670	5,840
6	3,130	e13,900	9,410	e5,700	11,500	5,770	47,500	8,650	6,560	3,650	9,290	5,100
7	2,900	e11,900	10,600	5,640	10,500	5,240	54,200	8,230	5,000	4,540	12,500	4,300
8	3,070	e10,100	e11,400	7,260	9,350	4,960	57,700	7,570	4,240	4,610	14,500	3,890
9	2,690	8,400	e11,600	8,690	8,650	4,890	55,100	6,380	3,960	4,720	12,300	3,570
10	2,870	7,200	e11,700	8,680	8,350	4,570	48,100	5,700	3,930	4,670	9,800	3,370
11	3,340	6,910	e11,400	e7,640	8,770	4,310	41,600	5,550	5,420	9,910	10,400	3,210
12	3,550	8,480	e10,900	6,970	8,800	4,370	37,100	5,050	10,300	15,300	10,900	3,030
13	3,630	9,710	e10,000	6,820	8,740	4,250	33,800	4,550	12,200	18,000	10,300	2,790
14	3,410	9,360	e8,800	9,950	8,490	4,140	30,500	4,380	11,400	16,200	10,200	2,650
15	3,080	8,550	7,730	12,100	9,010	3,910	27,800	4,190	10,100	15,100	9,780	2,520
16	3,000	7,470	7,240	12,600	8,940	4,660	25,000	4,130	8,160	15,200	9,160	2,460
17	2,870	6,660	6,590	12,000	8,400	6,150	20,200	3,890	6,010	16,000	9,230	2,470
18	2,920	6,040	6,160	10,800	7,540	6,230	14,500	3,610	4,760	15,100	9,190	2,320
19	4,860	5,560	5,690	9,330	6,720	6,110	11,000	3,590	4,020	13,300	8,710	2,260
20	19,600	5,410	5,570	8,420	6,360	5,670	9,030	3,480	3,690	11,700	8,580	2,240
21	21,400	6,950	5,450	7,480	5,990	5,650	7,960	3,250	3,440	10,700	8,020	2,250
22	13,500	7,480	5,470	6,900	5,640	6,050	8,240	3,250	3,230	9,700	7,580	e3,200
23	9,930	7,470	9,580	6,220	5,580	5,870	9,090	3,290	2,900	8,580	7,470	e4,200
24	8,190	e7,840	12,000	5,690	5,470	6,040	8,730	3,090	2,650	7,570	7,800	e4,500
25	8,240	e10,600	12,300	5,330	5,440	5,650	8,020	2,880	2,550	6,630	7,240	e4,700
26	10,300	11,600	11,900	5,190	5,300	5,900	8,100	2,720	2,400	5,660	6,630	e5,300
27	10,200	12,800	10,900	5,030	5,320	9,270	8,490	2,610	2,270	4,890	6,170	e7,800
28	9,410	14,000	9,610	4,980	5,880	13,100	8,890	2,570	2,170	4,440	5,540	e18,000
29	8,270	13,700	8,460	4,900	---	15,900	8,560	2,490	2,120	4,490	4,910	e22,500
30	7,120	12,900	7,630	5,310	---	16,400	9,010	2,420	2,250	5,110	6,970	e21,800
31	6,070	---	7,160	5,640	---	16,200	---	2,450	---	5,760	9,300	---
MEAN	6,303	9,291	9,330	7,272	7,862	6,855	26,630	5,957	5,312	8,273	8,613	6,157
MAX	21,400	15,600	12,300	12,600	11,500	16,400	57,700	19,100	12,200	18,000	14,500	22,500
MIN	2,690	4,720	5,450	4,900	5,300	3,910	7,960	2,420	2,120	2,700	4,910	2,240
IN.	1.90	2.72	2.82	2.20	2.15	2.07	7.79	1.80	1.55	2.50	2.60	1.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2005, BY WATER YEAR (WY)

MEAN	3,039	3,327	5,617	8,317	10,010	12,690	11,020	5,741	4,485	4,220	4,058	3,324
MAX	24,310	14,740	24,600	31,530	21,160	34,210	31,430	19,520	22,500	20,850	23,560	12,010
(WY)	(1999)	(1949)	(1954)	(1936)	(1965)	(2001)	(1980)	(1978)	(1970)	(1994)	(1975)	(1975)
MIN	558	1,033	1,157	1,895	2,596	1,783	2,068	890	828	687	775	693
(WY)	(2001)	(1955)	(1955)	(1956)	(1989)	(1955)	(2000)	(2000)	(2000)	(2000)	(2000)	(1968)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1935 - 2005	
ANNUAL MEAN	6,947		8,966		6,301	
HIGHEST ANNUAL MEAN					11,690	1975
LOWEST ANNUAL MEAN					1,820	2000
HIGHEST DAILY MEAN	40,000	Sep 18	57,700	Apr 8	106,000	Sep 30, 1998
LOWEST DAILY MEAN	1,400	Aug 9	2,120	Jun 29	455	Nov 1, 2000
ANNUAL SEVEN-DAY MINIMUM	1,630	Aug 4	2,340	Jun 24	457	Oct 29, 2000
MAXIMUM PEAK FLOW			58,400	Apr 8	117,000	Sep 30, 1998
MAXIMUM PEAK STAGE			20.24	Apr 8	24.35	Mar 18, 1990
INSTANTANEOUS LOW FLOW			2,100	Jun 29	452	Oct 31, 2000
ANNUAL RUNOFF (INCHES)	24.78		31.89		22.43	
10 PERCENT EXCEEDS	12,400		14,500		14,200	
50 PERCENT EXCEEDS	5,060		7,160		3,740	
90 PERCENT EXCEEDS	2,390		3,090		1,360	

e Estimated

02376033 ESCAMBIA RIVER NEAR MOLINO, FL

LOCATION.--Lat 30°40'12", long 87°16'00", in SE$^{1}/_{4}$ sec. 20, T. 2 N., R. 20 W., Escambia County, Hydrologic Unit 03140305, near right bank on downstream side of bridge on State Highway 184, 4.1 mi northeast of Cottage Hill, and 5.5 mi southeast of Molino.

DRAINAGE AREA.--4,147 mi^2.

PERIOD OF RECORD.--April 1960 to September 1981 (gage heights and discharge measurements only). October 1983 to September 1987 (Daily discharges not computed for days with instantaneous gage heights below 1.5 ft), October 1987 to September 1994, October 1996 to current year.

GAGE.--Water-stage and water-current meter recorders. Elevation of gage is National Geodetic Vertical Datum of 1929. Since May 17, 2000, water-current meter.

REMARKS.--Records poor. Flow generally affected by tide when discharge is less than 5,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,680	10,000	19,800	10,000	5,180	4,950	24,300	14,000	3,250	2,910	7,510	11,300
2	5,930	8,460	19,800	8,680	6,360	4,960	24,300	14,300	3,610	3,140	7,840	12,100
3	4,260	7,440	19,100	7,560	7,630	5,700	27,500	16,100	4,260	3,440	8,220	14,200
4	3,970	7,890	18,000	6,600	9,340	6,420	35,000	19,100	6,630	3,540	9,060	15,400
5	3,870	9,010	17,300	6,030	11,700	6,510	40,400	19,100	8,680	3,570	10,300	15,200
6	3,800	14,300	17,000	5,660	13,800	6,310	41,300	18,000	10,200	3,680	10,900	14,000
7	3,740	20,700	15,100	5,200	15,200	6,400	43,000	15,400	11,100	3,970	11,500	12,000
8	3,650	22,100	14,000	5,330	15,400	6,470	44,200	13,500	10,700	3,930	12,600	9,870
9	3,600	20,200	15,000	5,520	14,600	5,300	48,800	12,100	8,670	4,250	14,000	7,740
10	3,730	17,000	14,100	6,670	12,800	4,320	49,500	10,900	6,520	6,280	16,400	5,540
11	3,730	13,700	14,000	9,150	11,400	3,930	46,200	9,620	6,830	11,100	17,400	4,200
12	3,710	11,600	14,700	10,200	10,800	3,780	42,400	8,130	9,440	10,700	16,800	3,930
13	3,780	10,400	13,900	9,960	10,800	3,820	37,600	6,960	9,660	12,300	e15,100	3,800
14	3,790	10,600	13,600	9,540	11,700	3,810	33,500	6,120	11,800	17,000	e15,600	3,650
15	3,790	11,000	13,200	8,980	11,800	3,760	30,900	5,310	14,200	21,700	e15,700	3,460
16	3,750	11,100	11,800	10,200	11,300	3,890	28,800	4,480	14,900	23,200	e15,000	3,330
17	3,630	10,900	10,500	13,300	11,200	3,850	26,100	4,090	14,500	22,700	e14,800	3,210
18	3,480	9,920	9,240	15,500	11,100	3,810	24,100	4,030	13,400	22,100	14,400	3,150
19	3,450	8,630	8,240	15,700	10,500	4,530	21,300	3,950	11,000	21,500	14,100	3,100
20	3,480	7,580	6,790	14,600	9,450	5,610	18,400	3,820	7,970	21,100	13,800	2,990
21	3,830	6,670	5,970	13,200	8,540	5,970	15,800	3,700	5,200	20,000	13,500	2,940
22	10,000	6,120	6,230	11,600	7,630	6,120	13,900	3,610	4,010	18,500	13,200	2,900
23	19,600	7,280	8,020	10,100	6,780	6,080	12,900	3,510	3,830	17,600	12,800	3,120
24	19,100	9,170	8,000	8,710	6,650	5,600	11,900	3,450	3,620	16,100	12,300	3,250
25	15,800	10,200	10,600	7,660	6,000	5,700	11,600	3,410	3,340	14,900	12,000	3,380
26	13,000	10,400	14,100	6,930	5,490	5,660	12,300	3,280	3,170	13,700	11,700	3,980
27	11,300	12,100	16,100	6,000	5,600	6,850	12,500	3,160	3,020	12,200	11,300	5,170
28	11,400	15,000	16,000	5,310	5,720	7,750	11,600	2,990	2,880	10,500	11,100	9,010
29	12,200	17,800	14,900	5,320	---	8,990	11,300	2,920	2,830	8,670	14,200	17,700
30	12,200	19,400	13,200	5,160	---	12,800	12,500	2,920	2,800	7,550	16,400	21,600
31	11,400	---	11,400	4,830	---	17,400	---	2,980	---	7,440	12,800	---
MEAN	7,150	11,890	13,220	8,684	9,802	6,034	27,130	7,901	7,401	11,910	12,980	7,507
MAX	19,600	22,100	19,800	15,700	15,400	17,400	49,500	19,100	14,900	23,200	17,400	21,600
MIN	3,450	6,120	5,970	4,830	5,180	3,760	11,300	2,920	2,800	2,910	7,510	2,900
IN.	1.99	3.20	3.68	2.41	2.46	1.68	7.30	2.20	1.99	3.31	3.61	2.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	4,853	5,030	6,528	9,234	10,050	14,700	9,126	5,385	6,155	7,373	4,653	4,710
MAX	32,570	11,890	18,920	24,210	19,080	37,410	27,130	14,530	19,160	22,110	13,090	13,570
(WY)	(1999)	(2005)	(1993)	(1998)	(1992)	(1990)	(2005)	(1991)	(1989)	(1994)	(2003)	(2004)
MIN	803	1,867	2,212	3,126	2,650	4,462	2,785	1,444	1,357	1,168	1,266	1,335
(WY)	(2001)	(2002)	(1991)	(1989)	(1989)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL MEAN	8,215		10,950		7,305	
HIGHEST ANNUAL MEAN					11,440	2003
LOWEST ANNUAL MEAN					2,433	2000
HIGHEST DAILY MEAN	38,700	Sep 21	49,500	Apr 10	111,000	Mar 22, 1990
LOWEST DAILY MEAN	977	Sep 16	2,800	Jun 30	581	Nov 6, 2000
ANNUAL SEVEN-DAY MINIMUM	2,080	Aug 5	2,960	Jun 26	653	Oct 24, 2000
MAXIMUM PEAK FLOW			54,800	Apr 10	113,000	Mar 23, 1990
MAXIMUM PEAK STAGE			11.36	Apr 10	15.72	Mar 23, 1990
ANNUAL RUNOFF (INCHES)	26.97		35.85		23.93	
10 PERCENT EXCEEDS	17,000		19,100		16,700	
50 PERCENT EXCEEDS	6,080		10,000		4,400	
90 PERCENT EXCEEDS	2,830		3,610		1,870	

