Low-Flow Characteristics of Florida Streams

U.S. Geological Survey

Water-Resources Investigations Report 93-4165

Prepared in cooperation with the

Florida Department of Environmental Regulation

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By Roger P. Rumenik and J.W. Grubbs

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FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Tallahassee, Florida
1996

U.S. DEPARTMENT OF THE INTERIOR
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CONTENTS

PLATES [in back pocket]

ILLUSTRATIONS

TABLES

CONVERSION FACTORS AND ACRONYMS

Multiply	By	To obtain
inch (in.)	25.4	millimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
square mile (mi^2)	2.590	square kilometer
cubic foot per second (ft^3/s)	0.02832	cubic meter per second
gallons per minute (gal/min)	0.6309	liter per second
gallons per day (gal/d)	0.003785	cubic meter per day

ACRONYMS

USGS	U.S. Geological Survey
NOAA	National Oceanic and Atmospheric Administration
ADAPS	Automated DAta Processing System

GLOSSARY

Some of the technical terms used in this report are defined in this section. Reports by Langbein and Iseri (1960), Riggs (1968a and b, 1972), and Thomas (1991) contain information regarding low-flow frequency analyses and associated hydrologic terminology. Statistical terms are defined with respect to applications described in this report.

Annual minimum N-day mean discharge.--The lowest average discharge for N consecutive days for the climatic year.

Base flow.--Sustained or fair-weather flow. In most streams, base flow is composed largely of ground-water discharge.

Climatic year.--A continuous 12-month period during which a complete annual hydrologic cycle occurs, arbitrarily selected for the presentation of data relative to hydrologic or meterologic phenomena. The climatic low-flow year is the period from April 1 to March 31 in northern Florida; and, October 1 to September 30 in central and southern Florida. It is designated by the calendar year of the month ending the period.

Continuous-record gaging station.--A site on a stream or canal used to systematically record water-level observations to determine daily-mean discharge.

Correlation.--A process by which the degree of linear association between two or more variables is defined.

Cubic feet per second (ft^3/s).--A unit expressing the volume of discharge per unit time. One cubic foot per second is equivalent to the discharge of a stream whose channel is one square foot in cross sectional area and whose average velocity is one foot per second.

$1\ ft^3/s$ = 448.8 gallons per minute
= 0.646 millon gallons per day

Index station.--A long-term continuous-record gaging station where recorded daily data are used in correlation procedures to estimate low-flow frequency characteristics at partial-record stations and miscellaneous sites.

Low-flow frequency characteristic.--a statistic that describes the magnitude of discharge, averaged over a period of N consecutive days, which has an annual nonexceedance probability equal to the inverse of the recurrence interval (1/T, where T is the recurrence interval).

Mean.--The arithmetic average of the sample.

Miscellaneous site.--A site other than a continuous- or partial-record station where discharge measurements are made for special projects, or during droughts or floods to provide better areal coverage of hydrologic conditions.

N-day, T-year low flow ($Q_{N,T}$).--A specific frequency characteristic associated with a consecutive-day average period of N-days and a recurrence interval of T years. For example, the 7-day, 10-year low-flow frequency characteristic ($Q_{7,10}$) is the annual minimum average flow for 7-consecutive days that will not be exceeded once in ten years; or, that there is a 10 percent chance in any year that the average flow for 7 consecutive days will be less than the $Q_{7,10}$. See low-flow frequency characteristic.

Nonexceedance probability.--The probability that a specified minimum discharge will not be exceeded in any given year. Recurrence interval is computed as the inverse of nonexceedance probability.

p-level.--The probability level of the test statistic being exceeded; level of significance.

Partial-record station.--A site where limited streamflow data are collected systematically over a prescribed period of time for use in hydrologic analyses. Types of sites include low-flow partial-record stations, periodic measurement stations, and crest-stage partial-record stations. In the analyses of this report, continuous-record gaging stations that were operational for less than 10 years were considered as partial-record stations.

Recurrence interval.--The average interval of time between occurrences of a low flow less than a specified N-day low flow.

Regression.--A mathematical technique for determining the relation between a dependent variable and one or more independent variables. The basis for determining low-flow frequency characteristics at partial-record stations and miscellaneous sites using low-flow frequency characteristics at index stations.

Sample percentile.--The magnitude of discharge which is not exceeded by P percent of the annual low-flow values in a given N-day annual low-flow time series, and is exceeded by (100-P) percent of the observed annual low-flow values.

Skew coefficient.--A measure of the asymmetry of a low-flow frequency distribution, computed on the basis of the third central moment about the mean, divided by the cube of the standard deviation.

Standard deviation.--A measure of the dispersion in a sample, computed by taking the square root of the sum of the squared deviations from the mean divided by the sample size minus one.

Standard error.--A measure of the dispersion of a statistic. In this report, standard error of low-flow frequency characteristics is given as a percent, and represents the average of positive and negative departures of estimates of low-flow frequency characteristics from the mean value of the low-flow frequency characteristics.

Low-Flow Characteristics of Florida Streams

By Roger P. Rumenik *and* J. W. Grubbs

Abstract

Knowledge of the low-flow characteristics of Florida streams and rivers is essential in planning for the availability of adequate quantities of water for commercial- and public-water supply, agricultural irrigation, artificial recharge, and the dilution of waste discharge. This report provides low-flow characteristics for 216 continuous-record gaging stations using frequency analysis techniques. Included are low-flow frequency characteristics for 143 unregulated, gaging stations; and sample percentiles for 32 stations that were subject to regulation or diversion, and sample percentiles for 41 stations, regulated and unregulated, that exhibited significant trends in the annual low-flow time series.

Estimates of low-flow frequency characteristics are provided for 242 partial-record stations and miscellaneous sites based on correlations with daily mean discharges at continuous-record stations.

Low-flow measurement data are available at approximately 1,300 continuous-record gaging stations, partial-record stations and miscellaneous sites. Historic low-flow measurement data are accessible through the U.S. Geological Survey Automatic Data Processing System.

INTRODUCTION

Knowledge of the low-flow characteristics of streams and rivers is essential for efficient use and protection of surface-water resources. In Florida, the majority of freshwater demands are met by ground-water supplies; however, surface-water resources continue to provide significant quantities of water for commercial- and public- water supply, agricultural irrigation, artificial recharge, and dilution of waste discharges. Quantitative estimates of low-flow characteristics are therefore needed for management programs designed to ensure the quality and availability of these surface-water resources.

The most common means of quantifying low-flow characteristics of streams is the application of statistical analysis to estimate the magnitude and frequency of occurrence. A low-flow frequency characteristic is an estimate of the annual minimum average discharge for a selected consecutive-day period for a given recurrance interval, in years. Low-flow frequency characteristics are commonly used to evaluate the water-supply and waste-dilution potential of streams, to establish minimum flows for regulatory programs, and for engineering design purposes. For example, estimates of the 7-day, 10-year low-flow frequency characteristic ($Q_{7,10}$) are used as criteria by state regulations to permit specified quantities of waste effluent to be discharged to streams. Low-flow frequency characteristics with different consecutive-day averaging periods and recurrence intervals provide quantitative information that can be used in the management of a variety of additional water-quality and supply problems.

The U.S. Geological Survey (USGS), in cooperation with the Florida Department of Environmental Regulation, began a study in 1987 to address the need for systematic compilation of low-flow frequency characteristics. The objectives of the study were to (1) store existing low-flow measurement data for Florida streams and rivers in a centralized database, and (2) estimate low-flow frequency characteristics at continuous-record stream-gaging

stations, and at partial-record stations and miscellaneous sites where sufficient data are available.

Purpose and Scope

This report presents estimates of low-flow frequency characteristics for continuous-record gaging stations, partial-record stations, and miscellaneous sites in Florida. Generally, estimates were based on data collected through water year 1987. Data from water years 1988 through 1990 were used in the analyses of some stations which otherwise would have had insufficient data available for analyses.

Low-flow frequency characteristics for continuous-record stations are presented for periods of 1, 3, 7, 14, 30, 60, 90, 120, and 183 consecutive days, and recurrence intervals of 2, 5, 10, 20, and 50 years. Low-flow frequency characteristics for partial-record stations and miscellaneous sites are presented for periods of 7 and 30 consecutive days, and recurrence intervals of 2 and 10 years. Sample percentiles of annual low flows are also presented for selected continuous-record gaging stations that were subject to regulation or diversion, and for stations that exhibited significant trends in the annual low-flow time series. Sample percentiles of 50 and 10 are presented for the same period of consecutive days as listed above.

Estimates of streamflows for areas where measurements could not be made (marshes, sloughs, forest swamps, and The Everglades) or areas where development has greatly altered the streamflows (south Florida canals) were not included in this study.

Previous Studies

Several reports have been published on low-flow characteristics of Florida streams. Heath and Wimberly (1971) tabulated values of flow duration and lowest mean discharge for continuous-record stations based on data collected through 1965. Rabon (1971) related low-flow characteristics of streams in peninsular and northwestern Florida to selected basin characteristics of these regions using multiple regression analysis. Results from the regression analysis were considered unacceptable, because of large standard errors (in percent) in the regression equations. Stone (1974) published a map report that showed the distribution of $Q_{7,10}$ values at continuous-record gaging stations throughout Florida. Additionally, frequency curves for selected sites were compared and used to show the effects of geology, hydrology, regulation, and withdrawals on low-flow characteristics. Hughes (1981) presented low-flow frequency characteristics for continuous-record stations in Florida based on data collected through 1977. Foose (1983) tabulated values of flow duration and presented monthly $Q_{7,10}$ values for continuous-record gaging stations in Florida based on data collected through 1979. Most recently, Hammett (1985) presented low-flow frequency characteristics for continuous-record, partial-record, and miscellaneous discharge-measurement stations based on data collected through 1981 for streams in west-central Florida. In addition, low-flow frequency characteristics were related to basin characteristics using multiple linear regression analysis; however, the results were considered unsatisfactory because of large standard errors (in percent) and significant bias in the regression equations. This bias was partially due to a significant number of stations having low-flow frequency values of zero flow.

Some low-flow estimates in this report differ from those presented by Hughes (1981) and Hammett (1985) for identical stations because (1) an additional number of years of data are available for analysis, (2) a different index station may have been used in the correlation process for analyzing partial-record station data, or (3) changes were introduced to guidelines on techniques and methods that apply to data analyses.

Hydrologic Setting

Florida lies within the Coastal Plain Province, and its physiography can be described according to the three physiographic sections of the Coastal Plain in Florida: the Florida Section, the Gulf Coastal Plain Section, and the Atlantic Coastal Plain Section (Fenneman, 1938; Brooks, 1981; fig. 1). Most of Florida is within the Florida Section, which covers all of peninsular Florida and much of northern Florida.

Significant landscape features in the Florida Section of the Coastal Plain Province include sequences of relict beach ridges, barrier islands and lagoons; extensive marshes, swamps, wet prairies, and wooded flatlands; and karstic features such as rolling limestone hills, sinkoles, depression lakes, and large magnitude springs. Generally, streams in the Florida Section have sluggish flow because of the flat topography of the region. Many streams and rivers are sustained by significant ground-water contributions

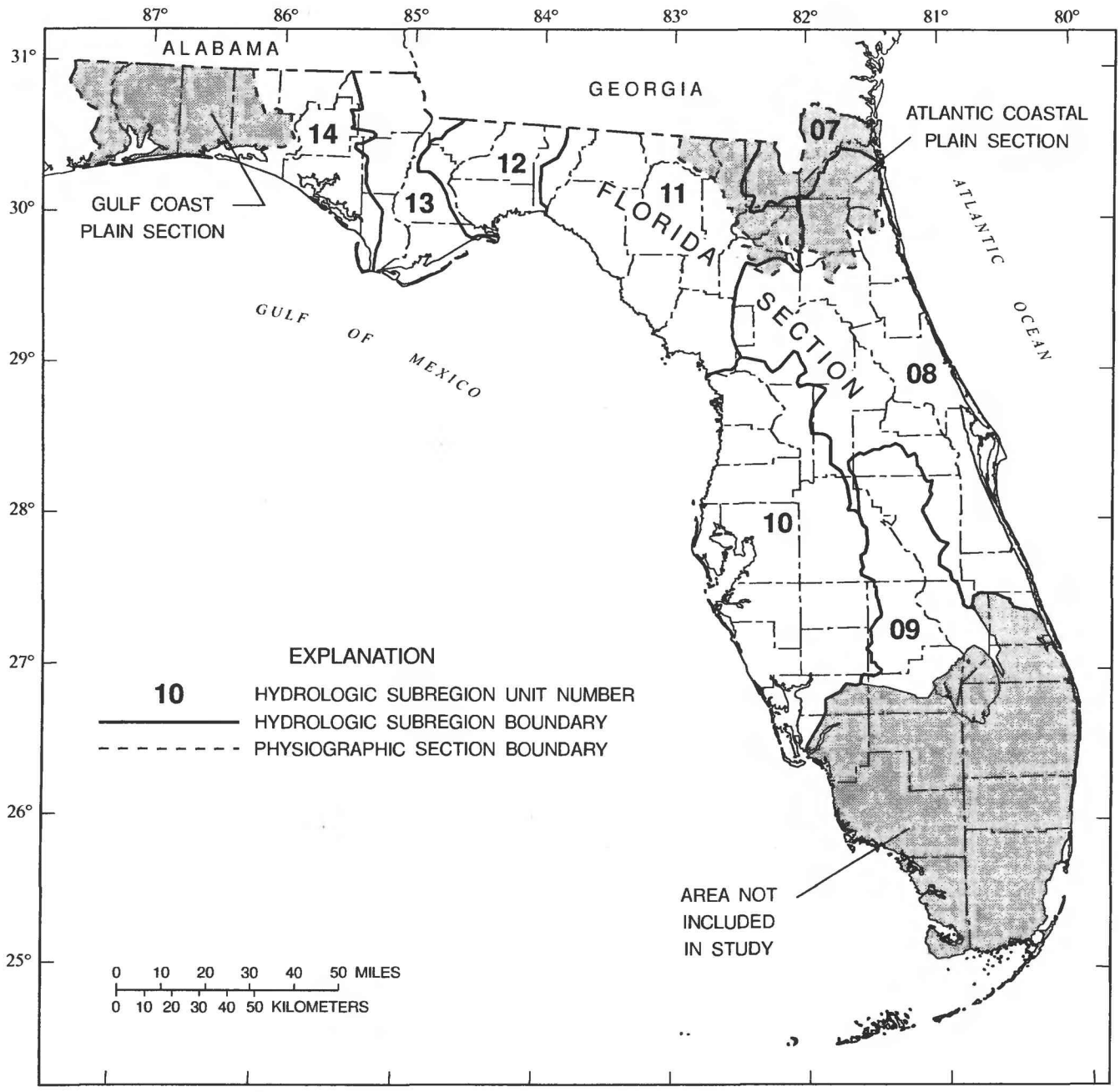

Figure 1. Study area, hydrologic subregions, and physiographic sections in Florida.

from the Floridan aquifer system which consists of a thick sequence of limestone that underlies much of the Florida Section. Extensive networks of ditches and canals are common, particularly along the east coast and in southern Florida.

Northwest Florida is located within the Gulf Coastal Plain Section of the Coastal Plain Province. This region is characterized by hilly topography with greater relief than that in peninsular Florida (Marsh, 1966). Many streams are deeply incised and derive much of their annual runoff from the sandy, surficial aquifer system that covers the region.

Northeast Florida is in the Atlantic Coastal Plain Section. Significant features include (1) a large swampy basin which forms the headwaters of the Suwannee and St. Marys Rivers, (2) two prominent sand ridges, and (3) a coastal region consisting of poorly to moderately well-drained upland flatwoods

and numerous tidally influenced tributaries which drain into the lower St. Johns River.

The climate of Florida ranges from temperate conditions in the extreme northern interior part of Florida, to subtropical conditions in the Florida Keys (National Oceanic and Atmospheric Administration, 1972). Mean annual rainfall for the State ranges from less than 50 inches in small areas in central and south Florida to more than 60 inches in areas in southeastern and northwestern Florida. The northwest area typically experiences wet periods during summer (June to August) and late winter to early spring (February to April). In the peninsular region, more than half of the annual rainfall typically occurs from June through September (Farnsworth and others, 1982). The difference between rainfall and potential evaporation is 15 to 18 inches in northwest Florida, 6 to 9 inches in northeast Florida, 3 to 6 inches in central Florida, and 0 to 12 inches in south Florida (Visher and Hughes, 1975). A more detailed summary of the climate of Florida is in a National Oceanic and Atmospheric Administration (NOAA) report entitled "Climate of the States" (1972).

Runoff in Florida streams and rivers varies geographically, seasonally, and annually. Average annual runoff in Florida is 14 inches, and ranges from 5 inches in central Florida to 40 inches in northwestern Florida (Rumenik, 1988). Geographic variability of annual runoff is greatest in the Panhandle (15 to 40 inches) region, and east-central Florida (5 to 20 inches). Distinct differences in seasonal runoff patterns are evident when comparing north Florida with the rest of the State. Monthly average flows in north Florida are generally lowest in October and November, whereas monthly average flows in central and south Florida are generally lowest in April, May, and June. Prolonged periods of deficient rainfall resulted in periods of decreased runoff, most notably in 1956 and 1962 (Bridges and Foose, 1986).

DATA USED IN THE ANALYSES

Low-flow measurement data are available at approximately 1,300 stream sites throughout Florida. Daily mean discharge data for continuous-record gaging stations were used in the analysis. Analyses for low-flow characteristics are presented for 216 continuous-record stations. Included are 158 stations located on natural unregulated streams; and 58 stations where flows are subject to regulation or diversion. Continuous-record gaging stations include active and discontinued stations that were operational for 10 or more years.

Streamflow measurement data for approximately 1,100 partial-record stations and miscellaneous sites were evaluated. Data from these sites include all measurements made during base-flow conditions, as well as observations of zero flow. One to three measurements were collected at 50 percent of the sites; four to 10 measurements, 20 percent; 10 to 30 measurements, 20 percent; and more than 30 measurements, 10 percent. A correlation process, that is described in the following section, was used to determine the usefulness of the measurement data for each site for estimating low-flow frequency characteristics. Low-flow frequency data were estimated for 249 sites where base-flow measurement data correlated with concurrent daily mean flows at continuous-record gaging stations.

Low-flow measurement data at the remaining 858 sites, although limited, might be useful for estimating low flows at these sites. Estimates at some of these sites can be improved by making additional base-flow measurements. At sites where useful correlations could not be defined, synoptic, base-flow measurements can be used to assess the variation of low-flow conditions in an area or basin. The locations of sites where low-flow measurement data are available are shown in plate 1. The number of low-flow sites in each county by hydrologic subregion and the USGS office responsible for the maintenance of data from these sites are presented in table 1.

Numerous measurements have been made at more than 200 springs throughout central and north Florida. Springs have been described as overflow or leakage from underground reservoirs, or aquifers (Rosenau and Faulkner, 1974). Spring flow can represent the total flow or a high percent of total flow in a stream during low-flow conditions. Low flows consisting largely of spring flow generally do not correlate well with streamflow at nearby continuous-record gaging-stations. For this reason, estimates of low-flow frequency data for streamflows consisting largely of spring flow were not determined. Spring-flow measurement data are not included in this report, but were published by Rosenau and others (1977).

Flow reversals, or negative flows, occurred at some sites in the study area. Flow reversals at these sites were the effect of tides or wind that temporarily changed the normal direction of flow in a stream.

Table 1. Number of sites where low-flow data have been collected in each county and hydrologic subregion, and the U.S. Geological Survey office responsible for the maintenance of the data

[JAX, Jacksonville; ORL, Orlando; TPA, Tampa; TLH, Tallahassee; -, not contained in designated subregion; *, not included in study area]

County		Hydrologic subregion shown in figure 1									USGS office			
Code	Name	07	08	09	10	11	12	13	14	Total	JAX	ORL	TPA	TLH
001	Alachua	--	12	--	--	33	--	--	--	45	12	--	--	33
003	Baker	07	--	--	--	1	--	--	--	8	7	--	--	1
005	Bay	--	--	--	--	--	--	--	17	17	--	--	--	17
007	Bradford	--	--	--	--	23	--	--	--	23	--	--	--	23
009	Brevard	--	21	--	--	--	--	--	--	21	--	21	--	--
011	Broward	--	--	*	--	--	--	--	--	*	--	--	--	--
013	Calhoun	--	--	--	--	--	--	14	0	14	--	--	--	14
015	Charlotte	--	--	0	6	--	--	--	--	6	--	--	6	--
017	Citrus	--	--	--	9	--	--	--	--	9	--	--	9	--
019	Clay	--	23	--	--	0	--	--	--	23	23	--	--	0
021	Collier	--	--	*	--	--	--	--	--	*	--	--	--	--
023	Columbia	0	--	--	--	24	--	--	--	24	0	--	--	24
025	Dade	--	--	*	--	--	--	--	--	*	--	--	--	--
027	De Soto	--	--	--	17	--	--	--	--	17	--	--	17	--
029	Dixie	--	--	--	--	1	--	--	--	1	--	--	--	1
031	Duval	1	35	--	--	--	--	--	--	36	36	--	--	--
033	Escambia	--	--	--	--	--	--	--	18	18	--	--	--	18
035	Flagler	--	8	--	--	--	--	--	--	8	7	1	--	--
037	Franklin	--	--	--	--	--	0	2	--	2	--	--	--	2
039	Gadsden	--	--	--	--	--	44	4	--	48	--	--	--	48
041	Gilchrist	--	--	--	--	4	--	--	--	4	--	--	--	4
043	Glades	--	--	6	0	--	--	--	--	6	--	6	0	--
045	Gulf	--	--	--	--	--	--	4	1	5	--	--	--	5
047	Hamilton	--	--	--	--	37	--	--	--	37	--	--	--	37
049	Hardee	--	--	--	27	--	--	--	--	27	--	--	27	--
051	Hendry	--	--	*	--	--	--	--	--	*	--	--	--	--
053	Hernando	--	--	--	9	--	--	--	--	9	--	--	9	--
055	Highlands	--	--	32	5	--	--	--	--	37	--	32	5	--
057	Hillsborough	--	--	--	89	--	--	--	--	89	--	--	89	--
059	Holmes	--	--	--	--	--	--	--	10	10	--	--	--	10
061	Indian River	--	6	--	--	--	--	--	--	6	--	6	--	--
063	Jackson	--	--	--	--	--	--	6	1	7	--	--	--	7
065	Jefferson	--	--	--	--	9	4	--	--	13	--	--	--	13
067	Lafayette	--	--	--	--	5	--	--	--	5	--	--	--	5
069	Lake	--	32	0	2	--	--	--	--	34	--	34	--	--
071	Lee	--	--	*	0	--	--	--	--	0	--	--	0	--
073	Leon	--	--	--	--	--	17	--	--	17	--	--	--	17
075	Levy	--	0	--	4	15	--	--	--	19	--	4	--	15
077	Liberty	--	--	--	--	--	12	0	--	22	--	--	--	22
079	Madison	--	--	--	--	9	--	--	--	9	--	--	--	9
081	Manatee	--	--	--	31	--	--	--	--	31	--	--	31	--
083	Marion	--	17	--	6	--	--	--	--	23	11	12	--	--
085	Martin	--	0	*	--	--	--	--	--	0	--	0	--	--
087	Monroe	--	--	*	--	--	--	--	--	*	--	--	--	--
089	Nassau	31	--	--	--	--	--	--	--	31	31	--	--	--
091	Okaloosa	--	--	--	--	--	--	--	43	43	--	--	--	43
093	Okeechobee	--	13	12	0	--	--	--	--	25	--	25	--	--
095	Orange	--	44	11	--	--	--	--	--	55	--	55	--	--
097	Osceola	--	19	20	--	--	--	--	--	39	--	39	--	--
099	Palm Beach	--	--	*	--	--	--	--	--	*	--	--	--	--
101	Pasco	--	--	--	34	--	--	--	--	34	--	--	34	--
103	Pinellas	--	--	--	24	--	--	--	--	24	--	--	24	--
105	Polk	--	2	7	41	--	--	--	--	50	--	9	41	0
107	Putnam	--	15	--	--	--	--	--	--	15	15	--	--	--
109	St. Johns	--	17	--	--	--	--	--	--	17	17	--	--	--
111	St. Lucie	--	0	--	--	--	--	--	--	0	--	0	--	--
113	Santa Rosa	--	--	--	--	--	--	--	17	17	--	--	--	17
115	Sarasota	--	--	--	43	--	--	--	--	43	--	--	43	--
117	Seminole	--	36	--	--	--	--	--	--	36	--	36	--	--
119	Sumter	--	0	--	17	--	--	--	--	17	--	0	17	--
121	Suwannee	--	--	--	--	18	--	--	--	18	--	--	--	18
123	Taylor	--	--	--	--	25	--	--	--	25	--	--	--	25
125	Union	0	--	--	--	18	--	--	--	18	0	--	--	18
127	Volusia	--	25	--	--	--	--	--	--	25	0	25	--	--
129	Wakulla	--	--	--	--	--	8	--	--	8	--	--	--	8
131	Walton	--	--	--	--	--	--	--	25	25	--	--	--	25
133	Washington	--	--	--	--	--	--	--	15	15	--	--	--	15
Totals		39	325	88	364	222	85	40	147	1,310	159	305	352	494

Daily mean discharge data and consecutive-day low flows used in the analyses to determine low-flow characteristics could include the sum of both positive and negative flows. Previous low-flow studies (Hughes, 1981 and Hammett, 1985) present negative flow results for continuous-record gaging stations as zero flow.

The low-flow data presented are geographically arranged by hydrologic units. The boundaries of hydrologic units coincide with those of river basins and include islands, estuaries, and coastal lands that are not part of river basins. The United States is divided into successive smaller hydrologic units and classified into four levels: regions, subregions, accounting units, and cataloging units. Florida lies in the South Atlantic-Gulf Region (Region 03), and is subdivided into eight subregions (subregions 07 to 14; fig. 1). A detailed explanation of hydrologic units is described by Conover and Leach (1975). Subregions were used as the primary level of classification of low-flow information.

Streamflow measurement data used in this study represent data that were collected as part of historic data programs and projects; no activities were designed to collect additional low-flow measurements. Tables 2 through 9 (back of report) list all sites where low-flow information are available through 1987. Data from which low-flow estimates were made are published by the USGS in Water Supply Papers and in the annual report series, "Water Resources Data for Florida".

The low-flow measurement data and other streamflow data are accessible through the USGS Automated DAta Processing System (ADAPS), Dempstser, (1990). The USGS in Florida maintains the ADAPS programs at four locations: the district Office in Tallahassee and at subdistrict offices in Tampa, Orlando, and Miami.

METHODS USED FOR DETERMINING LOW-FLOW CHARACTERISTICS

Methods used to determine low-flow characteristics are discussed in the following sections. Two frequency-analysis techniques were used for continuous-record stations, and two regression techniques were used for partial-record stations and miscellaneous sites.

Continuous-Record Gaging Stations

One of two frequency-analysis techniques were used to estimate low-flow characteristics at continuous-record stations with 10 or more years of daily mean discharge data. The first technique is a mathematical procedure that fits a Pearson type III distribution to the logarithms of the annual low-flow values. The second technique is a graphical fit of a curve to the plotting positions of the data generated by the Weibull plotting formula. Where the data represented by Weibull plotting position failed to fit the curve produced by the mathematical technique, the graphical technique was used (Riggs, 1972).

Annual Low-Flow Values

Low-flow data used in frequency analyses were based on a climatic year that ensures that the low-flow event is completely contained within the year. Two different climatic years were used to determine annual low-flow values at continuous-record stations. A climatic year beginning on April 1 was used in north Florida, because the lowest flows in this region generally occur in October, November, and December. A climatic year beginning on October 1 was used in central and south Florida, because the lowest flows in this region generally occur in April, May, and June. Figure 2 shows monthly variation of streamflow for selected stations in the two regions, and the climatic year divide for low flow.

Annual low-flow values for continuous-record stations were determined for 1, 3, 7, 14, 30, 60, 90, 120, and 183 consecutive day periods at continuous-record stations with 10 or more years of daily mean discharge record. Annual low-flow values represent the lowest N-day average of consecutive daily mean discharges for each climatic year during the period of record, where N denotes the consecutive day period of interest. Examples of selected N-day low-flow periods are shown in figure 3.

Frequency Analysis

Low-flow frequency characteristics were estimated through frequency analysis of the annual low-flow values at gaging stations that were not significantly affected by regulation or diversion and that had 10 or more years of continuous daily mean discharge data. Frequency analysis refers to a technique used to derive cumulative probability curves, or specific frequency characteristics (for

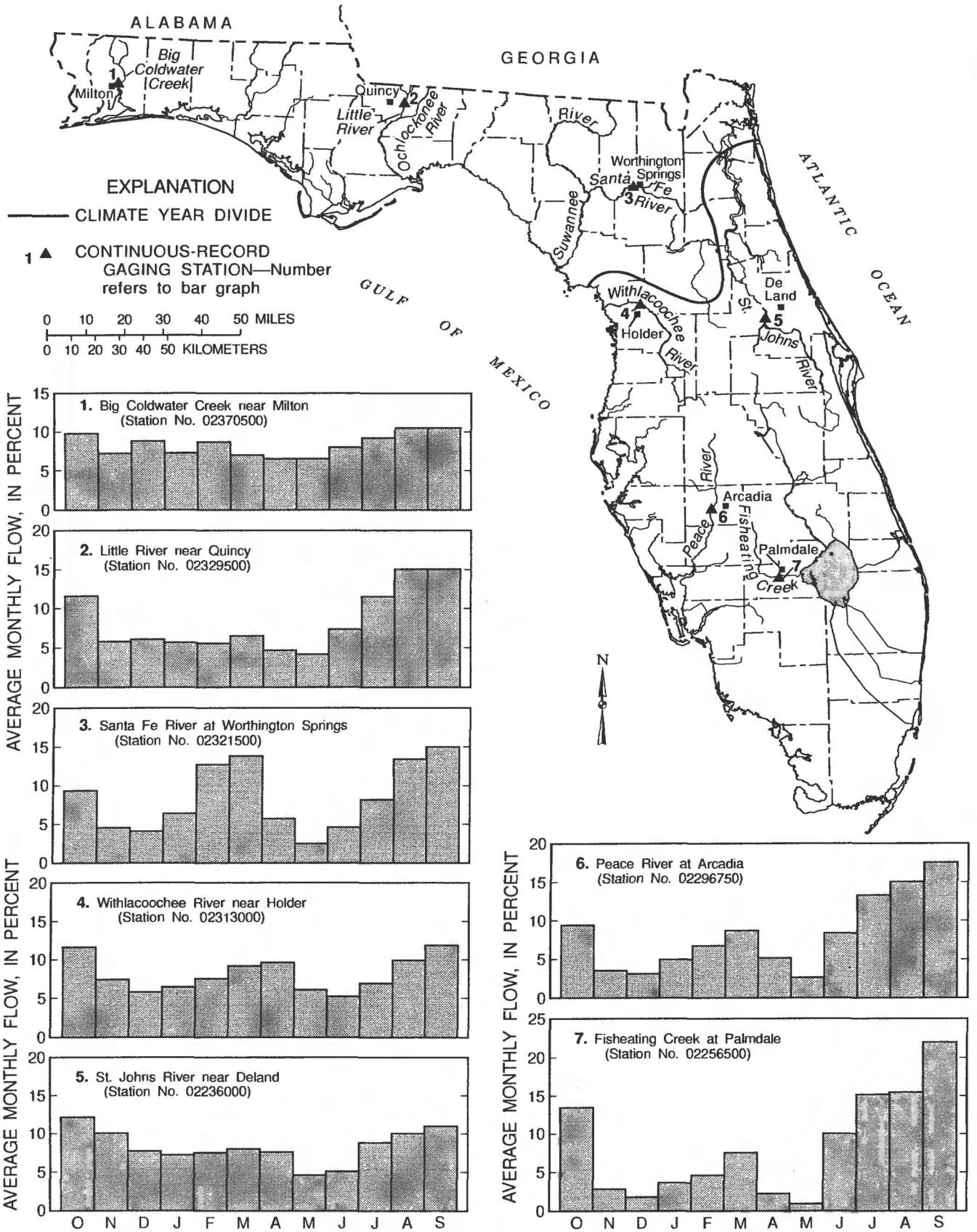

Figure 2. Monthly variation of streamflow at selected gaging stations in percentage of average annual flow, 1957-87, and climatic year divide in Florida.