e Estimated

02376100 BAYOU MARCUS CREEK NEAR PENSACOLA, FL

LOCATION.--Lat 30°26'53", long 87°17'26", in SE$^{1}/_{4}$ sec.13, T.2 S., R.30 W., Escambia County, Hydrologic Unit 03140107, near mid channel on downstream side of eastbound bridge on U.S. Highway 90, 0.3 mi upstream from Turner's Creek, 4.5 mi upstream, and 5.3 mi northwest of City Hall in Pensacola.

DRAINAGE AREA.--10.8 mi^2.

PERIOD OF RECORD.--February 1958 to March 1960, October 1987 to September 1991, October 1998 to current year.

REVISED RECORDS.--WDR FL-88-4: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 11.21 ft above National Geodetic Vertical Datum of 1929. Feb. 12, 1958 to Mar. 17, 1960, water-stage recorder 100 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Records good, except those above 170 ft^3/s which are fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	15	23	22	41	21	572	140	105	73	47	44
2	22	16	20	22	57	19	180	68	60	40	85	38
3	21	17	19	22	54	25	82	49	44	32	53	35
4	20	30	19	22	32	27	56	42	43	29	56	33
5	19	22	70	22	26	21	43	40	41	29	63	33
6	18	17	122	22	23	19	127	50	41	52	38	31
7	18	16	53	22	22	20	318	42	41	46	33	31
8	18	16	35	29	22	27	103	38	33	32	31	30
9	19	15	29	29	22	21	66	35	31	29	29	30
10	74	15	26	24	22	19	52	35	35	172	27	30
11	77	148	23	23	19	17	45	35	111	215	29	30
12	41	105	21	22	20	17	276	34	89	85	33	29
13	28	40	21	38	20	17	129	32	45	54	54	30
14	23	27	20	51	41	17	76	31	36	54	56	29
15	24	22	18	31	28	20	55	32	33	67	40	29
16	22	20	19	25	23	50	47	33	33	68	58	28
17	20	18	19	22	22	31	42	31	32	44	43	28
18	19	18	19	21	19	21	41	30	37	36	55	28
19	19	19	20	21	19	19	40	30	33	34	33	28
20	19	20	19	21	19	19	41	31	29	32	46	28
21	23	21	19	21	19	18	41	29	27	31	106	34
22	27	20	66	21	20	19	39	28	26	37	99	43
23	21	43	125	21	22	18	80	29	26	30	58	32
24	20	71	48	19	27	16	53	28	25	28	55	39
25	19	55	32	19	32	16	40	27	25	27	42	53
26	18	28	35	20	23	34	120	26	24	27	36	172
27	17	35	28	20	27	74	67	26	24	28	33	125
28	16	30	25	21	25	33	44	26	25	29	33	63
29	16	22	24	31	---	21	40	28	76	34	82	45
30	16	21	23	27	---	19	132	36	117	43	106	36
31	16	---	22	22	---	85	---	50	---	34	60	---
MEAN	24.2	32.1	34.3	24.3	26.6	25.8	102	38.4	44.9	50.7	52.2	42.1
MAX	77	148	125	51	57	85	572	140	117	215	106	172
MIN	16	15	18	19	19	16	39	26	24	27	27	28
IN.	2.59	3.31	3.66	2.59	2.57	2.76	10.50	4.10	4.64	5.41	5.58	4.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY)

MEAN	27.6	26.4	25.2	25.6	26.2	29.0	30.1	24.0	27.3	31.8	29.6	33.2
MAX	49.9	48.6	39.5	40.8	51.5	46.3	102	43.6	46.9	55.4	52.2	61.8
(WY)	(1959)	(1959)	(1959)	(1959)	(1988)	(1958)	(2005)	(1991)	(1989)	(1958)	(2005)	(1988)
MIN	9.08	9.84	11.9	12.4	11.1	12.2	10.1	6.09	4.67	7.95	9.78	12.8
(WY)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2000)	(2000)	(2001)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005	
ANNUAL MEAN	25.7		41.4		26.8	
HIGHEST ANNUAL MEAN					41.8	1959
LOWEST ANNUAL MEAN					11.6	2002
HIGHEST DAILY MEAN	931	Sep 16	572	Apr 1	931	Sep 16, 2004
LOWEST DAILY MEAN	8.2	May 30	15	Nov 1	3.0	Jun 13, 2002
ANNUAL SEVEN-DAY MINIMUM	8.7	May 24	16	Oct 27	3.6	Jun 11, 2002
MAXIMUM PEAK FLOW			738	Apr 1	1,500	Sep 16, 2004
MAXIMUM PEAK STAGE			8.34	Apr 1	8.34	Apr 1, 2005
INSTANTANEOUS LOW FLOW			14	Nov 1	2.3	Jun 13, 2002
ANNUAL RUNOFF (INCHES)	32.46		52.06		33.66	
10 PERCENT EXCEEDS	37		73		44	
50 PERCENT EXCEEDS	18		30		22	
90 PERCENT EXCEEDS	13		19		9.4	

02376293 BRUSHY CREEK NEAR BRATT, FL

LOCATION.--Lat 30°58'42", long 87°31'41", in SE$^{1}/_{4}$ sec. 3, T. 5 N., R. 5 E., Escambia County, Hydrologic Unit 03140106, at bridge on Nokomis Road, 0.8 mi downstream from Rocky Creek, 1.4 mi below Alabama-Florida State Line, 2.1 mi upstream from Reedy Creek, and 6.0 mi west of Bratt.

DRAINAGE AREA.--26.5 mi^2.

PERIOD OF RECORD.--October 1998 to September 2002, October 2002 to September 2003 (fragmentary), October 2003 to current year.

REVISED RECORDS.--WDR FL-03-4: 2002.

GAGE.--Water-stage recorder. Elevation of gage is National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge measured, 3,070 ft^3/s, Sept. 29, 1998, gage height, 184.11 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	29	81	45	109	37	564	344	214	17	54	294
2	28	141	62	42	191	32	375	144	59	16	45	152
3	28	357	49	40	186	51	167	67	175	58	43	60
4	28	399	44	41	103	57	81	50	52	43	97	46
5	27	247	79	41	61	37	59	43	33	59	102	40
6	27	109	258	44	49	33	125	40	30	125	53	38
7	30	64	150	44	44	31	1,060	38	29	129	42	37
8	28	50	116	213	42	32	295	36	27	27	37	36
9	28	43	160	234	47	30	161	34	56	e20	34	36
10	64	39	270	93	48	29	94	34	62	e569	76	35
11	79	76	120	64	39	29	70	35	196	e1,570	51	33
12	38	92	65	55	36	28	215	33	340	293	39	34
13	31	63	53	104	36	28	182	30	135	138	35	33
14	28	50	46	294	64	29	82	29	64	123	32	33
15	27	42	41	143	49	29	62	30	32	303	38	33
16	26	37	40	72	41	106	52	29	24	320	83	33
17	25	35	40	55	37	61	47	28	21	266	71	33
18	25	34	40	47	34	38	44	28	21	137	71	33
19	1,180	40	39	45	33	32	43	28	20	69	38	32
20	1,400	75	38	45	32	31	42	27	19	54	32	32
21	256	143	38	43	33	40	42	28	18	49	30	32
22	126	68	105	42	32	34	70	27	17	46	31	33
23	67	50	385	40	33	34	216	26	17	42	31	43
24	49	163	210	38	40	29	91	26	17	38	30	53
25	42	287	96	38	43	30	51	25	16	36	29	390
26	39	109	77	39	36	59	73	25	16	43	28	441
27	35	116	61	38	44	378	58	24	16	36	27	387
28	33	304	53	37	50	236	43	24	16	36	27	139
29	31	139	49	41	---	80	40	24	20	97	141	64
30	31	74	48	42	---	48	216	29	20	304	262	52
31	30	---	46	37	---	45	---	112	---	125	97	---
MEAN	126	116	95.5	70.8	56.9	57.8	157	48.3	59.4	167	58.3	91.2
MAX	1,400	399	385	294	191	378	1,060	344	340	1,570	262	441
MIN	25	29	38	37	32	28	40	24	16	16	27	32
IN.	5.50	4.88	4.15	3.08	2.23	2.52	6.63	2.10	2.50	7.28	2.54	3.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	51.4	45.6	44.8	41.9	47.4	55.1	53.6	25.7	46.1	55.9	30.8	60.3
MAX	126	116	95.5	70.8	119	94.9	157	48.3	82.6	167	58.3	171
(WY)	(2005)	(2005)	(2005)	(2005)	(2004)	(2001)	(2005)	(2005)	(1999)	(2005)	(2005)	(2004)
MIN	12.0	19.5	21.5	23.4	19.6	20.3	20.9	13.8	15.5	15.2	13.1	14.2
(WY)	(2001)	(2002)	(2002)	(2002)	(2001)	(2000)	(2002)	(2001)	(2000)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	75.9		92.2		46.1	
HIGHEST ANNUAL MEAN					92.2	2005
LOWEST ANNUAL MEAN					20.8	2000
HIGHEST DAILY MEAN	3,370	Sep 16	1,570	Jul 11	3,370	Sep 16, 2004
LOWEST DAILY MEAN	21	May 29	16	Jun 25	10	Jun 4, 2001
ANNUAL SEVEN-DAY MINIMUM	22	May 24	16	Jun 22	12	May 20, 2001
MAXIMUM PEAK FLOW			6,770	Oct 19	6,770	Oct 19, 2004
MAXIMUM PEAK STAGE			185.77	Oct 19	185.77	Oct 19, 2004
INSTANTANEOUS LOW FLOW			16	Jun 23	10	May 27, 2001
ANNUAL RUNOFF (INCHES)	38.99		47.25		23.63	
10 PERCENT EXCEEDS	138		214		70	
50 PERCENT EXCEEDS	32		43		26	
90 PERCENT EXCEEDS	24		27		16	

e Estimated

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage and flood-hydrograph 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.