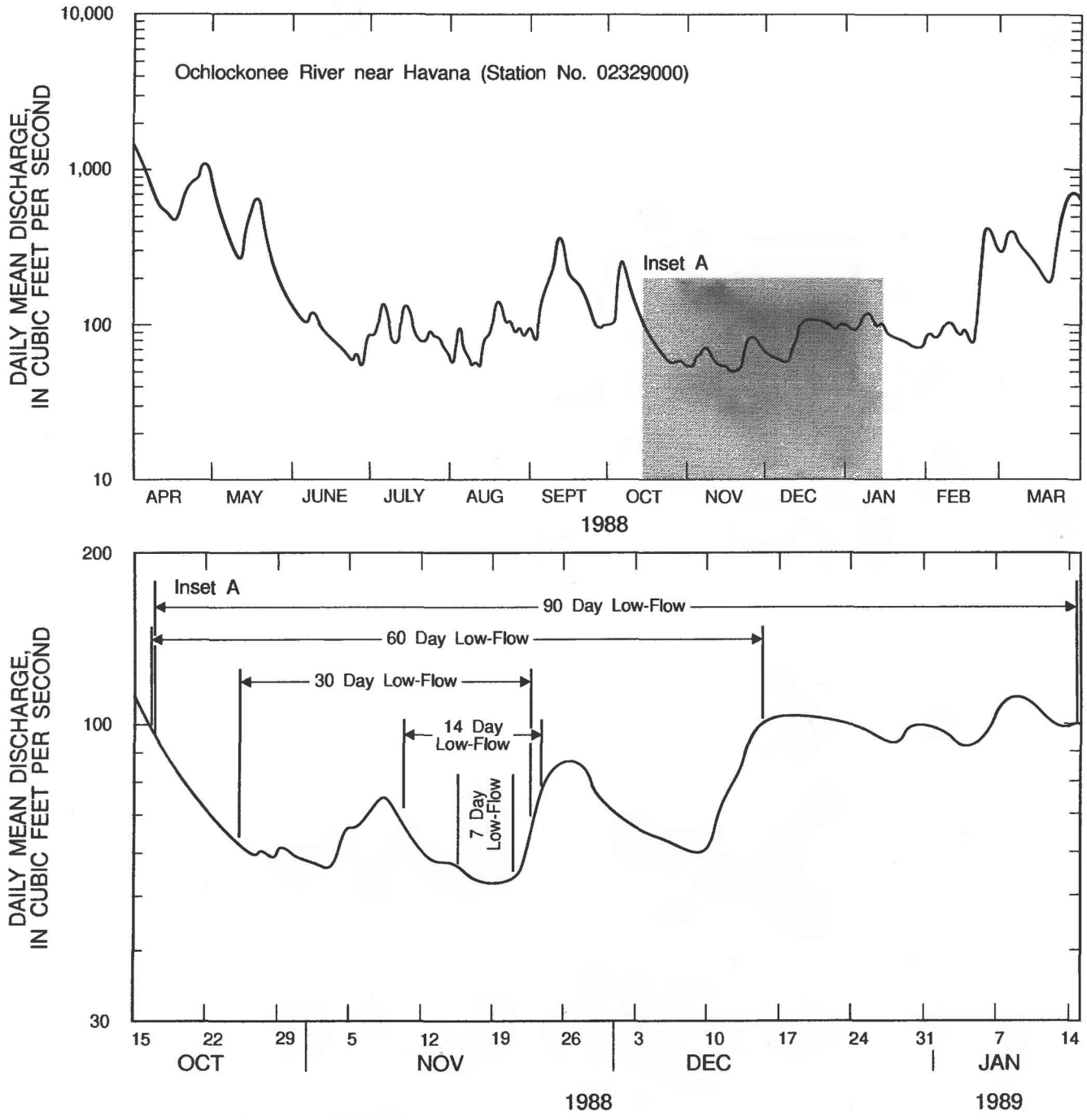

Figure 3. Daily streamflow of 02329000 Ochlockonee River near Havana, for the 1989 climatic year, for selected number of consecutive days.

example, $Q_{7,2}$) from these curves. The assumptions of frequency analysis are that the annual low flows for a given N-day period are independent, random events that are sampled from a single population distribution that is stationary in time.

One of two methods were used in the frequency analysis of annual low flows for continuous-record stations. The first method employed a mathematical technique which fit a Pearson type III distribution to the logarithms of the annual low-flow values (Interagency Advisory Committee on Water Data, 1982). Low-flow frequency characteristics were obtained from the following formula :

$$\log (Q_{N,T}) = X_N + S_N * K_T$$

where

- $Q_{N,T}$ is the frequency characteristic estimate for the N-day annual low-flow, at the T-year recurrence interval;
- X_N is the mean of the log transformed N-day annual low-flows;
- S_N is the standard deviation of the log-transformed N-day annual low flows; and
- K_T is a frequency factor that is a function of skew coefficient and recurrence interval.

Use of the mathematical technique required a conditional probability adjustment when one or more zero values were present in an annual low-flow time series (Interagency Advisory Committee on Water Data, 1982; Thomas, 1991). The adjustment procedure consists of computing a Pearson type III frequency curve based on the logarithms of the nonzero annual low flows, and then adjusting this curve by recomputing the probabilities on the basis of the number of zero annual low flows. The final Pearson type III frequency curve is based on the points formed by plotting the selected frequency characteristics at their respective adjusted probabilites. The procedures used to adjust the probabilities associated with the selected low-flow frequency characteristics are outlined by the Interagency Advisory Committee on Water Data (1982, p. 5-1, and Thomas 1991).

A serial correlation adjustment procedure (Tasker and Gilroy, 1982) was also required in some instances. Annual low-flow series sometimes exhibit high serial correlations. The presence of serial correlation in the annual low-flow time series results in an underestimation of the standard deviation of the population of annual low flows; therefore, estimates of low-flow frequency characteristics that are derived from serially-corrolated time series tend to be biased. Adjustment for serial correlation was made when the percent difference between the unadjusted and adjusted frequency characteristic estimates exceeded the time-sampling standard error (in percent) for that frequency characteristic. The adjustments result in an improved statistic (standard deviation) for the annual low-flow series that provides more accurate low-flow frequency characteristics for the station.

The second method used in the frequency analysis is a graphical technique, in which the annual low-flow observations were ranked, assigned a recurrence interval, and plotted on normal probability graph paper (Riggs, 1968b). Recurrence intervals were assigned to ranked annual low-flow observations using the Weibull plotting formula (Chow, 1964):

$$T_i = (N + 1)/M_i \ , \ i = 1, 2, 3, ..., N$$

where

- T_i is the recurrence interval, in years, for the annual low-flow value in year i;
- N is the total number of years record; and
- M_i is the rank of the annual low-flow value in year i.

Low-flow frequency characteristics were estimated from a smooth curve fit to the plotted annual low-flow observations (fig. 4). If the frequency characteristics obtained from the graphical and mathematical techniques were reasonably similar, then frequency characteristics from the Pearson type III distribution were reported; otherwise, frequency characteristics from the graphical technique were reported.

Four unregulated continuous-record stations which experience flow reversals were analyzed using the graphical technique. The Pearson type III distribution was not used for these sites because the logarithm of a negative number is not defined and untransformed annual low-flow values can produce large estimates of the skew coefficient that are unacceptable. Frequency characteristics at these sites should be interpreted with caution, because the reported value might represent the sum of positive and negative flows.

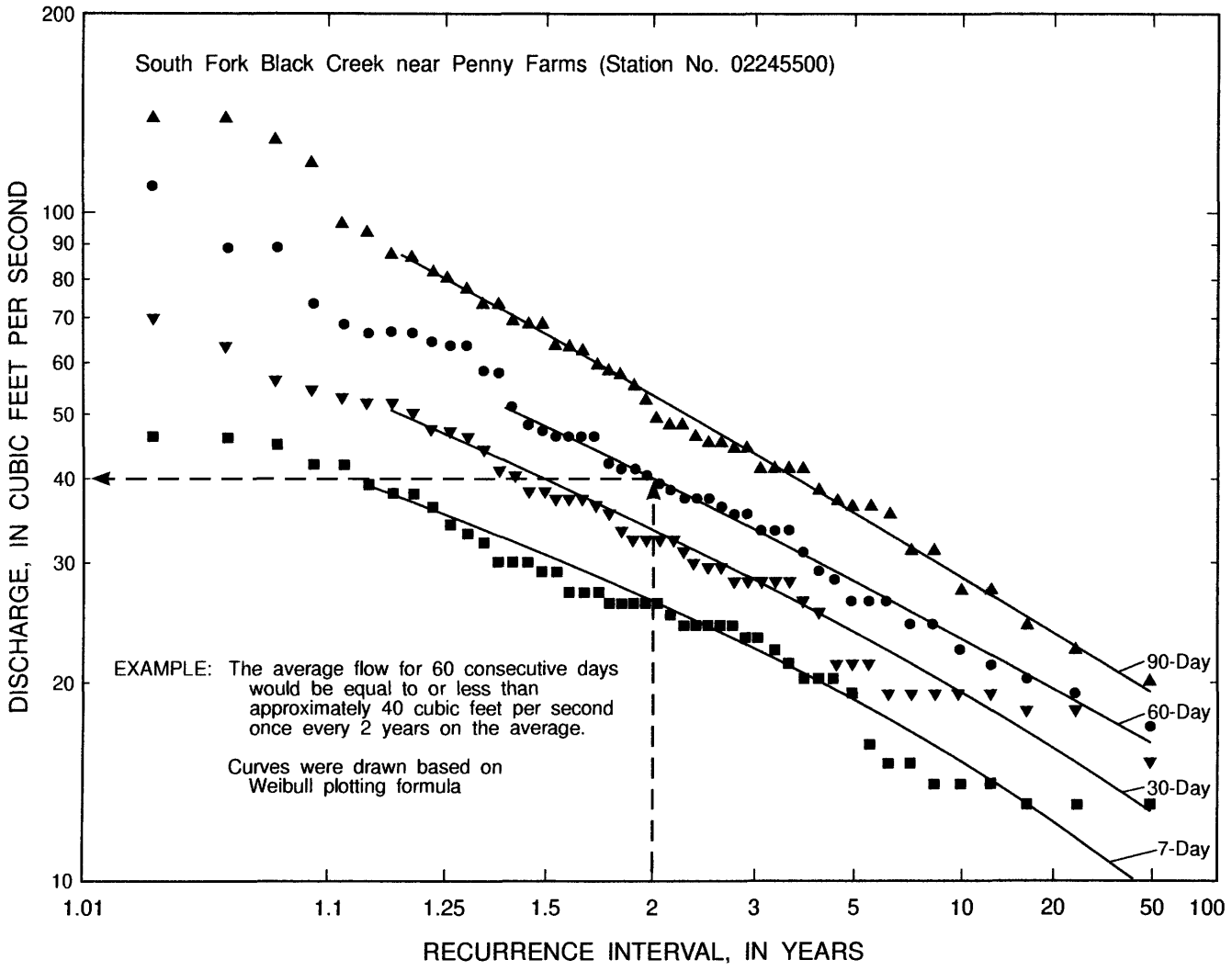

Figure 4. Low-flow frequency curves of the annual lowest daily mean discharge for the indicated number of consecutive days at 02245500 South Fork Black Creek near Penny Farms.

Sample Percentiles

Low-flow frequency characteristics were not estimated at stations that were subject to regulation and that exhibited a significant trend in their annual low-flow time series. Instead, an alternate approach for presenting low-flow information was used. For these sites, sample percentiles of the annual low-flow data were computed as low-flow characteristics rather than as estimates of low-flow frequency characteristics. Sample percentiles of 50 and 10 were calculated by ranking the annual low-flow values and computing a percent. Percentiles of 50 and 10 are analogous to the 2 and 10 year recurrence intervals used to present low-flow frequency characteristics. For example, the value for the low-flow frequency characteristic, 7-day, 2-year recurrence interval ($Q_{7,2}$), is analogous to the 50th percentile (a sample percentile) of the 7-day low-flow values used in the analysis. Otherwise expressed, the 50th percentile is the value where 50 percent of the annual low-flow values are below or equal to this value.

Regulation

Continuous-record sites subject to regulation present difficulties when using frequency analysis. Streamflow regulation practices are often implemented in an inconsistent, nonrandom manner. As a result, the assumptions of random annual low-flows arising from a stationary frequency distribution are violated. Estimates of frequency characteristics at regulated sites can be made if the pattern of regulation has been consistent over a sufficiently long period of record.

Low-flow frequency characteristics were not estimated at regulated stations because a rigorous assessment of the consistency of regulation practices was beyond the scope of this study. Instead, sample percentiles were calculated for presenting low-flow information at continuous-record stations where low streamflows were significantly affected by regulation. This approach was used at regulated stations that did not exhibit significant trends in their annual low-flow time series. If the pattern of regulation was consistent and the period of record is representative of long-term conditions, then the sample percentiles should provide a reasonable estimate of the frequency characteristics.

Trends

An assumption for frequency analysis of the annual low-flow values requires data that are free of significant trends. To test the validity of this assumption, a nonparametric test statistic, Kendal's Tau, was used to test for time trends (Hirsch, 1982). Some examples of trends that could cause changes in streamflow include increased or decreased groundwater discharge to the stream, changes in basin land use, and changing climatic patterns. Significant trends were determined by meeting three criteria: (1) the p-level, or significance level, associated with the computed value of the test statistic was less than 0.05, (2) the removal of the beginning or ending low-flow value from a given annual time series with less than or equal to 25 years of data did not cause the p-level of the test statistic to rise above 0.05, and (3) criteria (1) and (2) must be met by more than one N-day time series for a given station.