Crest-stage and flood-hydrograph partial-record stations

The following table contains annual maximum discharges for crest-stage and flood hydrograph stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A flood hydrograph station is a continual-record station that records the river stage of storm events above a base stage. 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 stations

Station No.	Station Name	Location	Drainage area (mi^2)	Period of Record	Annual Maximum		
					DATE	Gage height (feet)	Discharge (ft^3/s)
		OCKLAWAHA RIVER BASIN					
02240934	Unnamed Sink Drain near Flemington, FL	Lat 29° 24′ 15″, long 82° 20′ 30″, in SE¼ sec. 30, T. 12 S., R. 20 E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 318, 2.7 mi west of Flemington, and 6.2 mi southeast of Williston.	0.14	1996-05	10-14-04	3.04	a
		ST. JOHNS RIVER BASIN BELOW OCKLAWAHA RIVER					
02245449	South Fork Black Creek Tributary near Penny Farms, FL	Lat 29° 58′ 41″, long 81° 52′ 52″, in NE¼ sec. 15, T. 6 S., R. 24 E., Clay County, Hydrologic Unit 03080103, at upstream side of culvert on State Road 16, 1.0 mi east of junction with State Road 21, and 4.4 mi west of Penny Farms.	0.32	1996-05	03-27-05	1.98	74
022455734	Bull Creek Tributary near Middleburg, FL	Lat 30° 00′ 44″, long 81° 55′ 52″, in SW¼ sec. 32, T. 5 S., R. 24 E., Clay County, Hydrologic Unit 03080103, at upstream side of culvert on County Road 215, 2.9 mi south of junction with State Road 21, 3.5 mi north of junction of County Road 215 with State Road 16, and 5.4 mi southwest of Middleburg.	0.16	1996-05	03-27-05	2.29	51
02245606	Calf Branch Tributary near Middleburg, FL	Lat 30° 01′ 21″, long 81° 53′ 53″, in NE¼ sec. 33, T. 5 S., R. 24 E., Clay County, Hydrologic Unit 03080103, at upstream side of culvert on State Road 21, 0.7 mi south of junction with County Road 215, 3.1 mi southwest of Middleburg, and 3.6 mi north of junction of State Road 21 with State Road 16.	0.21	1996-05	03-27-05	2.35	55

Station No.	Station Name	Location	Drainage area (mi^2)	Period of Record	Annual Maximum		
					DATE	Gage height (feet)	Discharge (ft^3/s)
		WITHLACOOCHEE RIVER BASIN					
02312522	Trailer Park Drain near Brooksville, FL	Lat 28° 30′ 18″, long 82° 22′ 14″, in NW¼ sec. 12, T. 23 S., R. 19 E., Hernando County, HydroIogic Unit 03100208, at upstream side of culvert on County Road 581, and 3.9 mi southeast of Court House at Brooksville.	0.21	1996-05	07-21-05	2.43	a
		SUWANNEE RIVER BASIN ABOVE WITHLACOOCHEE RIVER					
02315534	Rocky Creek Tributary near Wellborn, FL	Lat 30° 18′ 51″, long 82° 49′ 50″, in SE¼ sec. 17, T. 2 S., R. 15 E., Suwannee County, Hydrologic Unit 03110201, at bridge on County Road 136, 5.3 mi northwest of Houston, 5.5 mi west of White Springs, and 6.0 mi northwest of Wellborn.	1.2	1969-75 1996-97 1999-05	03-25-05	6.66	183
		SANTA FE RIVER BASIN					
02320978	New River Tributary near Raiford, FL	Lat 30° 02′ 49″, long 82° 15′ 58″, in SE¼ sec. 23, T. 5 S., R. 20 E., Union County, HydroIogic Unit 03110206, at upstream side of culvert at County Road 237, 0.2 mi south of State Road 121,1.3 mi southwest of Raiford, and 3.9 mi northeast of the junction of State Roads 121 and 100 at Lake Butler.	0.31	1996-05	03-26-05	2.41	a
02321527	Tributary To Santa Fe River Tributary near Worthington Springs, FL	Lat 29° 56′ 43″, long 82° 28′ 08″, in NW¼ sec. 25, T. 6 S., R. 18 E., Union County, HydroIogic Unit 03110206, at upstream side of culvert at State Road 18, 2.6 mi west of State Road 121, and 2.9 mi northwest of Worthington Springs.	0.27	1996-05	05-07-05	2.58	40
02322050	Shiloh Run near Alachua, FL	Lat 29° 49′ 06″, long 82° 28′ 21″, in SW¼ sec. 1, T. 8 S., R. 18 E., Alachua County, HydroIogic Unit 03110206, 6 ft upstream from culvert on County Road 239, 0.7 mi above mouth, and 2.8 mi southeast of Alachua.	0.32	1996-05		<1.00	<20
		ST. MARKS AND WAKULLA RIVERS AND COASTAL AREA					
02326574	Ward Creek Tributary near Monticello, FL	Lat 30° 38′ 21″, long 83° 50'37″, in SE¼ sec. 20, T. 3 N., R. 5 E., Jefferson County, Hydrologic Unit 03120001, at upstream side of culvert on County Road 58, 1.8 mi east of U.S. Highway 19, and 6.2 mi north of Monticello.	0.08	1996-05	07-10-05	1.21	13
02326595	Halls Run near Miccosukee, FL	Lat 30° 37′ 01″, long 84° 02′ 28″, in NW¼ sec. 33, T. 3 N., R. 3 E., Leon County, Hydrologic Unit 03120001, at upstream side of culvert on State Road 59, and 1.5 mi north of Miccosukee.	0.11	1996-05	04-10-05	2.92	34

Station No.	Station Name	Location	Drainage area (mi^2)	Period of Record	Annual Maximum		
					DATE	Gage height (feet)	Discharge (ft^3/s)
		OCHLOCKONEE RIVER BASIN					
02329354	Attapulgus Creek Tributary near Jamieson, FL	Lat 30° 39′ 42″, long 84° 28′ 39″, in NW¼ sec. 18, T. 3 N., R. 2 W., Gadsden County, Hydrologic Unit 03120003, at upstream side of culvert on State Road 161, 0.3 mi south of State Road 159, 1.6 mi west of Jamieson, and 4.5 mi north of Havana.	1.03	1996-05	03-26-05	4.67	311
02329559	Littman Branch near Quincy, Fl	Lat 30° 35′ 32″, long 84° 31′ 08″, in NE¼ sec. 10, T. 2 N., R. 3 W., Gadsden County, Hydrologic Unit 03120003, at upstream side of culvert on State Road 12, and 3.8 mi east of the city hall in Quincy.	0.20	1996-05	03-26-05	2.27	45
		APALACHICOLA RIVER BASIN					
02356510	South Mosquito Creek Tributary near Hardaway, FL	Lat 30° 39′ 11″, long 84° 43′ 58″, in SW ¼ sec. 15, T. 3 N., R. 5 W., Gadsden County, Hydrologic Unit 03130011, at upstream side of culvert on County Road 379B, 0.9 mi south of railroad crossing at County Road 379B, and 1.4 mi north of Hardaway.	0.20	1996-05	07-10-05	4.88	28
		CHIPOLA RIVER BASIN					
02358946	Mockingbird Run near Cypress, FL	Lat 30° 39′ 41″, long 85° 06′ 48″, in NW¼ sec. 14, T. 3 N., R. 9 W., Jackson County, Hydrologic Unit 03130012, at upstream side of culvert on County Road 264A, 4.3 mi south of Cypress, and 5.5 mi southeast of Oakdale.	0.58	1996-05	09-17-05	3.61	137
		PEA RIVER BASIN					
02364806	Poplar Branch near Leonia, FL	Lat 30° 57′ 07″, long 85° 58′ 15″, in NE¼ sec. 7, T. 6 N., R. 17 W., Holmes County, Hydrologic Unit 03140202, at upstream side of culvert on County Road 185, 2.3 mi southeast of Royals Crossroads, and 4.0 mi northwest of Leonia.	0.54	1996-05	04-01-05	2.80	144
		CHOCTAWHATCHEE RIVER BELOW PEA RIVER					
02365408	Poplar Springs Branch near Noma, FL	Lat 30° 57′ 52″, long 85° 34′ 16″, in SE¼ sec. 31, T. 7 N., R. 13 W., Holmes County, Hydrologic Unit 03140203, at upstream side of culvert on State Road 2, 3.0 mi east of Noma, and 3.2 mi west of Graceville.	0.08	1996-05	04-01-05	2.87	36

Station No.	Station Name	Location	Drainage area (mi^2)	Period of Record	Annual Maximum		
					DATE	Gage height (feet)	Discharge (ft^3/s)
		CHOCTAWHATCHEE RIVER BASIN					
02365715	Camp Branch Tributary near Redbay, FL	Lat 30° 38′ 45″, long 85° 56′ 13″, in SE¼ sec. 21, T. 3 N., R. 17 W., Walton County, Hydrologic Unit 03140203, at upstream side of culvert on State Road 81, 3.8 mi north of Redbay, and 4.6 mi south of U.S. Highway I-10 interchange at State Road 81.	0.90	1995-05	04-07-05	6.57	460
		SHOAL RIVER BASIN					
02368329	Caney Creek Tributary No. 1 near Paxton, FL	Lat 30° 55′ 39″, long 86° 13′ 17″, in SW¼ sec. 14, T. 5 N., R. 20 W., Walton County, Hydrologic Unit 03140103, on upstream side of culvert on County Road 0605, 2.1 mi north of the community of Caney Creek, and 5.7 mi southeast of Paxton.	0.11	1996-05	04-01-05	4.00	76
		BLACKWATER RIVER BASIN					
02370370	Manning Creek Tributary at Berrydale, FL	Lat 30° 53′ 58″, long 87° 01′ 20″, in NW¼ sec. 35, T. 5 N., R. 28 W., Santa Rosa County, Hydrologic Unit 03140104, at upstream side of culvert on State Road 4, 0.5 mi west of Berrydale, and 0.9 mi southeast of State Road 87.	1.24	1996-05	08-29-05	4.63	557
		PERDIDO RIVER BASIN					
02376315	Buckeye Branch Tributary near Walnut Hill, FL	Lat 30° 51′ 15″, long 87° 30′ 54″, in NW¼ sec. 23, T. 4 N., R. 33 W., Escambia County, Hydrologic Unit 03140106, at upstream side of culvert on County Road 97A, and 2.1 mi south of Walnut Hill.	0.34	1995-05	07-10-05	5.58	174

a Discharge not determined
b Discontinued

ELEVATION OF LAKES

02329900 LAKE TALQUIN NEAR BLOXHAM, FL

LOCATION.--Lat 30° 23'15", long 84° 38'45", in SW^1/4 sec. 16, T.1 S., R.4 W., Leon County, Hydrologic Unit 03120003, at left upstream end of C.H. Corn Hydroelectric Dam on Ochlockonee River, 1.0 mi northwest of Bloxham, and 3.5 mi downstream from Oklawaha Creek.