Low-flow data from unregulated, long-term streamflow gaging stations that exhibited no significant trend (comparison stations) provided the basis for adjusting low-flow frequency characteristic estimates of unregulated, continuous-record stations that do exhibit significant trends (trend stations). Regression techniques were used to adjust the low-flow frequency characteristics at the trend station by using concurrent annual N-day values from a nearby comparison station. Climatic stations were also considered as comparison stations; however, relations with precipitation data proved unsatisfactory.

The regression technique used to adjust for trends is virtually identical to that outlined in the following section on partial-record stations that describes an analytical technique for estimating low-flow frequency characteristics at partial-record stations. The only difference between the two techniques is that concurrent annual N-day low-flow values are used to fit the regression coefficients instead of concurrent measured and daily mean discharge. Once an acceptable regression relation is established, N-day low-flow frequency characterstics from the comparison station are used to predict corresponding N-day low-flow frequency characteristics at the trend station. Further discussion of this technique is provided by Riggs (1972) and Telis (1990).

Accuracy

Standard error statistics at continuous-record stations were computed for the $Q_{7,2}$, $Q_{7,10}$, $Q_{30,2}$, and $Q_{30,10}$ frequency characteristics if these statistics were estimated from a Pearson type III distribution and if all of the 7-day and 30-day annual low-flow values were greater than zero. Standard error was computed using a method described by Kite (1988), which assumes that uncertainty in the estimate of frequency characteristics is a function of uncertainty in estimating the mean, standard deviation, and skewness from a sample of N-day low-flows at the site. Factors affecting the magnitude of the standard error of a given frequency characteristic are the number of years, standard deviation, and skewness of the annual low-flow time series and the recurrence interval.

Partial-Record Stations and Miscellaneous Sites

Two regression techniques were used to estimate low-flow frequency characteristics of $Q_{7,2}$, $Q_{7,10}$, $Q_{30,2}$, and $Q_{30,10}$ at partial-record stations and miscellaneous sites. In both techniques, a relation is established between base-flow measurements at the partial-record station or miscellaneous site and concurrent daily mean flows at a nearby long-term continuous-record (index) gaging station. If an acceptable relation exists, low-flow frequency

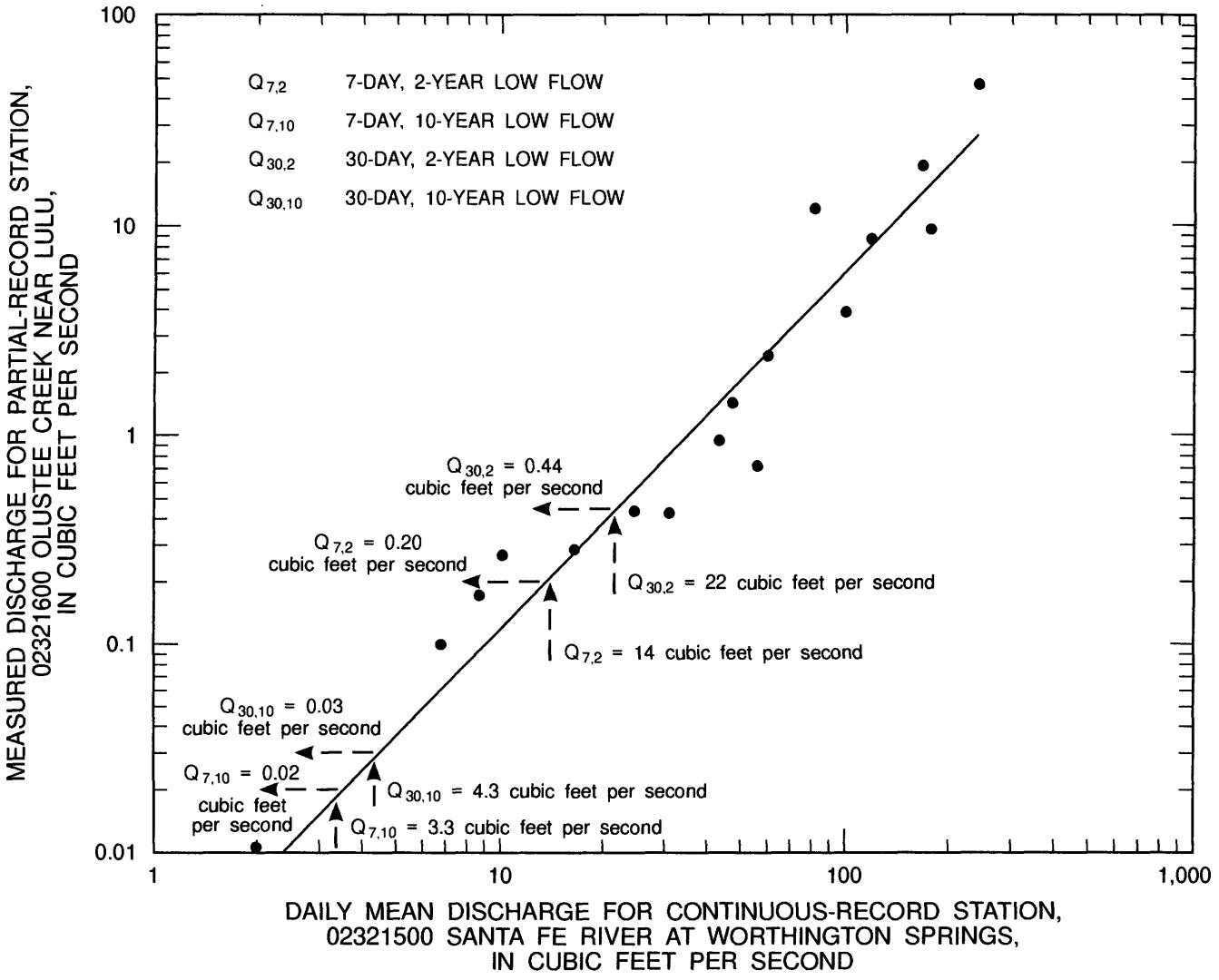

Figure 5. Discharge relation used to estimate selected low-flow frequnecy characteristics at partial-record station on Olustee Creek from low-flow characteristics at a station on Santa Fe River with daily discharge record.

characteristics at the partial-record station or miscellaneous site are estimated by transferring the low-flow frequency characteristic at the index station through the established relation (fig 5). Concurrent matched pairs of measured and daily mean flow data were not used in the regression analysis if they occurred during periods of unstable flow, or if pairs of data in the upper flow range appeared to bias the regression line. Additionally, concurrent pairs of data were not analyzed above the point where the daily mean flow was greater than twice the average flow at the index station. Generally, data are in the upper medium- to high-flow range above this point.

Analytical Regression

An analytical regression technique, maintenance of variance extension, type 1 (MOVE.1, Hirsch, 1982) was used in the analyses of sites having 10 or more base-flow measurements. The MOVE.1 technique is

similar to least squares linear regression, but the objective in fitting the data is to maintain the sample mean and variance of the dependent variable (Hirsch, 1982), rather than minimizing the sum of the squared vertical deviations from the regression line. Selection of the MOVE.1 regression method was motivated by the tendency of the least squares approach to overestimate low-flow frequency characteristics (Stedinger and Thomas, 1985). Results from an experiment by Stedinger and Thomas suggest that the MOVE.1 technique produces estimates of low-flow frequency characteristics that are nearly unbiased and have mean square error comparable to values determined by least squares regression.

Graphical Regression

A graphical technique described by Riggs (1972) was used to estimate low-flow frequency characteristics for sites where fewer than 10 base-flow measurements were available. Base-flow measurements at the partial-record station or miscellaneous site were plotted against concurrent daily mean flows at the index station, and a graphical, best-fit line was drawn to define a relation. To establish a relation using this technique, more attention is given to data points closest to the defined estimates. The low-flow frequency characteristics were obtained by transferring the respective index station frequency characteristic through the graphically defined relation line.

Zero-Flow Sites

An alternative method was used to estimate low-flow frequency characteristics at miscellaneous sites where zero flow was observed. If zero flow was observed when the concurrent daily mean flow was greater than the estimated $Q_{7,2}$ or $Q_{7,10}$ for the index station, and streamflow was relatively stable prior to and during the observation period, then the $Q_{7,2}$ and/or $Q_{7,10}$ at the miscellaneous site were assumed to be zero. Generally, more than one index station was used in this comparative process.

Accuracy

Standard error statistics were calculated for the low-flow frequency characteristic if the following three criteria were met: (1) the logarithms of the 7-day or 30-day annual low-flow values at the index station fit a Pearson type III distribution, (2) the MOVE.1 technique was used in the analysis, and (3) residual plots supported the assumption of a constant error variance. Standard error of low-flow frequency characteristic at partial-record stations and miscellaneous sites is a function of standard error of prediction (from the regression analysis) and time-sampling error of the low-flow frequency characteristic of the index station used in the regression (as determined by Kite's method (1988)).

The standard error of prediction of the MOVE.1 line is a measure of the fit of the correlation of discharge data for two stations. This standard error of prediction is (1) a function of the scatter of the data about the line, (2) the number of concurrent measurements used to develop the line, and (3) the distance required to extend the lower portion the the MOVE.1 line from the measurements to predict low-flow characteristics at the parial-record station. The standard error of prediction for the MOVE.1 line for a selected recurrence interval is computed using an equation developed by W.O. Thomas, Jr. (U.S. Geological Survey, written commun., 1988):

$$SE_{pred,t} = \left[(SE_{ols})^2 \left(1 + \frac{1}{L} + \frac{(X_t - \bar{X})^2}{\sum_{i=1}^{L} (X_i - \bar{X})^2} \right) + \left(\frac{SY}{SX} \right)^2 (1 - r)^2 \left(X_t - \bar{X} \right)^2 \right],$$

where:

- $SE_{pred,t}$ is the standard error of prediction in log units of the MOVE.1 line for the t-year recurrence interval;
- SE_{ols} is the standard error in log units of the ordinary least-squares regression for the correlation;
- L is the number of discharge measurements used in the correlation;
- X_t is the logarithm of the t-year low-flow characteristic for the index station;
- $\bar{X}$ is the mean of the logarithms of the concurrent discharges for the index station;
- X_i is the logarithm of the i-th discharge for the index station;
- SY is the standard deviation of the logarithms of the measured discharges for the partial-record station;

SX is the standard deviation of the logarithms of the concurrent discharges for the index station; and

r is the correlation coefficient.

The standard error of the estimate of low-flow characteristics at the partial-record station was computed using the standard error of prediction of the MOVE.1 line and the time-sampling error computed for the index station. This estimate was computed using an equation developed by W.O. Thomas, Jr. (U.S. Geological Survey, written commun., 1988):

$$SE_{pr,t} = \left[SE^2_{pred,t} + \left(\frac{SY}{SX}\right)^2 (SE_{g,t})^2\right]^{0.5},$$

where:

$SE_{pr,t}$ is the standard error in log units for a t-year recurrence interval at a partial-record station;

$SE_{g,t}$ is the time-sampling error in log units for a t-year recurrence interval at the index station; and

$SE_{pred,t}$ SY, and SX are as previously defined.

The standard errors presented in this study were converted to percentages. Accuracy of low-flow characteristics that were determined by the graphical method and estimates of low-flow characteristics for partial-record stations with observations of zero flow were not defined.

RESULTS OF LOW-FLOW ANALYSES

Tables 2 through 9 list approximately 1,300 stream sites where low-flow measurement data are available. Tables 10 through 17 (at back of report) list the results of low-flow analyses to determine the low-flow characteristics for 216 continuous-record gaging stations and 242 partial-record stations and miscellaneous sites. Plate 2 illustrates the areal distribution of sites where low-flow characteristics are defined within each of the hydrologic subregions in Florida.

Tables 10 through 17 list estimates of low-flow frequency characteristics at 143 unregulated, continuous-record stations for periods of 1, 3, 7, 14, 30, 60, 90, 120, and 183 consecutive days, and recurrence intervals of 2, 5, 10, 20, and 50 years; and, at 249 partial-rcord stations and miscellaneous sites for periods of 7 and 30 consecutive days, and recurrence intervals of 2 and 10 years. Additionally, sample percentiles are presented for 73 continuous-record stations: 32 stations where low flows were subject to regulation or diversion (see "remarks" in tables 10 through 17); and 26 regulated, and 15 unregulated stations where significant trends occur in the annual low-flow time series (see "remarks" in tables 10 through 18, back of report). Sample percentiles of 50 and 10 are presented for the same N-day periods as previously discussed.

Tables 10 to 17 also include information regarding the location of the site, hydrologic unit, drainage area, tributary status, type of site, period of record used in the analysis, basis of the estimate of low flow, accuracy of the estimate, and site specific remarks. When evaluating estimates of low flow, the length and period of record, the number of measurements, accuracy, remarks, and the location and characteristics of the index station used in the correlation analysis should be considered.

In some streams, low-flow statistics can decrease from upstream to downstream sites along the reach of a stream for reasons not always obvious. The "remarks" paragraph in tables 10 through 17 offer some explanation of conditions and situations that might alter streamflows, such as nearby ground-water pumpage, or water being diverted periodically. Low flow can also decrease downstream under natural conditions such as flow discharging to a sink, or where seepage from the stream to the aquifer is large in a reach.

Significant trends in the annual low-flow time series were indicated for 43 continuous-record gaging stations (trend stations). Only two of the 43 trend stations (unregulated), 02321500 Santa Fe River near High Springs and 02366000 Holmes Creek near Vernon, met the criteria necessary for adjustment. The geographic distribution of these stations is shown in figure 6. The greatest concentrations of trend stations were in the Santa Fe River, Peace River, and Kissimmee River basins. Most of the remaining stations were located near major population centers in central and west central Florida. More than half of the trend stations were subject to some degree of regulation or diversion. None of the precipitation comparison stations exhibited trends similar to those at the trend station.

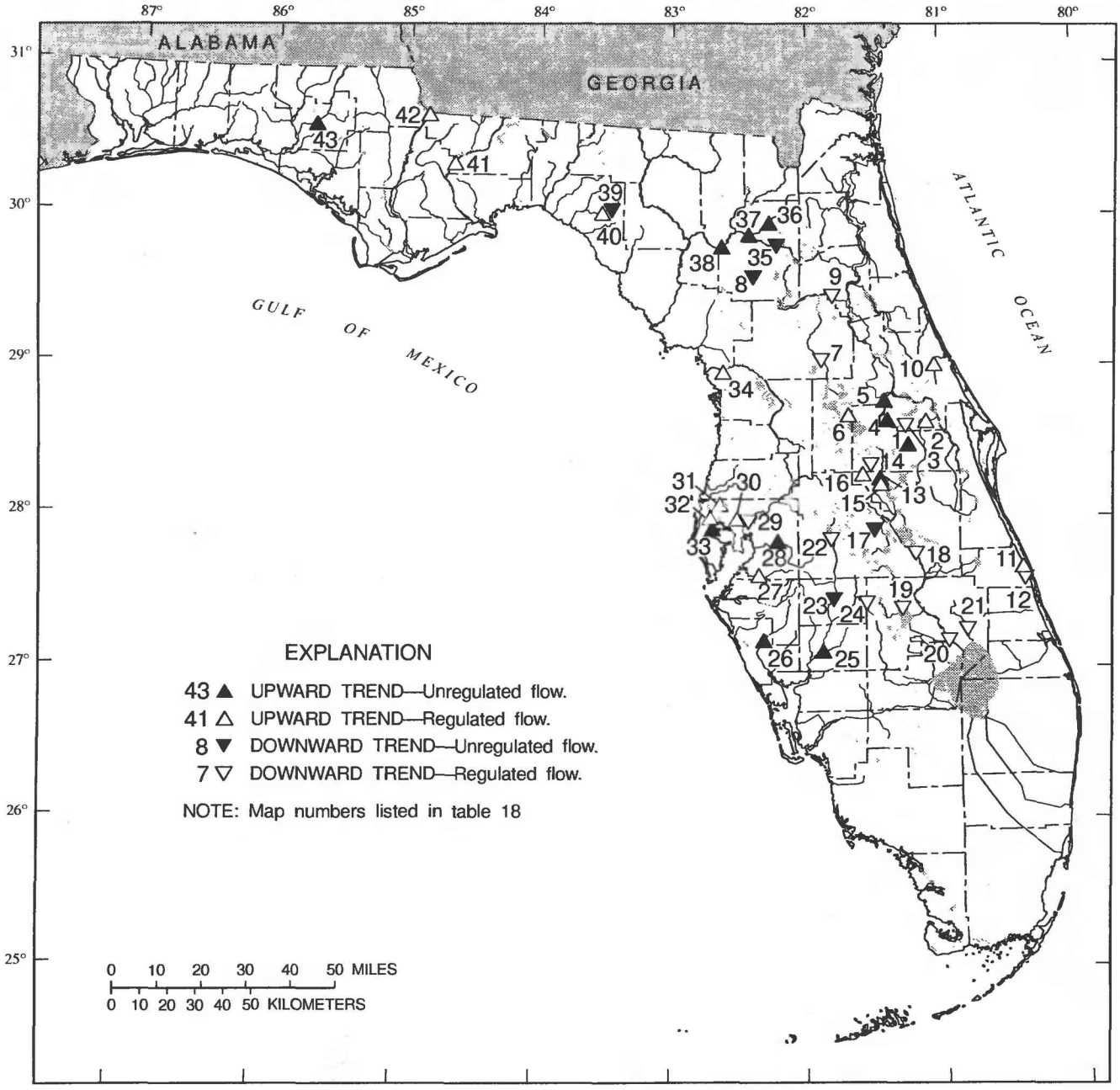

Figure 6. Distribution of continuous-record gaging stations with significant trends in two or more N-day low-flow time series.

ASSUMPTIONS AND LIMITATIONS OF LOW-FLOW CHARACTERISTICS

The assumption that is associated with estimation of low-flow frequency characteristics is that hydrologic and climatic conditions in the past are similar to current conditions and that those conditions will remain constant. Several factors can cause changes in the ground-water discharge to streams and canals. Urban growth that results in reduced infiltration rates and large-scale ground-water pumpage that reduces ground-water levels in the surficial aquifer are examples of factors associated with decreased ground-water discharge. Conversely, excavation on canals and channels can lower water levels and remove water more quickly from an area than would normally occur, thereby increasing the ground-water discharge to streams and canals. Climatic changes also may significantly increase or decrease ground-water discharge to streams and canals. Knowledge of past conditions and potential changes in the basin should provide insight into the accuracy of the low-flow estimate. The methods used in this study to determine low-flow frequency characteristics were those developed for natural, unregulated streams.

Sample percentiles were used to identify low-flow characteristics at gaging stations if a stream was subject to regulation or diversion or if significant changes in low streamflow patterns occurred with time (trends). Percentiles of the annual low-flow values for 50 and 10 are presented in tables 10 through 17. Sample percentiles presented apply only to the period for which the data were analyzed and are not characteristic of current conditions.

Based on the period of record the following criteria were set for presenting low-flow data for continuous-record gaging stations in tables 10 through 17: (1) stations must have been operational for 10 or more years, (2) data at stations with more than 15 years of record available were extended to include the 20-year recurrence interval, and (3) data at stations with 30 or more years of record were extended to include the 50-year recurrence interval. Within these limits, low-flow data were analyzed and either tabulated for recurrence intervals of 2, 5, 10, 20, and 50 years or, for sample percentiles of 50 and 10 percent.

The accuracy of the statistics in tables 10 through 17 was limited to those stations where low-flow frequency characteristics were determined by a mathematical distribution at continuous-record stations, and by analytical regression at partial-record stations and miscellaneous sites where the low-flow frequency characteristics for the index station used in the correlation process was determined by a mathematical distribution.

SUMMARY AND CONCLUSIONS

Low-flow characteristics can provide useful information for managing a variety of water quality and allocation problems. Low-flow measurement data for streams and rivers in Florida are accessible through the U.S. Geological Survey Automated Data Processing System. Low-flow measurement data are available at approximately 1,300 continuous-record gaging stations, partial-record stations and miscellaneous sites. Low-flow characteristics were determined for 216 continuous-record gaging stations using frequency analysis techniques. Included are low-flow frequency characteristics for 143 unregulated gaging stations; sample percentiles for 32 stations that were subject to regulation or diversion, and 41 stations, regulated and unregulated, that exhibited significant trends in the annual low-flow time series. Adjustments were made to the low-flow frequency characteristics at two of these stations. Estimates of low-flow frequency characteristics at 242 partial-record stations and miscellaneous sites were obtained through regression analysis of discharge measurements at partial-record stations and daily mean discharges at continuous-record stations.

To evaluate estimates of low flows for continuous-record gaging stations, the user needs to consider the length and period of record, accuracy of the low flows, and site specific remarks. Additionally, for partial-record stations and miscellaneous sites, the length and period of record, the number of measurements, accuracy of the low flows, site specific remarks, and the location and characteristics of the index station used in the regression analysis are important considerations.

Results from the current study indicate other areas for future study, such as the estimation of low-flow frequency characteristics at ungaged locations using regionalization techniques and improving estimates at gaged locations. Although traditional techniques of regionalization have been used with only limited success in Florida, improved estimation techniques, such as approaches designed for streams

some regions. Given the important role that ground-water contributions play in the low-flow characteristics of many of Florida's streams, evaluation of new predictor variables that account for variability in ground-water discharge could also greatly improve estimates of frequency characteristics at ungaged sites. Improved regional estimation procedures could also increase the accuracy of estimates at gaged locations by integrating information from several nearby gages. Streamflow routing or analysis of data from seepage runs, could also be used to estimate frequency characteristics at ungaged sites if other techniques prove unsuccessful.

Another potential subject for additional study is the estimation of low-flow frequency characteristics at sites subject to trends that arise because of changing land use, water use, or regulation patterns. Closely associated with the continuing population growth in Florida are changes in land and water use, which potentially could affect base-flow characteristics of streams. The results of this study showed that approximately 25 percent of the continuous-record gaging stations exhibited trends in two or more of their annual low-flow time series With the exception of the Santa Fe River basin, the distribution of these stations coincided with areas near large metropolitan centers that have experienced major population growth, areas of intensive land-use practices (mining operations or agriculture), and areas subject to regulation, diversion or construction of channels. When factors such as changing land- or water-use patterns or non-uniform regulation practices influence annual streamflow minimums, assumptions made as part of low-flow frequency analysis are invalid. These factors also compromise the ability of the stream gaging network to estimate streamflow characteristics at partial-record stations or miscellaneous sites.

An examination of historic land use, water use, or regulation patterns and the relation of these factors to trends in annual low flows through the use of statistical and simulation approaches could significantly improve current capabilities of estimating low-flow characteristics under changing or regulated conditions. The results of such studies could also indicate the need for integrating the collection of land use, water use, and streamflow data in areas subject to significant changes.

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Tables 2-18

Table 2. Streamflow sites in subregion 07 (St. Marys River) where low-flow information is available

ID, identification; mi^2, square mile]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code. See table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Grey line indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 10.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03070204 (ST. MARYS RIVER BASIN)							
07-1	02228500	NORTH PRONG ST. MARYS RIVER AT MONIAC	160	003	3031030821350	DV	GS
07-2	02229000	MIDDLE PRONG ST. MARYS RIVER AT TAYLOR	125	003	3026100821715	DV	GS
07-3	02229300	CEDAR CREEK NEAR GLEN ST. MARY	71.4	003	3020200821200	1	MS
07-4	02229500	SOUTH PRONG ST. MARYS RIVER NEAR SANDERSON	57.8	003	3012170821549	35	GS, MS
07-5	02230000	TURKEY CREEK AT MACCLENNY	19.9	003	3016080820721	DV	GS, PM
07-6	02230500	SOUTH PRONG ST. MARYS RIVER AT GLEN ST. MARY	156	003	3016400820840	DV	GS
07-7	02231000	ST. MARYS RIVER NEAR MACCLENNY	700	003	3021310820454	DV	GS
07-8	02231050	DEEP CREEK NEAR BALDWIN	23.2	089	3018020820150	16	LF
07-9	02231051	DEEP CREEK TRIBUTARY NO. 3 NEAR BALDWIN	1.89	089	3018300820030	1	MS
07-10	02231052	DEEP CREEK TRIBUTARY NEAR BALDWIN	53	089	3018500820030	3	MS
07-11	02231054	DEEP CREEK TRIBUTARY NO. 2 NEAR BALDWIN	6.71	089	3019300820030	5	MS
07-12	02231065	BRANDY BRANCH NEAR BRYCEVILLE	62.5	089	3022000820100	6	LF
07-13	02231070	ST. MARYS RIVER TRIBUTARY NEAR BRYCEVILLE	1.67	089	3024200820150	5	MS
07-14	02231080	DEEP CREEK NEAR BRYCEVILLE	10.1	089	3027200820020	4	MS
07-15	02231085	ST. MARYS RIVER TRIBUTARY NO. 2 NEAR KENT	3.29	089	3028520815955	3	MS
07-16	02231100	ST. MARYS RIVER NEAR ST.GEORGE, GA.	890	089	3031280820107	5	MS
07-17	02231105	ST. MARYS RIVER TRIBUTARY NO. 4 NEAR KENT	1.1	089	3032300815950	3	MS
07-18	02231110	MILL CREEK NEAR KENT	31.0	089	3034000815930	5	MS
07-19	02231120	DEEP CREEK NEAR KENT	11.2	089	3036000820000	4	MS
07-20	02231130	STAVE BRANCH NEAR HILLIARD	.28	089	3037440820046	3	MS
07-21	02231145	DUNN CREEK NEAR BOULOGNE	9.91	089	3042260820119	4	4
07-22	02231150	LITTLE DUNN CREEK AT BOULOGNE	8.72	089	3043030820025	16	LF
07-23	02231170	BRUSHY CREEK NEAR BOULOGNE	.85	089	3043500815940	3	MS
07-24	02231230	PIGEON CREEK AT BOULOGNE	9.36	089	3045390815804	20	CG, LF, GS
07-25	02231238	ST. MARYS RIVER TRIBUTARY NO. 5 AT KINGS FERRY	.16	089	3046400815050	3	MS
07-26	02231242	CABBAGE CREEK NEAR KINGS FERRY	2.69	089	3045100815130	1	MS
07-27	02231250	LITTLE ST. MARYS RIVER NEAR HILLIARD	19.8	089	3043550815335	23	MS, GS
07-28	02231251	LITTLE ST. MARYS RIVER AT LESSIE	39.5	089	3042300814640	1	MS
07-29	02231252	WILDER CREEK AT LESSIE	7.91	089	3042400814640	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03070205 (COASTAL AREA BETWEEN ST. MARYS AND ST. JOHNS RIVERS)							
07-30	02231260	MILLS CREEK NEAR HILLIARD	17.6	089	3038210815147	15	CG, LF
07-31	02231263	MILLS CREEK NEAR CALLAHAN	3.9	089	3037500814740	1	MS
07-32	02231268	ALLIGATOR CREEK AT CALLAHAN	24.0	089	303359081500I	54	GS
07-33	02231270	ALLIGATOR CREEK NEAR CALLAHAN	25.8	089	3034290814915	2	MS
07-34	02231272	CUSHING CREEK AT CALLAHAN	19.9	089	3033300814910	5	MS
07-35	02231275	PLUMMER CREEK NEAR ITALIA	11.3	089	3037530814106	3	MS
07-36	02231280	THOMAS CREEK NEAR CRAWFORD	29.9	031	3027390814957	DV	GS
07-37	02231282	THOMAS CREEK NEAR CALLAHAN	52.6	089	3030200814730	3	MS
07-38	02231284	THOMAS CREEK AT STATE HIGHWAY 115 NEAR CALLAHAN	64.1	089	3031000814550	7	MS
07-39	02231290	LOFTON CREEK NEAR YULEE	10.4	089	3039460813807	15	LF

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Grey line indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 11.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080101 (ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER)							
08-02	02231324	FORT DRUM CR.TRIB NO.2 AT FORT DRUM	18.4	093	2730450804826	1	MS
08-03	02231327	TRIBUTARY TO FORT DRUM CR.TRIB NEAR FORT DRUM	--	093	2730190804824	1	MS
08-04	02231329	FORT DRUM CREEK AT FORT DRUM	25.3	093	2731220804756	1	MS
08-05	02231331	FORT DRUM CREEK TRIB NO.3 AT FORT DRUM	--	093	2732070804834	1	MS
08-06	02231333	FORT DRUM CREEK NEAR FORT DRUM.	28.4	093	2732500804759	1	MS
08-07	02231337	SWEETWATER BR AT U.S. HWY 441 NEAR FORT DRUM	3.48	093	2734170804957	1	MS
08-08	02231339	PARKER SLOUGH NEAR FORT DRUM	4.65	093	2735040805019	3	MS
08-09	02231340	SWEETWATER BRANCH NEAR FORT DRUM	9.82	093	2733580804903	1	MS
08-10	02231341	BOGGY BRANCH NEAR FORT DRUM	8.41	093	2733000804908	1	MS
08-11	02231342	FORT DRUM CR AT SUNSHINE ST PKY NEAR FT DRUM	52.6	093	2734060804747	DV	GS
08-12	02231345	JIM GREEN CREEK NEAR FORT DRUM	12.8	093	2735220804828	1	MS
08-13	02231355	PADGETT BRANCH NEAR OSOWAW	6.38	093	2738420805237	1	MS
08-14	02231357	PADGETT BRANCH TRIB NO.2 NEAR YEEHAW JUNCTION	--	097	2739000805245	1	MS
08-15	02231360	PADGETT BRANCH NEAR YEEHAW JUNCTION	20.2	097	2740060804807	3	MS
08-16	02231372	BLUE CYPRESS CREEK TRIB. NO. 2 NEAR LOKOSEE	.88	097	2746410805528		
08-17	02231375	BLUE CYPRESS CREEK TRIB. NO. 2 NEAR LOKOSEE	32.4	097	2746410805528	2	MS
08-18	02231380	BLUE CYPRESS CREEK NEAR YEEHAW JUNCTION	59.8	097	2754410805320	3	MS
08-19	02231386	COW LOG BR AT U.S. HWY 441 NEAR YEEHAW JCT	7.90	097	2739460805309	1	MS
08-20	02231390	COW LOG BRANCH NEAR YEEHAW JUNCTION	20.5	097	2741190805252	37	MS PM
08-21	02231392	COW LOG BR TRIB. NO. 2 AT YEEHAW JUNCTION	1.10	097	2742230805429	1	MS
08-22	02231396	BLUE CYPRESS CREEK NEAR FELLSMERE	105	061	2743400804819	7	MS LF
08-23	02231467	ST. JOHNS R AB L HELEN BLAZES NEAR MELBOURNE	661	009	2759430804730	2	MS
08-24	02231475	BULL CREEK NEAR HOLOPAW	31.7	097	2801530810221	7	MS LF
08-25	02231480	BULL CREEK TRIB. NEAR KENANSVILLE	.80	097	2800190810127	1	MS
08-26	02231496	PADGETT BRANCH NEAR KENANSVILLE	4.36	097	2757590810023	1	MS
08-27	02231512	WEST BRANCH CRABGRASS CREEK NEAR HOLOPAW	7.15	097	2804490810415	3	MS
08-28	02231565	CRABGRASS CREEK NEAR HOLOPAW	30.2	097	2807480810007	103	MS PM CG
08-29	02231600	JANE GREEN CREEK NEAR DEER PARK	248	097	2804270805318	DV	GS
08-30	02232000	ST. JOHNS RIVER NEAR MELBOURNE	968	009	2805040804508	DV	GS
08-31	02232155	PENNYWASH CREEK NEAR DEER PARK	17.2	097	2810540805344	3	MS
08-32	02232162	ST. JOHNS TRIB. CANAL NEAR DEER PARK	--	009	2812530805113	3	MS
08-33	02232200	WOLF CREEK NEAR DEER PARK	25.7	097	2812460805440	DV	GS
08-34	02232227	COX CREEK NEAR DEER PARK	--	097	2817100805515	1	MS
08-35	02232400	ST. JOHNS RIVER NEAR COCOA	1,381	009	2822100805222	DV	GS
08-36	02232413	TAYLOR CREEK ABOVE S-164 NEAR COCOA	52.0	009	2820230805606	10	MS GS
08-37	02232415	TAYLOR CREEK NEAR COCOA	54.3	009	2821080805543	7	MS
08-38	02232450	JIM CREEK NEAR CHRISTMAS	22.7	095	2826070805758		MS, LF, CG
08-39	02232451	JIM CREEK AT COUNTY ROAD NEAR CHRISTMAS	23.0	095	2826160805744	1	MS
08-40	02232455	SECOND CREEK NEAR CHRISTMAS	13.8	095	2826540805825	5	MS
08-41	02232458	SETTLEMENT CREEK NEAR CHRISTMAS	6.14	095	2827330805919	4	MS
08-42	02232500	ST. JOHNS RIVER NEAR CHRISTMAS	1,540	095	2832340805637	DV	GS
08-43	02232505	SAVAGE CREEK AT CHRISTMAS	3.69	095	2832220810110	1	CG MS
08-44	02232550	TOOTOOSAHATCHEE CREEK NEAR CHRISTMAS	13.9	095	2830040810003	6	MS
08-45	02232660	SIXMILE CREEK NEAR MIMS	20.2	009	2839550805427	1	MS