SURFACE AREA.--6,850 acres (10.7 mi^2), at elevation 60.0 ft National Geodetic Vertical Datum of 1929, from data provided by Florida Power Corporation.

DRAINAGE AREA.--1,700 mi^2.

PERIOD OF RECORD.--January 1930 to September 1950 (month-end contents only, published only in WSP 1304); October 1951 to September 1960 (month-end elevations and contents); October 1960 to September 1982, March 1985 to September 1992 (month-end elevations, contents and daily elevations); October 1992 to current year, daily elevations.

REVISED RECORDS.--WSP 1905, WRD FL-76-4: Drainage area.

GAGE.--Nonrecording gage and water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

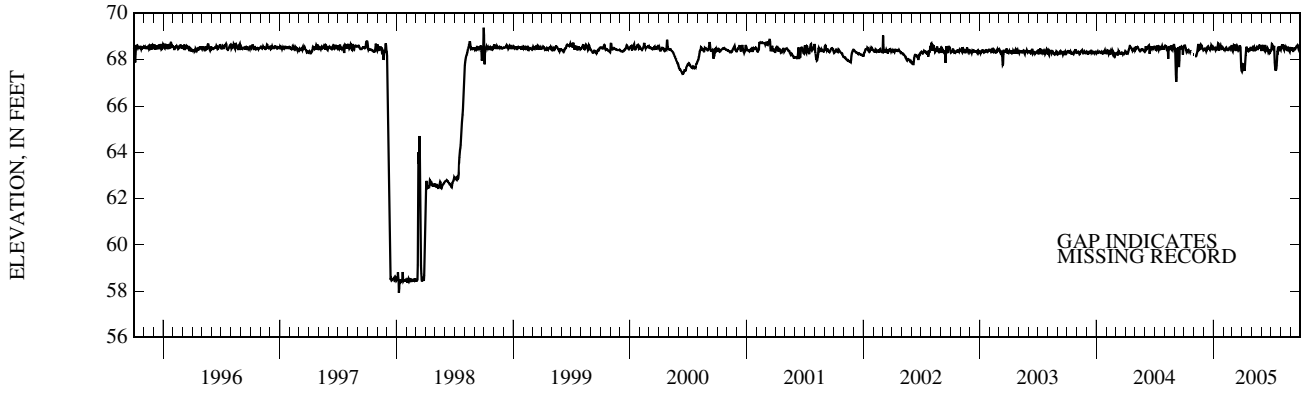
REMARKS.--Records good, except for Oct. 1 to Dec. 17 which are poor. Reservoir is formed by concrete dam with riprapped earth embankments. Spillway is equipped with seven taintor gates, each 16ft high by 25 ft wide. Storage began in June 1929; water in lake first reached minimum operating level January 1930. Usable capacity, 69,800 acre-ft between elevations, 60.0 ft, minimum operating level, and 68.5 ft, top of closed taintor gates. Dead storage is unknown. Contents are available by request.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 99,400 acre-ft, Sept. 22, 1969, elevation, 71.16 ft; maximum instantaneous elevation, 71.60 ft, Sept. 22, 1969; minimum daily elevation after January 1930, 48.70 ft, Oct. 22,23, 1957 (earth embankment breached).

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 73,700 acre-ft, July 10, elevation, 68.89 ft; minimum daily contents, 59,100 acre-ft, Apr. 1, elevation, 67.40 ft.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68.55	---	68.42	68.52	68.47	68.47	67.48	68.43	68.43	68.40	68.50	68.44
2	68.57	---	68.45	68.49	68.44	68.38	67.55	68.43	68.54	68.53	68.59	68.45
3	68.65	---	68.45	68.50	68.46	68.36	67.82	68.44	68.63	68.67	68.52	68.50
4	68.57	---	68.46	68.49	68.45	68.44	67.64	68.43	68.59	68.66	68.66	68.50
5	68.51	68.16	68.42	68.49	68.42	68.52	67.74	68.54	68.49	68.57	68.56	68.49
6	68.45	68.16	68.41	68.45	68.40	68.62	67.73	68.59	68.38	68.51	68.49	68.43
7	68.41	68.15	68.40	68.42	68.42	68.60	67.74	68.45	68.57	68.45	68.66	68.36
8	68.36	68.16	68.39	68.46	68.51	68.66	67.73	68.47	68.43	68.43	68.58	68.38
9	68.40	68.23	68.36	68.49	68.53	68.55	67.51	68.51	68.40	68.47	68.46	68.42
10	68.39	68.27	68.39	68.47	68.48	68.44	67.74	68.46	68.39	68.59	68.42	68.46
11	68.34	68.35	68.51	68.45	68.44	68.41	67.97	68.42	68.45	68.22	68.61	68.48
12	68.33	68.45	68.54	68.50	68.43	68.41	68.17	68.44	68.63	67.86	68.53	68.49
13	68.40	68.57	68.54	68.51	68.41	68.50	68.32	68.45	68.50	67.67	68.41	68.47
14	68.41	68.67	68.49	68.60	68.41	68.57	68.54	68.42	68.36	67.69	68.47	68.45
15	68.43	68.58	68.50	68.70	68.44	68.59	68.50	68.44	68.39	67.52	68.51	68.47
16	68.40	68.49	68.52	68.69	68.43	68.62	68.42	68.51	68.45	67.56	68.45	68.50
17	---	68.43	68.48	68.52	68.43	68.59	68.46	68.53	68.46	67.62	68.45	68.53
18	68.35	68.44	68.46	68.39	68.43	68.44	68.46	68.51	68.47	67.77	68.50	68.56
19	68.33	68.51	68.45	68.45	68.46	68.41	68.39	68.46	68.50	67.97	68.47	68.59
20	68.40	68.57	68.45	68.52	68.49	68.45	68.38	68.41	68.45	68.29	68.37	68.59
21	68.35	68.63	68.43	68.56	68.52	68.45	68.41	68.59	68.38	68.38	68.47	68.60
22	---	68.66	68.47	68.55	68.52	68.48	68.40	68.55	68.32	68.35	68.44	68.62
23	---	68.63	68.51	68.59	68.51	68.37	68.43	68.46	68.34	68.48	68.47	68.59
24	---	68.49	68.55	68.54	68.45	68.48	68.45	68.54	68.43	68.56	68.50	68.48
25	68.30	68.49	68.64	68.48	68.49	68.63	68.44	68.61	68.38	68.47	68.50	68.42
26	---	68.52	68.61	68.47	68.49	68.55	68.45	68.62	68.27	68.41	68.45	68.40
27	---	68.47	68.47	68.48	68.58	68.52	68.51	68.59	68.29	68.42	68.37	68.50
28	---	68.46	68.44	68.50	68.61	68.15	68.51	68.53	68.38	68.48	68.34	68.60
29	68.23	68.44	68.44	68.46	---	67.70	68.44	68.53	68.44	68.47	68.42	68.61
30	68.23	68.40	68.44	68.46	---	67.53	68.45	68.48	68.39	68.46	68.48	68.60
31	---	---	68.48	68.49	---	67.52	---	68.37	---	68.43	68.54	---
MEAN	---	---	68.47	68.51	68.47	68.40	68.16	68.49	68.44	68.27	68.49	68.50
MAX	---	---	68.64	68.70	68.61	68.66	68.54	68.62	68.63	68.67	68.66	68.62
MIN	---	---	68.36	68.39	68.40	67.52	67.48	68.37	68.27	67.52	68.34	68.36



WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

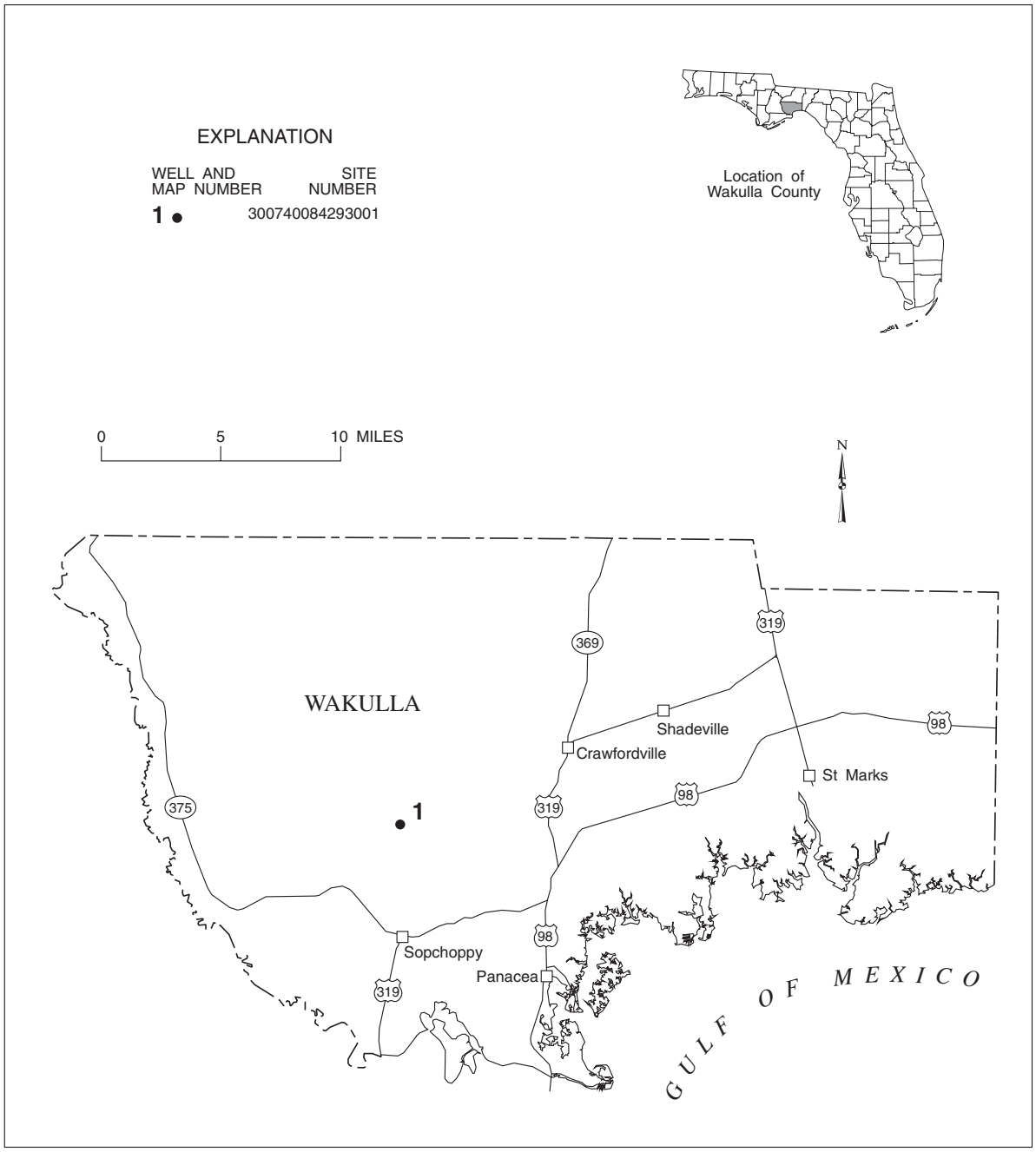


Figure 14. Location of wells in Wakulla County.

WAKULLA COUNTY

WELL NUMBER.--300740084293001. USGS Observation Well near Crawfordville, FL.

LOCATION.--Lat 30° 07'40", long 84° 29'30", in NW 1/4 NE 1/4 NW 1/4 sec.24, T.4 S., R.3 W., Hydrologic Unit 03120003, 400 ft east of Sopchoppy River, 6.6 mi southwest of intersection of Forest Road 365 and State Highway 368, and 7.8 mi west of Crawfordville.

AQUIFER.--Hawthorne Limestone aquifer of the Miocene System, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, bench mark, artesian well, diameter 6 in., depth 127 ft, cased to 121 ft.

INSTRUMENTATION.--Satellite data collection platform with water-elevation recorder.

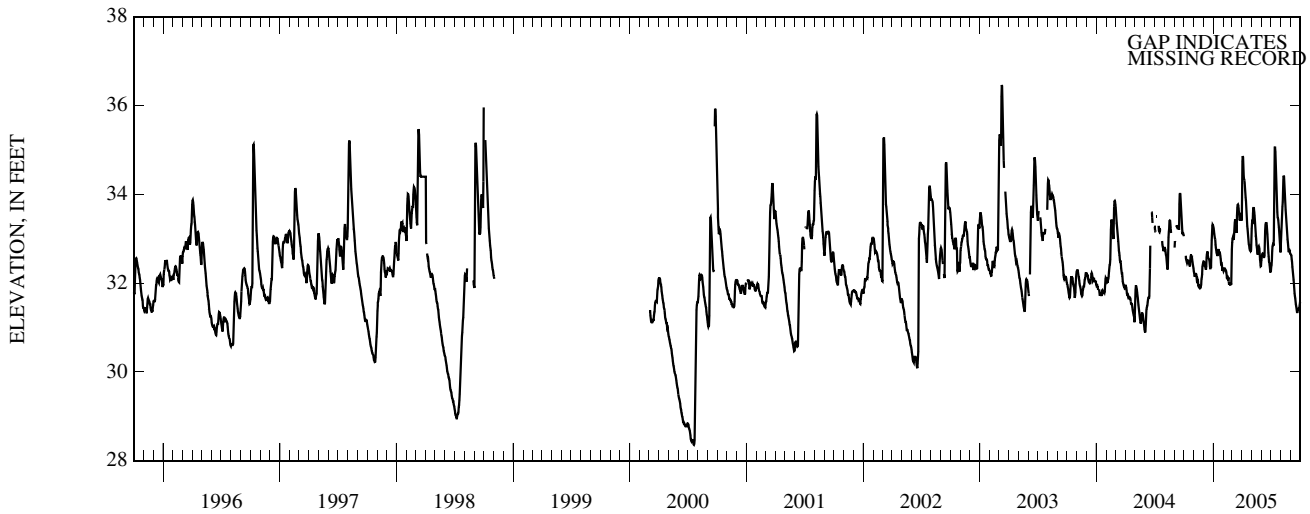
DATUM.--Land-surface datum is 46.91 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelf, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--January 1967 to September 1998. March 2000 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.91 ft NGVD, July 31, 1975; lowest, 24.42 ft NGVD, Sept. 14, 1966.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	32.23	32.49	33.24	32.27	32.91	34.19	33.22	32.57	32.37	32.92	32.64
2	---	32.19	32.48	33.18	32.29	33.00	34.74	33.35	32.61	32.41	33.10	32.61
3	---	32.14	32.46	33.11	32.33	33.02	34.86	33.39	32.66	32.51	33.27	32.54
4	---	32.17	32.43	33.06	32.33	33.04	34.83	33.38	32.67	32.72	33.50	32.48
5	---	32.19	32.38	33.01	32.33	33.02	34.65	33.57	32.66	32.83	33.72	32.37
6	32.62	32.21	32.36	32.98	32.31	32.97	34.41	33.69	32.65	32.86	33.82	32.29
7	32.54	32.21	32.34	32.87	32.30	33.07	34.34	33.69	32.63	32.88	34.14	32.22
8	32.50	32.18	32.30	32.80	32.28	33.20	34.32	33.66	32.59	32.84	34.36	32.14
9	32.47	32.11	32.38	32.74	32.27	33.36	34.25	33.60	32.59	32.96	34.42	32.07
10	32.45	32.04	32.58	32.70	32.23	33.42	34.13	33.52	32.62	34.00	34.40	31.96
11	32.47	32.05	32.65	32.66	32.13	33.42	34.02	33.42	32.92	34.74	34.26	31.87
12	32.51	32.07	32.69	32.63	32.11	33.34	33.93	33.29	33.18	35.05	34.10	31.77
13	32.51	32.04	32.71	32.61	32.10	33.29	33.86	33.17	33.31	35.05	33.94	31.71
14	32.48	31.95	32.62	32.65	32.09	33.23	33.74	33.07	33.35	34.95	33.80	31.66
15	32.47	31.93	32.58	32.73	32.10	33.13	33.58	32.99	33.35	34.65	33.65	31.59
16	32.45	31.94	32.57	32.76	32.13	33.52	33.43	32.86	33.35	34.35	33.54	31.52
17	32.42	31.92	32.55	32.73	32.11	33.69	33.29	32.81	33.30	34.09	33.42	31.48
18	32.40	31.89	32.53	32.67	32.04	33.76	33.22	32.75	33.21	33.92	33.30	31.43
19	32.37	31.88	32.50	32.70	31.99	33.77	33.13	32.68	33.10	33.76	33.20	31.38
20	32.51	31.90	32.42	32.70	31.99	33.74	33.04	32.64	32.95	33.60	33.09	31.33
21	32.59	31.90	32.34	32.66	31.99	33.68	32.96	32.76	32.81	33.48	32.99	31.36
22	32.63	31.93	32.34	32.61	31.97	33.60	32.87	32.81	32.69	33.47	32.92	31.41
23	32.63	31.95	32.41	32.55	31.95	33.56	32.85	32.83	32.60	33.42	32.83	31.42
24	32.62	32.09	32.40	32.46	31.99	33.43	32.79	32.80	32.49	33.33	32.75	31.42
25	32.59	32.13	32.60	32.47	31.99	33.41	32.75	32.76	32.47	33.25	32.70	31.41
26	32.53	32.20	32.96	32.46	31.96	33.45	32.74	32.63	32.41	33.15	32.73	31.41
27	32.47	32.37	33.15	32.40	32.47	33.55	32.73	32.53	32.33	33.05	32.74	31.46
28	32.42	32.41	33.28	32.28	32.76	33.54	32.72	32.47	32.26	32.92	32.72	31.51
29	32.38	32.45	33.32	32.33	---	33.50	32.73	32.38	32.26	32.80	32.67	31.57
30	32.34	32.49	33.31	32.32	---	33.46	32.93	32.39	32.28	32.69	32.66	31.58
31	32.27	---	33.27	32.29	---	33.41	---	32.50	---	32.79	32.65	---
MEAN	---	32.11	32.63	32.69	32.17	33.37	33.60	33.02	32.76	33.45	33.36	31.79
MAX	---	32.49	33.32	33.24	32.76	33.77	34.86	33.69	33.35	35.05	34.42	32.64
MIN	---	31.88	32.30	32.28	31.95	32.91	32.72	32.38	32.26	32.37	32.65	31.33