Table 3. Streamflow sites in subregion 08 (St. Johns River) where low-flow information are available--Continued

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STREAMFLOW SITES IN HYDROLOGIC UNIT 03080101 (ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER)--CONTINUED							
08-46	02232699	ST. JOHNS RIVER NEAR TITUSVILLE	1,630	009	2836130805813	1	MS
08-47	02232702	CHRISTMAS CREEK NEAR CHRISTMAS	3.65	095	2834080810136	4	MS
08-48	02232705	JOSHUA CREEK NEAR CHRISTMAS	2.71	095	2834310810311	1	MS
08-49	02232712	ROBERTS BRANCH NEAR BITHLO	3.35	095	2835540810432	3	MS
08-50	02233000	DISSTON CANAL NEAR BITHLO	4.28	095	2825200810717	5	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080101 (ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER)							
08-51	02233001	ECONLOCKHATCHEE R AT MAGNOLIA RANCH NEAR BITHLO	32.9	095	2825270810710	DV	GS
08-52	02233100	ECONLOCKHATCHEE RIVER NEAR BITHLO	119	095	2833540810916	1	MS
08-53	02233102	ECONLOCKHATCHEE RIVER TRIB. NEAR BITHLO	1.83	095	2833550811119	41	MS CG GS
08-54	02233104	ECONLOCKHATCHEE RIVER AT HWY 420 NEAR BITHLO	--	095	2834590811007	1	MS
08-55	02233129	LITTLE ECONLOCKHATCHEE R TRIB. NEAR ORLANDO	--	095	2833430811812	1	MS
08-56	02233150	L ECON R TRIB. AT SH 15A, NEAR ORLANDO	8.59	095	2831160811713	1	MS
08-57	02233157	TRIB. TO L ECON R TRIB. NEAR ORLANDO	.56	095	2830400811648	1	MS
08-58	02233164	L ECON R TRIB. AT ST HWY 526A, NEAR ORLANDO	11.1	095	2830350811617	1	MS
08-59	02233172	L ECON R TRIB. NO.2 NEAR ORLANDO	1.44	095	2830350811534	1	MS
08-60	02233182	L ECONHATCHEE R TRIB. NO.3 NEAR ORLANDO	.42	095	2835300811507	1	MS
08-61	02233193	LITTLE ECONLOCKHATCHEE RIVER NEAR ORLANDO	26.8	095	2830360811450	1	MS
08-62	02233200	LITTLE ECONLOCKHATCHEE R NEAR UNION PARK	27.1	095	2831290811439	DV	GS
08-63	02233250	LITTLE ECON. R TRIB. NO.4, NEAR ORLANDO	7.92	095	2832040811426	1	MS
08-64	02233300	LITTLE ECONLOCKHATCHEE R AT UNION PARK	39.4	095	2834060811506	2	MS
08-65	02233446	SUSANNAH-CORRINE DITCH AT ORLANDO	.63	095	2833570811916	3	MS
08-66	02233451	LAKE CORRINE OUTFLOW AT SAL RR NEAR ORLANDO	2.11	095	2834220811857	2	MS
08-67	02233452	LAKE CORRINE OUTFLOW NEAR ORLANDO	4.18	095	2834080811740	1	MS
08-68	02233455	LAKE CORRINE OUTFLOW TRIB. NEAR ORLANDO	2.16	095	2834050811650	1	MS
08-69	02233462	LAKE CORRINE OUTFLOW TRIB. NO.2 NEAR ORLANDO	2.04	095	2834050811537	1	MS
08-70	02233463	LAKE CORRINE OUTFLOW .1 MI AB MO NEAR ORLANDO	20.2	095	2834180811512	1	MS
08-71	02233464	LITTLE ECONLOCKHATCHEE RIVER NEAR OVIEDO	59.9	117	2834230811511	1	MS
08-72	02233465	LITTLE ECON. RIVER AT SH 425 NEAR ORLANDO	60.2	095	2834450811443	1	MS
08-73	02233468	LITTLE ECON. RIVER TRIB. NO.5 NEAR ORLANDO	2.79	095	2834080811338	1	MS
08-74	02233472	LITTLE ECON. RIVER TRIB. NO.6 NEAR ORLANDO	2.74	095	2835310811328	1	MS
08-75	02233474	LITTLE ECON. RIVER AT IRON BR RD NEAR OVIEDO	70.0	095	2836370811333	5	MS
08-76	02233484	ECONLOCKHATCHEE RIVER NEAR OVIEDO	225	117	2839190811012	2	MS
08-77	02233500	ECONLOCKHATCHEE RIVER NEAR CHULUOTA	241	117	2840400810651	DV	GS
08-78	02233750	MILLS BRANCH AT CHULUOTA	8.75	117	2837530810721	3	MS
08-79	02233800	SILCOX BRANCH NEAR CHULUOTAA	--	117	2836580810617	3	MS
08-80	02234000	ST. JOHNS RIVER ABOVE LAKE HARNEY NEAR GENEVA	2,040	117	2842500810208	107	MS PM GS
08-81	02234010	ST. JOHNS RIVER AT OSCEOLA	2,090	117	2847370810329	6	MS PM
08-82	02234057	LAKE ASHBY TRIB. AT ALAMANA	--	127	2856330810610	1	MS
08-83	02234100	DEEP CREEK NEAR OSTEEN	140	127	2850460810446	DV	GS
08-84	02234150	COW CREEK NEAR MAYTOWN	14.8	127	2850130810132	29	CG PM LF
08-85	02234180	DEEP CREEK DIVERSION CANAL NEAR OSTEEN	--	127	2850440810606	58	MS PM
08-86	02234202	SPRING-ADAIR CANAL AT ORLANDO	--	095	2833340812337	2	MS
08-87	02234207	ADAIR-CONCORD CANAL AT ORLANDO	1.27	095	2833280812319	2	MS
08-88	02234216	CONCORD-IVANHOE CULVERT AT ORLANDO	2.10	095	2833300812256	4	PM
08-89	02234263	SUE LAKE OUTLET AT WINTER PARK	--	095	2835050812112	17	PM
08-90	02234302	HOWELL CREEK NEAR MAITLAND	20.6	095	2837270812033	13	PM MS

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STREAMFLOW SITES IN HYDROLOGIC UNIT 03080101 (ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER)--CONTINUED							
08-91	02234308	HOWELL CREEK AT LAKE HOWELL RD. NEAR MAITLAND	22.0	117	2837540811928	3	MS
08-92	02234322	HOWELL CREEK NEAR OVIEDO	28.9	117	2838350811600	1	MS
08-93	02234324	HOWELL CREEK NEAR SLAVIA	29.2	117	2838510811553	DV	GS
08-94	02234365	SOLDIER CREEK HEADWATERS AT LAKE MARY	7.86	117	2844570812009	4	GS
08-95	02234367	SOLDIER CREEK AT LAKE MARY	9.16	117	2844160811923	4	GS
08-96	02234384	SOLDIER CREEK NEAR LONGWOOD	21.2	117	2843070811832	123	PM GS
08-97	02234386	COUNTY HOME RUN NEAR LAKE MARY	.45	117	2844150811759	11	PM
08-98	02234400	GEE CREEK NEAR LONGWOOD	12.8	117	2842120811725	DV	PM GS
08-99	02234435	LAKE JESSUP OUTLET NEAR SANFORD	150	117	2847090811050	1	MS
08-100	02234440	ST JOHNS R ABOVE L MONEAROE NEAR SANFORD	2,460	117	284808081124	2	MS
08-101	02234500	ST. JOHNS RIVER NEAR SANFORD	2,580	117	2850130811928	152	PM GS
08-102	02234635	WEKIVA RIVER NEAR APOPKA	58.3	095	2842480812644	1	MS
08-103	02234820	LAKE WESTON OUTLET NEAR LOCKHART	--	095	2837060812430	1	MS
08-104	02234830	LAKE LOVELY OUTLET NEAR LOCKHART	--	095	2837290812455	1	MS
08-105	02234945	LITTLE WEKIVA RIVER AT FOREST CITY	73.8	117	2839420812437	11	MS
08-106	02234947	L WEKIVA R AT ST HWY 436, AT FOREST CITY	73.9	117	2839450812438	1	MS
08-107	02234990	LITTLE WEKIVA RIVER NEAR ALTAMONTE SPRINGS	90.7	117	2841130812350	DV	MS GS
08-108	02235000	WEKIVA RIVER NEAR SANFORD	189	117	2848540812510	DV	GS
08-109	02235020	WEKIVA RIVER NEAR DE BARY	--	117	2850590812309	3	MS
08-110	02235155	BLACK WATER CREEK NEAR ALTOONA	32.5	069	2857370813448	2	MS
08-111	02235192	TRACEY CANAL NEAR PAISLEY	29.1	069	2856560813042	31	MS PM
08-112	02235200	BLACK WATER CREEK NEAR CASSIA	126	069	2852370812921	81	CG MS GS
08-113	02235300	BLACK WATER CREEK NEAR DE BARY	--	069	2851480812333	3	PM
08-114	02236000	ST. JOHNS RIVER NEAR DELAND	3,070	069	2900290812258	DV	GS
08-115	02236099	ALEXANDER SPRINGS CREEK AT SH 445 NEAR ASTOR	57.1	069	2904510813359	11	MS
08-116	02236120	DEEP CREEK NEAR BARBERVILLE	35.4	127	2909470812327	62	CG PM
08-117	02236125	ST. JOHNS RIVER AT ASTOR	3,330	069	2910000813120	1	MS
08-118	02236134	SAW GRASS RUN NEAR OCALA	--	083	2911300814240	1	MS
08-119	02236150	JUNIPER CREEK NEAR ASTORA	--	083	2912470813917	11	MS
08-120	02236152	MORMAN BRANCH AT STATE HWY 19 NEAR ASTOR	--	083	2911300813020	1	MS
08-121	02236178	WILLOW COVE BRANCH NEAR SEVILLE	4.0	127	2919100813110	1	MS
08-122	274133081012001	PINE ISLAND SLOUGH NEAR YEEHAW JUNCTION	--	097	2741330810120	1	MS
08-123	275917080473200	SOUTH MORMAN OUTSIDE CANAL NEAR PALM BAY	--	009	2759170804732	6	PM
08-124	275918080471000	THREE FORKS CANAL NEAR PALM BAY	--	009	2759180804710	6	PM
08-125	275954080475400	BULLDOZER CANAL NEAR PALM BAY	--	009	2759540804754	6	PM
08-126	280247080471900	JANE GREEN MARSH NEAR MELBOURNE	--	009	2802470804719	2	MS
08-127	282025080560100	TAYLOR CREEK BL S-164 NEAR COCOA	--	097	2820250805601	4	MS
08-128	283852081142901	BEAR GULLEY CANAL NEAR SLAVIA	--	117	2838520811429	1	MS
08-129	283856081173201	LAKE HOWELL OUTLET NEAR CASSELBERRY	--	117	2838560811732	1	MS
08-130	283919081133701	LIGHTWOOD KNOX CANAL NEAR SLAVIA	--	117	2839190811337	1	MS
08-131	284046081242101	L.WEKIVA RIVER AT MONTGOMERY RD NEAR FOREST CITY	--	117	2840460812421	1	MS
08-132	284052081084400	ECONLOCKHATCHEE RIVER NEAR SNOW HILL	--	117	2840520810844	1	MS
08-133	284146081123301	SWEETWATER CREEK NEAR SLAVIA	--	117	2841460811233	1	MS
08-134	284223081110101	SWEETWATER CREEK NEAR GENEVA	--	117	2842230811101	1	MS
08-135	284226081120301	SHORTCUT CANAL NEAR OVIEDO	--	117	2842260811203	1	MS

Table 3. Streamflow sites in subregion 08 (St. Johns River) where low-flow information are available--Continued