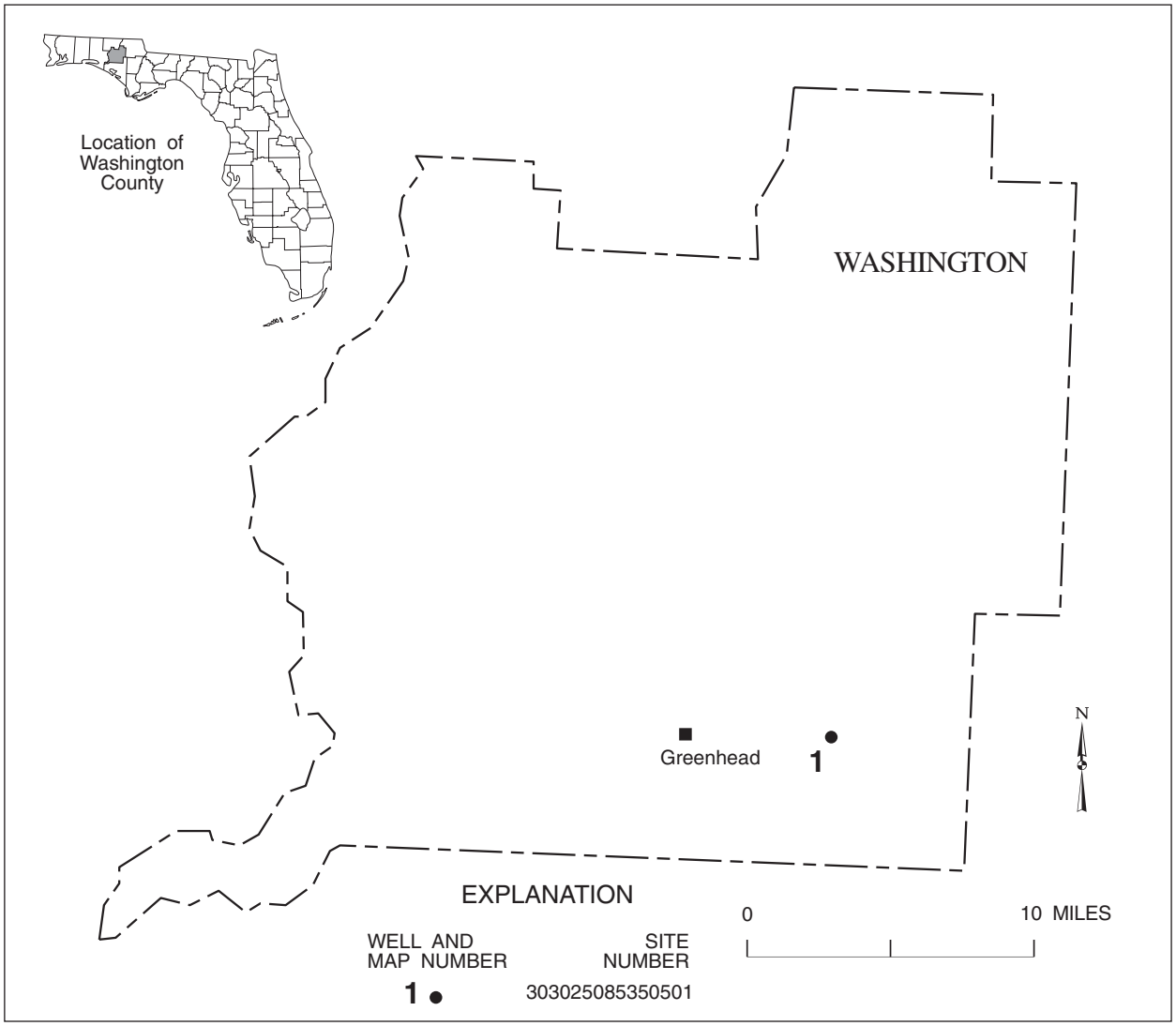


Figure 15. Location of wells in Washington County.

WASHINGTON COUNTY

WELL NUMBER.--303025085350501. Local Number 422A. USGS Observation Well near Wausau, Fl.

LOCATION.--Lat 30° 30'25", long 85° 35'05", in $SE^1/4NW^1/4NW^1/4$ sec. 7, T. 1 N., R. 13 W., Hydrologic Unit 03140101, 0.6 mi east of road to Deadening Cemetery, 4.2 mi east of State Highway 77, and 8.6 mi south of Wausau.

AQUIFER.--Floridan aquifer of the Tertiary system, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in., depth 150 ft, cased to 110 ft.

INSTRUMENTATION.--Satellite data collection platform with water-elevation recorder.

DATUM.--Land-surface datum is 66.11 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 2.90 ft above land-surface datum.

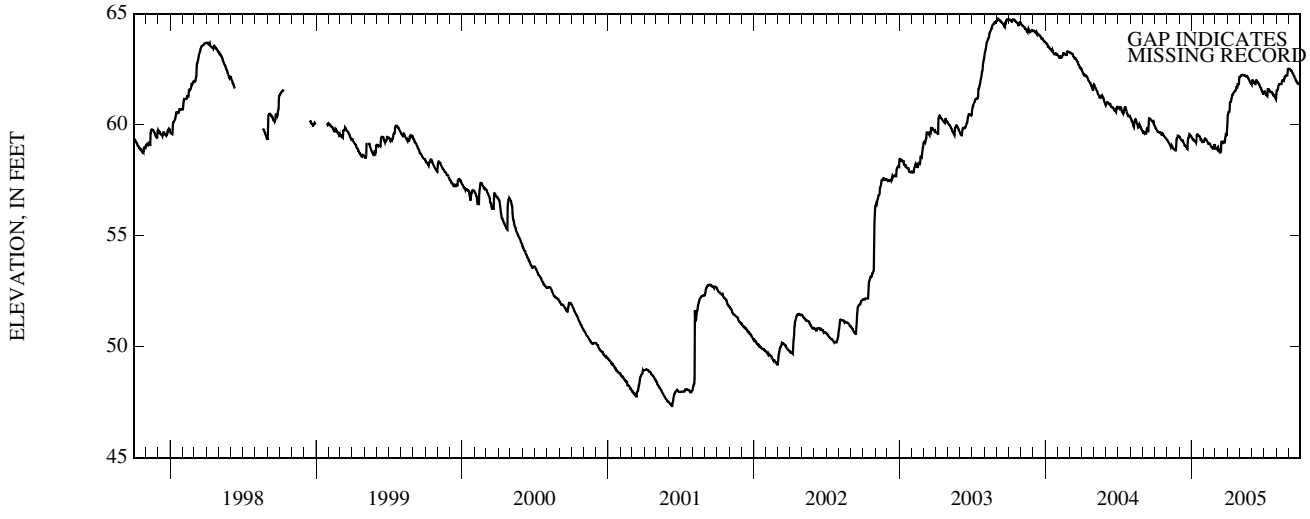
PERIOD OF RECORD.--October 1962 to September 1989, October 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.75 ft NGVD, Oct. 1,2, 1979; lowest, 47.33 ft NGVD, June 10, 2001.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.91	59.30	59.46	59.43	59.23	59.01	60.42	62.12	61.99	61.45	61.36	62.52
2	59.87	59.28	59.42	59.41	59.35	58.95	60.46	62.17	62.00	61.50	61.52	62.50
3	59.84	59.23	59.40	59.37	59.38	58.94	60.56	62.18	62.00	61.49	61.52	62.50
4	59.81	59.21	59.37	59.34	59.38	58.93	60.57	62.18	61.97	61.41	61.56	62.50
5	59.78	59.17	59.33	59.33	59.36	58.91	60.57	62.21	61.93	61.36	61.62	62.47
6	59.74	59.15	59.31	59.32	59.32	58.88	60.65	62.23	61.89	61.42	61.71	62.45
7	59.70	59.12	59.30	59.28	59.31	58.99	60.99	62.23	61.88	61.42	61.79	62.44
8	59.68	59.08	59.28	59.26	59.29	59.01	61.01	62.24	61.86	61.35	61.82	62.42
9	59.66	59.03	59.29	59.26	59.26	58.90	61.05	62.24	61.83	61.31	61.82	62.38
10	59.66	58.98	59.29	59.25	59.21	58.88	61.10	62.23	61.83	61.60	61.82	62.34
11	59.67	59.00	59.20	59.23	59.15	58.84	61.16	62.23	62.00	61.59	61.82	62.31
12	59.67	59.07	59.17	59.21	59.15	58.79	61.34	62.23	62.00	61.56	61.83	62.27
13	59.64	59.05	59.15	59.50	59.13	58.79	61.34	62.22	61.98	61.58	61.83	62.24
14	59.62	58.96	59.08	59.54	59.15	58.76	61.35	62.22	61.94	61.58	61.83	62.21
15	59.64	58.94	59.04	59.56	59.15	58.78	61.38	62.22	61.92	61.56	61.98	62.16
16	59.62	58.92	59.04	59.56	59.14	59.21	61.42	62.19	61.91	61.52	62.00	62.11
17	59.57	58.92	59.03	59.52	59.10	59.23	61.45	62.17	61.88	61.47	62.00	62.08
18	59.54	58.89	59.02	59.50	59.03	59.23	61.49	62.17	61.84	61.47	61.97	62.03
19	59.53	58.87	59.00	59.49	59.00	59.21	61.51	62.17	61.80	61.47	61.96	61.99
20	59.59	58.87	58.91	59.49	58.99	59.20	61.52	62.19	61.74	61.47	62.02	61.96
21	59.57	58.85	58.90	59.46	58.97	59.19	61.54	62.17	61.71	61.47	62.05	61.92
22	59.53	58.85	59.17	59.42	58.93	59.23	61.58	62.10	61.68	61.42	62.15	61.90
23	59.51	59.03	59.38	59.35	58.95	59.24	61.69	62.08	61.65	61.37	62.19	61.89
24	59.49	59.34	59.41	59.31	58.97	59.21	61.71	62.06	61.58	61.35	62.20	61.84
25	59.46	59.37	59.48	59.32	58.93	59.20	61.70	62.02	61.54	61.31	62.20	61.83
26	59.44	59.40	59.56	59.30	58.91	59.36	61.83	61.96	61.51	61.31	62.21	61.82
27	59.40	59.51	59.55	59.25	59.12	59.55	61.83	61.92	61.48	61.32	62.22	61.85
28	59.39	59.51	59.54	59.18	59.07	59.53	61.81	61.89	61.40	61.29	62.21	61.84
29	59.37	59.49	59.51	59.26	---	59.52	61.82	61.85	61.39	61.24	62.31	61.85
30	59.34	59.48	59.49	59.26	---	59.53	62.11	61.85	61.45	61.18	62.47	61.87
31	59.32	---	59.46	59.23	---	60.01	---	61.82	---	61.15	62.52	---
TOTAL	1,847.56	1,773.87	1,837.54	1,840.19	1,655.93	1,833.01	1,838.96	1,925.76	1,853.58	1,903.99	1,920.51	1,864.49
MEAN	59.60	59.13	59.28	59.36	59.14	59.13	61.30	62.12	61.79	61.42	61.95	62.15
MAX	59.91	59.51	59.56	59.56	59.38	60.01	62.11	62.24	62.00	61.60	62.52	62.52
MIN	59.32	58.85	58.90	59.18	58.91	58.76	60.42	61.82	61.39	61.15	61.36	61.82

CAL YR 2004 TOTAL 22,329.82 MEAN 61.01 MAX 63.70 MIN 58.85
WTR YR 2005 TOTAL 22,095.39 MEAN 60.54 MAX 62.52 MIN 58.76



APPENDIX

022409424 MOORES POND TRIBUTARY NEAR MICANOPY, FL

LOCATION.--Lat 29°28'01", long 82°18'52", in NE 1/4 sec. 9, T.12S., R.20E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 329, 3.1 mi southwest of Micanopy, and 4.2 mi north of Flemington.

DRAINAGE AREA.--0.41 mi^2.

PERIOD OF RECORD.--October 1995 to September 1996 (fragmentary).