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STREAMFLOW SITES IN HYDROLOGIC UNIT 03080101 (ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER)--CONTINUED							
08-136	284251081263701	WEKIVA RIVER NEAR FOREST CITY	--	117	2842510812637	1	MS
08-137	284341081155301	SANFORD AVE CANAL NEAR SANFORD	--	117	2843410811553	1	MS
08-138	284517081245501	LITTLE WEKIVA RIVER NEAR PAOLA	--	117	2845170812455	1	MS
08-139	284539081245701	WEKIVA RIVER NEAR PAOLA	--	117	2845390812457	1	MS
08-140	285059081231200	WEKIVA R 1.6 MI AB BLACKWATER CR NEAR DEBARY,	--	117	2850590812312	1	MS
08-141	285144081232000	BLACKWATER CREEK 1.2 MI AT MOUTH NEAR CASSIA	--	069	2851440812320	1	MS
08-142	285205081223200	BLACK WATER CREEK AT MOUTH NEAR DEBARY	--	069	2852050812232	3	PM
08-143	285221081220200	WEKIVA RIVER AT MOUTH NEAR DEBARY	--	117	2852210812202	2	MS
08-144	290245081302900	ALEXANDER SPRINGS CREEK AT TRACY CA NEAR ASTOR	--	069	2902450813029	1	MS
08-145	290347081292100	ALEXANDER SPRINGS CR AT GET OUT CR NEAR ASTOR	--	069	2903470812921	1	MS
08-146	290409081285000	GET OUT CREEK NEAR ASTOR	--	069	2904090812850	1	MS
08-147	291031081404701	UNNAMED CREEK AT STATE HWY 40 NEAR OCALA	--	083	2910310814047	1	MS
08-148	291136081380100	JUNIPER CREEK TRIB BL LITTLE JUNIPER CR.NEAR ASTOR	--	069	2911360813801	1	MS
08-149	291200081390601	MORMON BRANCH NEAR ASTOR	--	083	2912000813906	1	MS
08-150	291221081410301	JUNIPER CREEK AT CYPRESS LANDING NEAR OCALA	--	083	2912210814103	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080102 (OKLAWAHA RIVER BASIN)							
08-151	02236300	GREEN SWAMP RUN NEAR LOUGHMAN	33.0	105	2815190814032	44	GS PM
08-152	02236350	GREEN SWAMP RUN NEAR EVA	43.0	105	2818390814108	DV	GS
08-153	02236500	BIG CREEK NEAR CLERMONT	68.0	069	2826510814425	DV	GS
08-154	02236504	BEAR BRANCH NEAR CLERMONT	1.83	069	2827000814425	--	MS
08-155	02236600	LITTLE CREEK AT COOPER'S RANCH NEAR CLERMONT	9.90	069	2825500814743	--	GS
08-156	02236700	LITTLE CREEK NEAR CLERMONT	14.7	069	2827390814526	DV	GS
08-157	02236809	LAKE NELLIE OUTLET NEAR CLERMONT	13.3	069	2828380814550	13	CG PM
08-158	02236900	PALATLAKAHA R AT CHERRY LAKE OUT NEAR GROVE-LAND	165	069	2835330814921	DV	GS
08-159	02237000	PALATLAKAHA RIVER NEAR MASCOTTE	182	069	2836560815153	DV	GS
08-160	02237010	PALATLAKAHA R AT M-6 NEAR MASCOTTE.	--	069	2838350815221	5	PM
08-161	02237050	PALATLAKAHA R. AT M-5 NEAR.OKAHUMPKA.	--	069	2840430815305	5	PM
08-162	02237206	PALATLAKAHA R.AT M-4 NEAR OKAHUMPKA	--	069	2842530815304	13	PM
08-163	02237278	09E PALATLAKAHA R AT HWY 27 NEAR OKAHUMPKA F	--	069	2844140815215	12	PM MS
08-164	02237293	PALATLAKAHA R AT STRUCT M-1, NEAR OKAHUMPKA	221	069	2844390815222	DV	GS
08-165	02237339	HELENA RUN NEAR OKAHUMPKA	15.6	069	2845520815253	2	MS
08-166	02237522	DEAD RIVER NEAR TAVARES	357	069	2848410814616	3	PM MS
08-167	02237700	APOPKA-BEAUCLAIR CANAL NEAR ASTATULA	184	069	2843200814106	DV	GS
08-168	02237732	WOLF BRANCH NEAR MOUNT DORA	2.32	069	2848540813657	2	MS
08-169	02237802	DORA CANAL AT TAVARES	238	069	2847460813839	70	PM
08-170	02238000	HAINES CREEK AT LISBON	648	069	2852140814702	DV	GS
08-171	02238204	YALE GRIFFIN CANAL NEAR LISBON	68.1	069	2855170814626	--	PM
08-172	02238500	OKLAWAHA R AT MOSS BLUFF	879	083	2904550815305	DV	GS
08-173	02239000	OKLAWAHA RIVER NEAR OCALA	1020	083	2911000815940	DV	GS
08-174	02239500	SILVER SPRINGS NEAR OCALA	--	083	2912440820315	DV	GS
08-175	02239600	TRIBUTARY TO SILVER RIVER AT SH 40 NEAR OCALA	--	083	2913090820234	13	MS

Table 3. Streamflow sites in subregion 08 (St. Johns River) where low-flow information are available--Continued

[ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See Table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Grey line indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 11.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080101 (ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER)--CONTINUED							
08-176	02240000	OKLAWAHA RIVER NEAR CONNER	1,200	083	2912500815910	DV	GS
08-177	02240105	DAISY CREEK NEAR FT MCCOY	11.4	083	2918540815823	17	LF
08-178	02240440	EATON CREEK NEAR EUREKA	84.6	083	2920150815300	4	MS LF
08-179	02240500	OKLAWAHA RIVER AT EUREKA	1,370	083	2922200815410	DV	GS
08-180	02240902	PRAIRIE CREEK NEAR GAINESVILLE	114	001	2936390821454	DV	GS
08-181	02240920	FAIRFIELD SINK DRAIN AT FAIRFIELD	1.70	083	2921580821517	39	CG PM MS
08-182	02240950	HOGTOWN CREEK NEAR GAINESVILLE	18.5	001	2939010822232	32	CG PM MS
08-183	02240954	HOGTOWN CREEK NEAR ARREDONDOA	41.2	001	2938170822333	DV	GS
08-184	02240984	SWEETWATER BRANCH TRIB AT GAINESVILLE	.79	001	2939000821914	2	GS
08-185	02241000	CAMPS CANAL NEAR ROCHELLE	775	001	2934340821459	DV	GS
08-186	02241800	LOCHLOOSA CREEK NEAR MELROSE	2.79	001	2942060820802	17	CG PM
08-187	02241900	LOCHLOOSA CREEK AT GROVE PARK	37.4	001	2936000820842	36	CG PM
08-188	02242000	LOCHLOOSA CREEK NEAR HAWTHORNE	46.3	001	2933530820825	PM	
08-189	02242007	TRIB TO LOCHLOOSA LAKE TRIB NEAR HAWTHORNE	.12	001	2935240820618	5	MS
08-190	02242401	CROSS CREEK NEAR ISLAND GROVEA	--	001	2929100820956	5	MS
08-191	02242451	ORANGE LAKE OUTLET NEAR CITRA	1,010	001	2926300820635	DV	GS
08-192	02242500	LOCHLOOSA SLOUGH NEAR LOCHLOOSA	--	001	2929100820610	DV	GS
08-193	02243000	ORANGE CREEK AT ORANGE SPRINGS	1,120	083	2930340815647	DV	GS
08-194	02243400	LITTLE ORANGE CREEK NEAR ORANGE SPRINGS	75.5	107	2931220815623	41	PM MS
08-195	02243500	OKLAWAHA RIVER NEAR ORANGE SPRINGS	2,660	083	2930130815443	DV	GS
08-196	02243530	BRUNTBRIDGE BROOK AT KENWOOD	4.63	107	2932080815302	9	MS CG PM
08-197	02243609	DEEP CREEK NEAR KENWOOD	6.34	107	2934120815241	1	MS
08-198	02243682	SWEETWATER CREEK NEAR HOLLISTER	4.90	107	2937430814946	1	MS
08-199	02243800	DEEP CREEK NEAR RODMAN	54.3	107	2932280815012	15	MS PM
08-200	02243960	OKLAWAHA R AT RODMAN DAM NEAR ORANGE SPRINGS	2,747	107	2930300814815	DV	GS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080103 (ST. JOHNS RIVER BASIN BELOW OKLAWAHA RIVER)							
08-201	02244000	OKLAWAHA R AT RIVERSIDE L NEAR ORG. SPRINGS	2,747	107	2930000814800	DV	GS
08-202	02244032	CROSS FL BARGE CA AT BUCKMAN LOCK NEAR PALATKA	--	107	2932450814335	DV	GS
08-203	02244100	SWEETWATER BRANCH NEAR BUNNELL	11.1	035	2925100811800	4	MS
08-204	02244150	BLACK BRANCH NEAR BUNNELL	14.5	035	2926500811630	3	MS
08-205	02244200	HAW CREEK NEAR BUNNELL	109	035	2924100812110	5	MS
08-206	02244320	MIDDLE HAW CREEK NEAR KORONA	78.3	035	2921350811842	DV	GS
08-207	02244330	MIDDLE HAW CREEK NEAR BUNNELL	86.6	035	2922100812110	4	MS
08-208	02244420	LITTLE HAW CR NEAR SEVILLE	93.0	035	2919200812310	DV	GS
08-209	02244430	SALT BRANCH CANAL NEAR ANDALUSIA	--	035	2930430812956	1	MS
08-210	02244450	ST. JOHNS RIVER AT PALATKA	7,090	107	2938480813732	DV	GS
08-211	02244470	PALMETTO BRANCH TRIBUTARY AT CARRAWAY	2.94	107	2942380814733	1	MS
08-212	02244473	RICE CREEK NEAR SPRINGSIDE	43.2	107	2941170814432	DV	GS
08-213	02244494	TRIB.NO5 TO RICE CR TRIB.NO3 NEAR WOODBURN	--	107	2940100814200	4	MS
08-214	02244551	BLUE POND OUTLET NEAR KEYSTONE HEIGHTS	2.32	019	2952080820120	5	PM
08-215	02244601	SAND HILL OUTLET NEAR KEYSTONE HEIGHTS	--	019	2950130820038	4	PM
08-216	02244651	MAGNOLIA LAKE OUTLET NEAR KEYSTONE HEIGHTS	14.8	019	2949020820121	10	PM
08-217	02244751	BROOKLYN LAKE OUTLET AT KEYSTONE HEIGHTS	17.4	019	2947180820210	7	PM
08-218	02244755	KEYSTONE LAKE OUTLET AT KEYSTONE HEIGHTS	--	019	2946450820152	3	PM
08-219	02245000	ETONIA CREEK NEAR FLORAHOME	167	107	2944080815147	--	GS
08-220	02245050	ETONIA CREEK AT BARDIN	219	107	2943000814331	DV	GS

Table 3. Streamflow sites in subregion 08 (St. Johns River) where low-flow information are available--Continued

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County code: See Table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Grey line indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 11.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080103 (ST. JOHNS RIVER BASIN BELOW OKLAWAHA RIVER)--CONTINUED							
08-221	02245100	SIMMS CREEK NEAR WEST TOCOI	4.33	019	2950160814222	3	MS
08-222	02245140	SIMMS CREEK NEAR BARDIN	47.3	107	2944260814249	DV	GS
08-223	02245250	SIXTEENMILE CREEK NEAR HASTINGS	26.2	109	2940400812800	3	MS
08-224	02245254	SIXTEENMILE CREEK AT BYRD	--	109	2940030812752	4	PM
08-225	02245255	DEEP CREEK NEAR HASTINGS	20.7	109	2940500812700	DV	GS
08-226	02245265	CRACKER BRANCH AT HASTINGS	14.8	109	2942500813100	4	MS
08-227	02245280	MOCCASIN BRANCH AT ARMSTRONG	18.3	109	2946300812710	6	MS LF
08-228	02245285	MCCULLOUGH CREEK AT RIVERDALE	16.1	109	2950160813003	1	MS
08-229	02245300	CLARKES CREEK NEAR GREEN COVE SPRINGS	8.81	019	2952400813952	18	PM CG DV
08-230	02245315	SIXMILE CREEK AT BAKERSVILLE	47.2	109	2954400812930	4	MS
08-231	02245325	MILL CREEK NEAR BAKERSVILLE	8.88	109	2957000812940	6	MS LF
08-232	02245335	TROUT CREEK NEAR ORANGEDALE	4.76	109	3002450813339	3	MS
08-233	02245350	GOVERNORS CREEK NEAR GREEN COVE SPRINGS	10.5	019	2959020814210	3	MS
08-234	02245400	SOUTH FORK BLACK CREEK NEAR CAMP BLANDING	34.8	019	2956330815352	DV	
08-235	02245422	ATES CREEK NEAR BELMORE	--	019	2954380815304	1	MS
08-236	02245430	ATES CREEK NEAR PENNY FARMS	40.8	019	2956100815215	22	CG PM
08-237	02245470	GREENS CREEK NEAR PENNEY FARMS	14.9	019	2954380814740	--	CG MS
08-238	02245500	SOUTH FORK BLACK CREEK NEAR PENNEY FARMS	134	019	2958450815108	DV	GS
08-239	02245600	BULL CREEK NEAR MIDDLEBURG	20.4	019	3001490815352	9	CG PM MS
08-240	02245710	NORTH FORK BLACK CREEK NEAR KINGSLEY	9.72	019	2958520815802	3	MS
08-241	02245750	N FORK BLACK CR AB BOGGY BR NEAR HIGHLAND	33.9	019	3003580815844	2	MS LF
08-242	02245760	BOGGY BRANCH NEAR HIGHLAND	5.50	019	3004130815920	1	MS
08-243	02245800	NORTH FORK BLACK CREEK NEAR HIGHLAND	50.5	019	3006480815900	25	GS CG LF
08-244	02245850	LONG BRANCH AT MAXVILLE	8.53	031	3012030820106	26	CG PM LF
08-245	02245860	NORTH FORK BLACK CREEK NEAR MAXVILLE	101	031	3008330815548	2	MS
08-246	02245900	YELLOW WATER CREEK NEAR MAXVILLE	21.9	031	3013440815517	34	CG PM LF
08-247	02245920	SAL TAYLOR CREEK AT FIFTONE	27.5	031	3012000815441	2	MS
08-248	02245930	YELLOW WATER CREEK NEAR HIGHLAND	56.5	019	3011120815513	3	MS
08-249	02246000	NORTH FORK BLACK CREEK NEAR MIDDLEBURG	177	019	3006470815424	DV	GS
08-250	02246029	BID BRANCH NEAR MIDDLEBURG	--	019	3007080814952	4	CG PM
08-251	02246030	LITTLE BLACK CREEK NEAR MIDDLEBURG	--	019	3007010814829	1	MS
08-252	02246034	BRADLEY CR NEAR PENNY FARMS	.28	019	3001350814825	10	GS
08-253	02246100	JULINGTON CREEK NEAR GREENLAND	8.90	031	3011190813345	36	GS CG LF
08-254	02246110	SWEETWATER CREEK NEAR GREENLAND	4.9	031	3010030813229	8	MS LF
08-255	02246150	BIG DAVIS CREEK AT BAYARDA	13.6	031	3009050813135	DV	GS
08-256	02246199	DURBIN CREEK AT U.S.1 NEAR DURBIN.	--	109	3005540812822	6	MS LF
08-257	02246200	DURBIN CREEK NEAR DURBIN	36.7	109	3005570813134	7	CG LF
08-258	02246202	CORMORANT BRANCH NEAR MANDARIN	1.62	031	3008560813743	26	PM CG LF
08-259	02246280	MCGIRTS CREEK AT WHITEHOUSE	10.4	031	3019480815142	6	MS LF
08-260	02246300	ORTEGA RIVER AT JACKSONVILLE	30.9	031	3014500814749	DV	GS
08-261	02246360	CEDAR RIVER NEAR MARIETTA.	--	031	3017550814520	4	LF
08-262	02246455	SOUTH FORK WILLS BRANCH NEAR MARIETTA	2.00	031	3017050814605	9	CG MS LF
08-263	02246460	WILLIAMSON CREEK AT CEDAR HILLS	.92	031	3016190814505	47	CG PM
08-264	02246497	MCCOY CREEK AT JACKSONVILLE	3.51	031	3019350814156	11	CG PM
08-265	02246522	RED BAY BRANCH TRIBUTARY AT JACKSONVILLE	.57	031	3020400813522	77	CG PM

Table 3. Streamflow sites in subregion 08 (St. Johns River) where low-flow information are available--Continued