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--No estimated daily discharges. Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.2 ft^3/s, Nov. 11, gage height, 4.78 ft; minimum discharge .00 ft^3/s, many days of year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.07	0.02	0.29	0.00	0.18	0.03	0.03	0.02	0.02	0.04	---
2	---	0.02	0.02	0.03	0.00	0.04	0.03	0.03	0.02	0.02	0.03	---
3	---	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.02	0.02	0.03	---
4	---	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.02	0.02	0.03	---
5	---	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.02	0.02	0.06	---
6	---	0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.02	0.55	0.06	---
7	---	0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.02	0.04	0.04	---
8	---	0.11	0.03	0.03	0.02	0.02	0.02	0.03	0.02	0.04	0.04	---
9	---	0.02	0.03	0.03	0.02	0.02	0.02	0.03	0.02	0.09	0.04	---
10	---	0.02	0.03	0.03	0.02	0.02	0.02	0.03	0.02	0.04	0.04	---
11	---	0.55	0.03	0.03	0.02	0.13	0.02	0.03	0.02	0.04	0.04	---
12	---	0.04	0.03	0.03	0.00	0.03	0.02	0.03	0.02	0.04	0.08	---
13	---	0.02	0.03	0.03	0.00	0.03	0.02	0.02	0.02	0.04	0.06	---
14	---	0.02	0.03	0.03	0.00	0.03	0.02	0.02	0.02	0.04	---	---
15	---	0.02	0.03	0.03	0.00	0.03	0.02	0.02	0.02	0.04	---	---
16	---	0.02	0.03	0.03	0.00	0.03	0.02	0.02	0.02	0.04	---	---
17	---	0.02	0.03	0.03	0.00	0.03	0.02	0.02	0.02	0.04	---	---
18	0.00	0.02	0.03	0.02	0.00	0.17	0.02	0.02	0.02	0.04	---	---
19	0.00	0.02	0.06	0.00	0.00	0.03	0.02	0.02	0.02	0.04	---	---
20	0.00	0.02	0.03	0.00	0.00	0.02	0.02	0.02	0.02	0.04	---	---
21	0.00	0.02	0.03	0.00	0.00	0.02	0.02	0.02	0.02	0.04	---	---
22	0.00	0.02	0.03	0.00	0.00	0.02	0.02	0.02	0.02	0.04	---	---
23	0.00	0.02	0.03	0.00	0.00	0.01	0.02	0.02	0.02	0.04	---	---
24	0.00	0.02	0.03	0.00	0.00	0.01	0.02	0.02	0.02	0.04	---	---
25	0.00	0.02	0.03	0.00	0.00	0.01	0.00	0.02	0.02	0.04	---	---
26	0.00	0.02	0.03	0.00	0.00	0.01	0.00	0.02	0.02	0.04	---	---
27	0.00	0.02	0.03	0.00	0.00	0.04	0.00	0.02	0.02	0.04	---	---
28	0.00	0.02	0.03	0.00	0.00	0.03	0.00	0.02	0.02	0.04	---	---
29	0.00	0.02	0.03	0.00	0.00	0.01	0.00	0.02	0.02	0.04	---	---
30	0.00	0.02	0.03	0.00	---	0.68	0.11	0.02	0.02	0.04	---	---
31	0.00	---	0.03	0.00	---	0.08	---	0.02	---	0.04	---	---
MEAN	---	0.04	0.03	0.03	0.01	0.06	0.02	0.02	0.02	0.05	---	---
MAX	---	0.55	0.06	0.29	0.02	0.68	0.11	0.03	0.02	0.55	---	---
MIN	---	0.02	0.02	0.00	0.00	0.01	0.00	0.02	0.02	0.02	---	---

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

MEAN	---	0.04	0.03	0.03	0.01	0.06	0.02	0.02	0.02	0.05	---	---
MAX	---	0.04	0.03	0.03	0.01	0.06	0.02	0.02	0.02	0.05	---	---
(WY)	---	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	---	---
MIN	---	0.04	0.03	0.03	0.01	0.06	0.02	0.02	0.02	0.05	---	---
(WY)	---	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	---	---

022409424 MOORES POND TRIBUTARY NEAR MICANOPY, FL

LOCATION.--Lat 29°28'01", long 82°18'52", in NE $^{1}/_{4}$ sec. 9, T.12S., R.20E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 329, 3.1 mi southwest of Micanopy, and 4.2 mi north of Flemington.

DRAINAGE AREA.--0.41 mi^2.

PERIOD OF RECORD.--October 1995 to November 1996 (fragmentary), December 1996 to September 1997.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--No estimated daily discharges. Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	0.01	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.01	0.00
2	---	---	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
4	---	---	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
6	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	---	0.00	0.29	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.02	0.00
8	---	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00
9	---	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00
10	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
11	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
12	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
13	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
14	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
15	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
16	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
17	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
18	---	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	---	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
20	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	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
22	---	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
24	---	0.00	0.00	0.03	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
25	---	0.00	0.00	0.07	0.00	0.09	0.00	0.25	0.00	0.00	0.00	0.00
26	---	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
27	---	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.06
28	---	0.00	0.00	0.00	0.00	0.00	0.08	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	0.00
30	---	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	---	0.08	---	0.00	0.00	---
MEAN	---	---	0.01	0.00	0.00	0.00	0.01	0.03	0.01	0.01	0.00	0.00
MAX	---	---	0.29	0.07	0.00	0.09	0.23	0.61	0.15	0.02	0.03	0.06
MIN	---	---	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 1996 - 1997, BY WATER YEAR (WY)

MEAN	---	0.04	0.02	0.01	0.00	0.03	0.02	0.03	0.01	0.03	0.00	0.00
MAX	---	0.04	0.03	0.03	0.01	0.06	0.02	0.03	0.02	0.05	0.00	0.00
(WY)	---	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1997)	(1996)	(1996)	(1997)	(1997)
MIN	---	0.04	0.01	0.00	0.00	0.00	0.01	0.02	0.01	0.01	0.00	0.00
(WY)	---	(1996)	(1997)	(1997)	(1997)	(1997)	(1997)	(1996)	(1997)	(1997)	(1997)	(1997)

SUMMARY STATISTICS	WATER YEARS 1996 - 1997	
HIGHEST DAILY MEAN	0.68	Mar 30, 1996
LOWEST DAILY MEAN	0.00	Oct 18, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 18, 1995
MAXIMUM PEAK FLOW	7.6	May 24, 1997
MAXIMUM PEAK STAGE	5.33	May 24, 1997
INSTANTANEOUS LOW FLOW	0.00	Oct 17, 1995

022409424 MOORES POND TRIBUTARY NEAR MICANOPY, FL

LOCATION.--Lat 29°28'01", long 82°18'52", in NE 1/4 sec. 9, T.12S., R.20E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 329, 3.1 mi southwest of Micanopy, and 4.2 mi north of Flemington.

DRAINAGE AREA.--0.41 mi^2.

PERIOD OF RECORD.--October 1995 to November 1996 (fragmentary), December 1996 to current year.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--No estimated daily discharges. Records poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	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	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.01
4	0.00	0.00	0.00	0.00	0.01	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	0.01	0.02
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
8	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
9	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00
11	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	5.0	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.02	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.22	0.03	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	1.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.14	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.03	0.24	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.08
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
22	0.00	0.00	0.90	0.00	2.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.27	0.01	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	1.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83
26	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
27	0.06	0.00	0.18	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	0.01	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.01	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	1.9
31	0.39	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
MEAN	0.01	0.17	0.18	0.01	0.23	0.01	0.00	0.00	0.00	0.00	0.01	0.10
MAX	0.39	5.0	1.9	0.38	2.9	0.24	0.00	0.00	0.00	0.01	0.22	1.9
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

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

MEAN	0.01	0.11	0.08	0.01	0.08	0.02	0.01	0.02	0.01	0.02	0.01	0.05
MAX	0.01	0.17	0.18	0.03	0.23	0.06	0.02	0.03	0.02	0.05	0.01	0.10
(WY)	(1998)	(1998)	(1998)	(1996)	(1998)	(1996)	(1996)	(1997)	(1996)	(1996)	(1998)	(1998)
MIN	0.01	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1998)	(1996)	(1997)	(1997)	(1997)	(1997)	(1998)	(1998)	(1998)	(1998)	(1997)	(1997)

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1996 - 1998	
ANNUAL MEAN	0.04		0.06		0.06	
HIGHEST ANNUAL MEAN					0.06	1998
LOWEST ANNUAL MEAN					0.06	1998
HIGHEST DAILY MEAN	5.0	Nov 13	5.0	Nov 13	5.0	Nov 13, 1997
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 18, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 18, 1995
MAXIMUM PEAK FLOW			48	Nov 13	48	Nov 13, 1997
MAXIMUM PEAK STAGE			7.12	Nov 13	7.12	Nov 13, 1997
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 17, 1995
10 PERCENT EXCEEDS	0.02		0.02		0.02	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

022409424 MOORES POND TRIBUTARY NEAR MICANOPY, FL

LOCATION.--Lat 29°28'01", long 82°18'52", in NE 1/4 sec. 9, T.12S., R.20E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 329, 3.1 mi southwest of Micanopy, and 4.2 mi north of Flemington.

DRAINAGE AREA.--0.41 mi^2.

PERIOD OF RECORD.--October 1995 to November 1996 (fragmentary), December 1996 to current year.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--No estimated daily discharges. Records poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.11	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	0.04	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	0.01	0.00	0.00	0.01
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	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	0.05	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	0.18
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
23	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.25	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	0.10
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.08	1.0
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01
29	0.00	0.00	0.00	0.00	---	0.00	0.05	0.00	0.00	0.00	0.00	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	---
MEAN	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
MAX	0.11	0.00	0.00	0.25	0.00	0.00	0.05	0.00	0.04	0.05	0.08	1.0
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

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

MEAN	0.01	0.07	0.06	0.01	0.06	0.02	0.01	0.01	0.01	0.02	0.01	0.05
MAX	0.01	0.17	0.18	0.03	0.23	0.06	0.02	0.03	0.02	0.05	0.01	0.10
(WY)	(1998)	(1998)	(1998)	(1996)	(1998)	(1996)	(1996)	(1997)	(1996)	(1996)	(1998)	(1998)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1999)	(1999)	(1999)	(1997)	(1997)	(1999)	(1998)	(1998)	(1998)	(1998)	(1997)	(1997)

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1996 - 1999	
ANNUAL MEAN	0.03		0.01		0.03	
HIGHEST ANNUAL MEAN					0.06	1998
LOWEST ANNUAL MEAN					0.01	1999
HIGHEST DAILY MEAN	2.9	Feb 22	1.0	Sep 27	5.0	Nov 13, 1997
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 2	0.00	Oct 18, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 2	0.00	Oct 18, 1995
MAXIMUM PEAK FLOW			15	Sep 27	48	Nov 13, 1997
MAXIMUM PEAK STAGE			5.97	Sep 27	7.12	Nov 13, 1997
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 17, 1995
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

022409424 MOORES POND TRIBUTARY NEAR MICANOPY, FL

LOCATION.--Lat 29°28'01", long 82°18'52", in NE 1/4 sec. 9, T.12S., R.20E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 329, 3.1 mi southwest of Micanopy, and 4.2 mi north of Flemington.

DRAINAGE AREA.--0.41 mi^2.

PERIOD OF RECORD.--October 1995 to November 1996 (fragmentary), December 1996 to current year.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--No estimated daily discharges. Records poor.

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	0.00	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	0.65
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
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	0.01	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	0.01	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	0.29
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
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	0.29	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	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	0.01	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	0.00	0.34	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	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.03
MAX	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.29	0.00	0.34	0.65
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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	0.01	0.05	0.05	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.05
MAX	0.01	0.17	0.18	0.03	0.23	0.06	0.02	0.03	0.02	0.05	0.01	0.10
(WY)	(1998)	(1998)	(1998)	(1996)	(1998)	(1996)	(1996)	(1997)	(1996)	(1996)	(1998)	(1998)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2000)	(1999)	(1999)	(2000)	(1997)	(1999)	(1998)	(1998)	(1998)	(2000)	(1997)	(1997)

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL MEAN	0.01		0.00		0.02	
HIGHEST ANNUAL MEAN					0.06	1998
LOWEST ANNUAL MEAN					0.00	2000
HIGHEST DAILY MEAN	1.0	Sep 27	0.65	Sep 6	5.0	Nov 13, 1997
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 18, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 18, 1995
MAXIMUM PEAK FLOW			9.7	Sep 6	48	Nov 13, 1997
MAXIMUM PEAK STAGE			5.60	Sep 6	7.12	Nov 13, 1997
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 17, 1995
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

022409424 MOORES POND TRIBUTARY NEAR MICANOPY, FL

LOCATION.--Lat 29°28'01", long 82°18'52", in NE 1/4 sec. 9, T.12S., R.20E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 329, 3.1 mi southwest of Micanopy, and 4.2 mi north of Flemington.

DRAINAGE AREA.--0.41 mi^2.

PERIOD OF RECORD.--October 1995 to November 1996 (fragmentary), December 1996 to current year.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--No estimated daily discharges. Records poor.

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	0.00	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	0.03
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
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	0.00	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	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	0.00	0.04	0.04	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.04
MAX	0.01	0.17	0.18	0.03	0.23	0.06	0.02	0.03	0.02	0.05	0.01	0.10
(WY)	(1998)	(1998)	(1998)	(1996)	(1998)	(1996)	(1996)	(1997)	(1996)	(1996)	(1998)	(1998)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2000)	(1999)	(1999)	(2001)	(1997)	(1999)	(1998)	(1998)	(1998)	(2000)	(2001)	(1997)

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL MEAN	0.00		0.00		0.02	
HIGHEST ANNUAL MEAN					0.06	1998
LOWEST ANNUAL MEAN					0.00	2001
HIGHEST DAILY MEAN	0.65	Sep 6	0.06	Sep 15	5.0	Nov 13, 1997
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 18, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 18, 1995
MAXIMUM PEAK FLOW			0.28	Sep 14	48	Nov 13, 1997
MAXIMUM PEAK STAGE			4.27	Sep 14	7.12	Nov 13, 1997
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 17, 1995
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

022409424 MOORES POND TRIBUTARY NEAR MICANOPY, FL

LOCATION.--Lat 29°28'01", long 82°18'52", in NE 1/4 sec. 9, T.12S., R.20E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 329, 3.1 mi southwest of Micanopy, and 4.2 mi north of Flemington.

DRAINAGE AREA.--0.41 mi^2.

PERIOD OF RECORD.--October 1995 to November 1996 (fragmentary), December 1996 to April 2002, May to July 2002 (fragmentary), August to September 2002.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--No estimated daily discharges. Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.5 ft^3/s, July 28, gage height, 4.24 ft; minimum discharge .00 ft^3/s, many days during 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	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
3	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
5	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
7	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
9	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
11	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
13	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	0.01
15	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
17	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
19	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
21	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
23	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	0.01
25	0.06	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
27	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	---	---	0.07	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	---	---	0.01	0.00	0.00
30	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	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	0.00	0.00
MAX	0.06	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	0.00	0.01
MIN	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 1996 - 2002, BY WATER YEAR (WY)

MEAN	0.00	0.04	0.03	0.01	0.03	0.01	0.00	0.01	0.01	0.01	0.00	0.03
MAX	0.01	0.17	0.18	0.03	0.23	0.06	0.02	0.03	0.02	0.05	0.01	0.10
(WY)	(1998)	(1998)	(1998)	(1996)	(1998)	(1996)	(1996)	(1997)	(1996)	(1996)	(1998)	(1998)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2000)	(1999)	(1999)	(2001)	(1997)	(1999)	(1998)	(1998)	(1998)	(2000)	(2001)	(2002)

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		WATER YEARS 1996 - 2002	
ANNUAL MEAN	0.00		0.02	
HIGHEST ANNUAL MEAN			0.06	1998
LOWEST ANNUAL MEAN			0.00	2001
HIGHEST DAILY MEAN	0.06	Sep 15	5.0	Nov 13, 1997
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 18, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 18, 1995
MAXIMUM PEAK FLOW			48	Nov 13, 1997
MAXIMUM PEAK STAGE			7.12	Nov 13, 1997
INSTANTANEOUS LOW FLOW			0.00	Oct 17, 1995
10 PERCENT EXCEEDS	0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00	

022409424 MOORES POND TRIBUTARY NEAR MICANOPY, FL

LOCATION.--Lat 29°28'01", long 82°18'52", in NE 1/4 sec. 9, T.12S., R.20E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 329, 3.1 mi southwest of Micanopy, and 4.2 mi north of Flemington.

DRAINAGE AREA.--0.41 mi^2.

PERIOD OF RECORD.--October 1995 to November 1996 (fragmentary), December 1996 to April 2002, May to July 2002 (fragmentary), August 2002 to current year.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--No estimated daily discharges. Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.15	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	0.01
3	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.01	0.00	0.10	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	0.02	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	0.46	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	0.01	0.00	0.00	0.00
13	0.00	0.00	0.01	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	0.01	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.10	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	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	0.03	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	0.45	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.19	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	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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	0.03	0.26	0.00	0.00	0.00	0.01	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	0.01	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	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	---	0.28	0.00	---	0.00	---	0.00	---	0.00	0.00	---
MEAN	0.00	0.00	0.02	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.01	0.00
MAX	0.00	0.01	0.28	0.15	0.05	0.46	0.00	0.03	0.45	0.02	0.10	0.01
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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2003, BY WATER YEAR (WY)

MEAN	0.00	0.03	0.03	0.01	0.03	0.01	0.00	0.01	0.01	0.01	0.01	0.03
MAX	0.01	0.17	0.18	0.03	0.23	0.06	0.02	0.03	0.02	0.05	0.01	0.10
(WY)	(1998)	(1998)	(1998)	(1996)	(1998)	(1996)	(1996)	(1997)	(2003)	(1996)	(1998)	(1998)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2000)	(1999)	(1999)	(2001)	(1997)	(1999)	(1998)	(1998)	(1998)	(2000)	(2001)	(2003)

SUMMARY STATISTICS	FOR 2003 WATER YEAR		WATER YEARS 1996 - 2003	
ANNUAL MEAN	0.01		0.02	
HIGHEST ANNUAL MEAN			0.06	1998
LOWEST ANNUAL MEAN			0.00	2001
HIGHEST DAILY MEAN	0.46	Mar 9	5.0	Nov 13, 1997
LOWEST DAILY MEAN	0.00	Oct 1	0.00	Oct 18, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 1	0.00	Oct 18, 1995
MAXIMUM PEAK FLOW	8.1	Jun 20	48	Nov 13, 1997
MAXIMUM PEAK STAGE	5.05	Jun 20	7.12	Nov 13, 1997
INSTANTANEOUS LOW FLOW	0.00	Oct 1	0.00	Oct 17, 1995
10 PERCENT EXCEEDS	0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00	

022409424 MOORES POND TRIBUTARY NEAR MICANOPY, FL

LOCATION.--Lat 29°28'01", long 82°18'52", in NE 1/4 sec. 9, T.12S., R.20E., Marion County, Hydrologic Unit 03080102, at upstream side of culvert at County Road 329, 3.1 mi southwest of Micanopy, and 4.2 mi north of Flemington.

DRAINAGE AREA.--0.41 mi^2.

PERIOD OF RECORD.--October 1995 to November 1996 (fragmentary), December 1996 to April 2002, May to July 2002 (fragmentary), August 2002 to current year.

GAGE.--Water-stage recorder, crest-stage gage. Datum of gage is not determined.

REMARKS.--Records poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	1.4	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	0.74
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9
7	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
11	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.01
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.02	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	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	17	0.00	0.00	0.00	0.00	0.06	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	6.2
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
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	0.00	0.18	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	---
MEAN	0.00	0.00	0.00	0.00	0.05	0.55	0.00	0.00	0.00	0.00	0.01	0.35
MAX	0.03	0.00	0.00	0.00	1.4	17	0.00	0.00	0.00	0.00	0.18	6.2
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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	0.00	0.03	0.03	0.01	0.03	0.07	0.00	0.01	0.01	0.01	0.01	0.07
MAX	0.01	0.17	0.18	0.03	0.23	0.55	0.02	0.03	0.02	0.05	0.01	0.35
(WY)	(1998)	(1998)	(1998)	(1996)	(1998)	(2004)	(1996)	(1997)	(2003)	(1996)	(1998)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2000)	(1999)	(1999)	(2001)	(1997)	(1999)	(1998)	(1998)	(1998)	(2000)	(2001)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL MEAN	0.01		0.08		0.03	
HIGHEST ANNUAL MEAN					0.08	2004
LOWEST ANNUAL MEAN					0.00	2001
HIGHEST DAILY MEAN	0.46	Mar 9	17	Mar 23	17	Mar 23, 2004
LOWEST DAILY MEAN	0.00	Jan 2	0.00	Oct 1	0.00	Oct 18, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 2	0.00	Oct 8	0.00	Oct 18, 1995
MAXIMUM PEAK FLOW			67	Feb 1	67	Feb 1, 2004
MAXIMUM PEAK STAGE			7.29	Feb 1	7.29	Feb 1, 2004
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 17, 1995
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic-foot-per-second-per-day [(ft^3/s/d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.233×10^{3}	cubic meter (m^3)
	1.233×10^{-3}	cubic hectometer (hm^3)
	1.233×10^{-6}	cubic kilometer (km^3)
	Flow rate	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton, short	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$°F = (1.8 \times °C) + 32$$