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County code: See Table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Grey line indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 11.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080103 (ST. JOHNS RIVER BASIN BELOW OKLAWAHA RIVER)--CO9NTINUED							
08-266	02246550	POTTSBURG CR NEAR SO JAX	9.89	031	3015500813525	27	CG PM LF
08-267	022465988	TROUT RIVER AT ILLINOIS ST AT DINSMORE	--	031	3025350814616	4	PM
08-268	02246600	TROUT RIVER AT DINSMORE	20.9	031	3025510814607	5	MS LF
08-269	02246602	LITTLE TROUT RIVER AT DINSMORE	1.28	031	3026230814621	5	LF
08-270	02246645	SIXMILE CREEK AT PICKETTVILLE	12.1	031	3021460814624	9	MS LF
08-271	02246650	SIXMILE CREEK NEAR MARIETTA	16.1	031	3022140814447	17	CG PM LF
08-272	02246700	LITTLE SIXMILE CREEK NEAR MARIETTA	3.21	031	3021510814416	21	CG PM LF
08-273	02246750	CEDAR CREEK NEAR PANAMA PARK	6.27	031	3027300814049	16	CG PM LF
08-274	02246754	PICKETT BRANCH NEAR EASTPORT	3.01	031	3027590814005	7	LF
08-275	02246760	LITTLE CEDAR CREEK NEAR EASTPORT	2.96	031	3028050813923	7	LF
08-276	02246800	DUNN CREEK NEAR EASTPORT	4.86	031	3028150813607	18	CG PM LF
08-277	02246807	CANEY BRANCH NEAR EASTPORT.	--	031	3027430813453	10	LF
08-278	02246810	RUSHING BRANCH NEAR EASTPORT.	--	031	3027450813403	4	LF
08-279	02246828	PABLO CREEK AT JACKSONVILLE	25.8	031	3014070812842	DV	GS
08-280	02246832	CEDAR SWAMP CREEK NEAR JACKSONVILLE	3.40	031	3014380812826	DV	GS
08-281	301438081435800	FISHING CREEK NEAR WESCONNETT.	--	031	3014380814358	5	LF
08-282	301527081345301	POTTSBURG CREEK NEAR BOWDENORIDA	--	031	3015270813453	17	PM LF
08-283	301534081442900	BUTCHER PEN CREEK NEAR JACKSONVILLE.	--	031	3015340814429	4	LF
08-284	301830081344500	SILVERSMITH CK AT ARLINGTON RD AT JACKSONVILLE	--	031	3018300813445	5	LF
08-285	302015081333701	STRAWBERRY CK AT LONE STAR RD AT JACKSONVILLE	--	031	3020150813337	2	LF
08-286	302425081503301	TROUT CREEK NEAR DINSMORE	--	031	3024250815033	12	MS LF
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080201 (COASTAL AREA BETWEEN ST. JOHNS RIVER AND PONCE DE LEON INLET)							
08-287	02246850	DIEGO PLAINS SWAMP DRAIN AT MICKLER LANDING	4.95	109	3009320812137	25	GS
08-288	02246900	MOULTRIE CREEK AT SHWY 207 NEAR ST AUGUSTINE	19.8	109	2950500812139	DV	GS
08-289	02247000	MOULTRIE CREEK NEAR ST. AUGUSTINE	20.8	109	2949400812057	DV	GS
08-290	02247010	FORT PEYTON BRANCH NEAR ST. AUGUSTINE	17.2	109	2949200812050	28	PM MS
08-291	02247027	MOSES CREEK NEAR MOULTRIE	7.51	109	2946280811859	2	MS
08-292	02247202	FISH SWAMP OUTLET NEAR SUMMER HAVEN	4.64	109	2939200811943	22	CG GS
08-293	02247270	BULOW CREEK NEAR FLAGLER BEACH	--	035	2928340810956	2	MS
08-294	02247460	TOMOKA RIVER AT US HWY92 NEAR DAYTONA BEACH	--	127	2909500810528	6	MS
08-295	02247465	BELLVUE CANAL AT DAYTONA BEACH	1.5	127	2909590810620	5	PM
08-296	02247480	TIGER BAY CANAL NEAR DAYTONA BEACH	29.0	127	2909580810918	DV	GS
08-297	02247493	BAYLESS BLVD CANAL AT DAYTONA BEACH	1.4	127	2911010810538	5	PM
08-298	02247496	THAYER CANAL NEAR DAYTONA BEACH	--	127	2910430810714	23	PM
08-299	02247498	WALLY HOFFMEYER CANAL AT DAYTONA BEACH	2.2	127	2905370811155	3	PM
08-300	02247499	WILLIAMSON BLVD DITCH AT DAYTONA BEACH	0.3	127	2912330810556	12	PM
08-301	02247500	TOMOKA RIVER NEAR DAYTONA BEACH	76.2	127	2912350810620	1	MS
08-302	02247508	ELEVENTH ST CANAL NEAR HOLLY HILL	3.5	127	2913040810632	26	GS
08-303	02247510	TOMOKA RIVER NEAR HOLLY HILL	76.8	127	2913020810632	DV	GS
08-304	02247600	LITTLE TOMOKA RIVER NEAR ORMOND BEACH	10.0	127	2915230810952	35	CG PM
08-305	02247607	LITTLE TOMOKA RIVER NEAR HOLLY HILL	--	127	2915240810745	14	PM MS

Table 3. Streamflow sites in subregion 08 (St. Johns River) where low-flow information are available--Continued

[ID, identification; mi^2, square mile; --, not determined]
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County code: See Table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Grey line indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 11.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080201 (COASTAL AREA BETWEEN ST. JOHNS RIVER AND PONCE DE LEON INLET)--CONTINUED							
08-306	02247616	GROOVER BRANCH NEAR ORMOND BEACH	--	127	2916250810742	1	MS
08-307	02248000	SPRUCE CREEK NEAR SAMSUL	33.4	127	2903010810249	DV	GS
08-308	02248010	SPRUCE CREEK TRIBUTARY NEAR SAMSUL	8.46	127	2904220810407	1	MS
08-309	02248040	B-19 CANAL AT SR415 AT PORT ORANGE	7.6	127	2906540810128	27	GS
08-310	290744081093600	TIGER BAY CANAL AT US92 NEAR DAYTONA BEACH	--	127	2907440810936	1	MS
08-311	290855081091400	TIGER BAY CANAL NEAR DAYTONA BEACH	--	127	2908550810914	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080202 (COASTAL AREA BETWEEN PONCE DE LEON INLET AND SEBASTIAN INLET)							
08-312	02248300	LITTLE COW CREEK NEAR EDGEWATER	--	127	2856290815630	16	LF
08-313	02248500	ELLIS CANAL NEAR INDIAN RIVER CITY	--	009	2832050804801	--	PM
08-314	02249000	EAU GALLIE RIVER NEAR EAU GALLIE	2.69	009	2807560803919	--	PM DV LF
08-315	02249500	CRANE CREEK AT MELBOURNE	12.6	009	2804420803748	DV	GS
08-316	02249510	CRANE CREEK AT BABCOCK STREET AT MELBOURNE	15.5	009	2804060803717	3	PM
08-317	02249515	HICKORY STREET DRAINAGE CANAL AT MELBOURNE	.5	009	2804170803648	3	PM
08-318	02250000	TURKEY CREEK NEAR PALM BAY	95.5	009	2800460803720	DV	GS
08-319	02250030	TURKEY CREEK AT PALM BAY	--	009	2801000803546	49	GS
08-320	02250500	GOAT CREEK NEAR VALAKEARIA	12.0	009	2758010803357	20	PM MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03080203 (COASTAL AREA SEBASTIAN INLET TO ST. L RIVER)							
08-321	02251500	NORTH PRONG SEBASTIAN CREEK NEAR MICCO	56.0	009	2751210803128	42	PM GS
08-322	02251765	FELLSMERE CANAL NEAR FELLSMERE	78.4	061	2749180803627	DV	GS
08-323	02252500	NORTH CANAL NEAR VERO BEACH	--	061	2741320802500	DV	GS
08-324	02253000	MAIN CANAL AT VERO BEACH	--	061	2738540802410	DV	GS
08-325	02253500	SOUTH CANAL NEAR VERO BEACH	--	061	2736110802324	DV	GS

Table 4. Streamflow sites in subregion 09 (Southern Florida) where low-flow information are available

ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See Table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 12.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03090101 (KISSIMMEE RIVER BASIN)							
09-1	02261000	LIZZIE-COON CANAL NEAR ASHTON	31.5	097	2815290811120	--	GS
09-2	02261500	MYRTLE-MARY JANE CANAL NEAR NARCOOSSEE	111	097	2820220811027	DV	GS
09-3	02261885	ISSTON CANAL NEAR NARCOSSEE	--	095	2823190811016	5	MS
09-4	02262000	MARY JANE-HART CANAL NEAR NARCOOSSEE	124	095	2822540811124	--	PM
09-5	02262504	JIM BRANCH NEAR NARCOOSSEE	--	097	2820410811600	4	MS
09-6	**02262900**	**BOGGY CREEK NEAR TAFT**	**83.6**	**095**	**2822160811839**	DV	**GS**
09-7	02263000	BOGGY CREEK NEAR KISSIMMEE	86.3	095	2820520811912	--	PM
09-8	02263500	ST. CLOUD CANAL AT S-59 NEAR ST. CLOUD	308	097	2815560811838	DV	GS
09-9	**02263700**	**SHINGLE CREEK NEAR VINELAND**	**48.0**	**095**	**2824350812603**	--	**PM LF CG**
09-10	02263800	SHINGLE CREEK AT AIRPORT NEAR KISSIMMEE	89.2	097	2818140812704	DV	GS
09-11	02263851	BAY LAKE OUTLET AT S-105A, NEAR VINELAND	14.8	095	2824480813327	--	GS
09-12	**02263869**	**SOUTH LAKE OUTLET AT S-15, NEAR VINELAND**	**4.00**	**095**	**2824450813217**	DV	**GS**
09-13	02263895	DOWN-BUTLER CANAL AT WINDERMERE	5.80	095	2830110813218	6	PM
09-14	02263901	BUTLER-LOUISE CANAL NEAR WINDERMERE	--	095	2828410813237	7	PM
09-15	**02264000**	**CYPRESS CREEK AT VINELAND**	**30.3**	**095**	**2823250813111**	DV	**GS**
09-16	**02264100**	**BONNET CREEK NEAR VINELAND**	**56.1**	**097**	**2819580813120**	DV	**GS**
09-17	**02264495**	**SHINGLE CREEK AT CAMPBELL**	**180**	**097**	**2816010812653**	DV	**GS**
09-18	02264500	SHINGLE CREEK NEAR KISSIMMEE	--	097	2816010812610	--	PM
09-19	02265000	SOUTH PORT CANAL AT S-61 NEAR ST. CLOUD	620	097	2808220812106	DV	GS
09-20	02266000	CANOE CREEK NEAR ST. CLOUD	86.5	097	2804220811539	DV	GS
09-21	02266200	WHITTENHORSE CREEK NEAR VINELAND	12.4	095	2823050813700	DV	GS
09-22	02266300	REEDY CREEK NEAR VINELAND	75.0	097	2819570813448	DV	GS
09-23	02266480	DAVENPORT CREEK NEAR LOUGHMAN	23.0	097	2816150813528	DV	GS
09-24	02266500	REEDY CREEK NEAR LOUGHMAN	110	097	2815480813212	DV	GS
09-25	02266550	REEDY CREEK AT SR531 NEAR POINSIANNA	--	097	2808590812628	30	PM
09-26	02266700	HORSE CREEK AT DAVENPORT	22.8	105	2810310813554	--	GS CG MS
09-27	**02267000**	**CATFISH CREEK NEAR LAKE WALES**	**58.9**	**105**	**2757400812948**	DV	**GS**
09-28	02267500	KISSIMMEE RIVER NEAR LAKE WALES	--	097	2800000812250	DV	GS
09-29	02268000	SHORT CANAL NEAR LAKE WALES	--	097	2800170811622	--	PM
09-30	02268500	WEOHYAKAPKA CREEK NEAR LAKE WALES	96.8	105	2752240812352	2	MS
09-31	**02268903**	**KISSIMMEE RIVER AT S-65,NEAR LAKE WALES**	**1,607**	**097**	**2748140811153**	DV	**GS**
09-32	02269000	KISSIMMEE R BL LAKE KISSIMMEE NEAR LAKE WALES,	1,610	105	2746130811045	DV	GS
09-33	02269040	KISSIMMEE R CREST-GAGE 1 NEAR AVON PARK	1,740	105	2740150810842	--	CG
09-34	02269060	KISSIMMEE R CREST-GAGE 2 NEAR AVON PARK	1,790	055	2737080810844	--	CG
09-35	02269140	KISSIMMEE R CREST-GAGE 3 AT FORT KISSIMMEE	1,910	055	2735020810929	--	CG
09-36	02269160	KISSIMMEE R CREST-GAGE 4 NEAR BASSINGER	2030	093	2726040810831	--	CG
09-37	**02269500**	**REEDY CREEK NEAR FROSTPROOF**	**60.9**	**105**	**2743130812840**	DV	**GS**
09-38	02269720	MORGAN HOLE CREEK NEAR AVON PARK	13.9	055	2737520811747	19	CG PM
09-39	**02270500**	**ARBUCKLE CREEK NEAR DE SOTO CITY**	**379**	**055**	**2726320811751**	DV	**GS**
09-40	02270751	PLACID-JUNE CANAL NEAR LAKE PLACID	--	055	2715050811510	--	PM
09-41	**02271500**	**JOSEPHINE CREEK NEAR DE SOTO CITY**	**109**	**055**	**2722260812337**	DV	**GS**
09-42	02271583	HUNTLEY-CLAY CA AT LAKE PLACID	--	055	2718120812051	--	PM
09-43	02271602	LAKE CLAY OUTLET NEAR L PLACID	--	055	2719150812105	--	PM
09-44	02272000	ISTOKPOGA CANAL NEAR CORNWELL	--	055	2723560810945	DV	GS
09-45	02272300	KISSIMMEE R CREST-GAGE 5 NEAR BASSINGER	2,710	055	2721530810319	--	CG
09-46	02272500	KISSIMMEE RIVER NEAR BASSINGER	2,710	055	2721520810307	--	GS
09-47	02272700	KISSIMMEE R CREST-GAGE 6 NEAR BASSINGER	2,830	055	2720300810246	--	CG
09-48	02272800	KISSIMMEE R CREST-GAGE 7 NEAR BASSINGER	2,850	055	2718090810136	--	CG
09-49	**02273000**	**KISSIMMEE R AT S-65E NEAR OKEECHOBEE**	**--**	**093**	**2713320805746**	DV	**GS**
09-50	02273200	CANAL 41A AT S-68 NEAR LAKE PLACID	--	055	2719550811505	--	GS

Table 4. Streamflow sites in subregion 09 (Southern Florida) where low-flow information are available--Continued

ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See Table 1.
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Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 12.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
09-51	**02273300**	**CANAL 41A AT S-84, NEAR OKEECHOBEE**	**--**	**055**	**2712550805855**	DV	**GS**
09-52	02273436	10B KISSIMMEE RIVER AT LAKE OKEECHOBEE	--	093	2708530805221	--	PM
09-53	271513081224801	PLACID-JUNE CANAL NEAR BAIRS DEN	--	055	2715130812248	1	MS
09-54	271517081224801	PLACID-JUNE CANAL NEAR CHILDS	--	055	2715170812248	1	MS
09-55	271620081232301	PLACID-JUNE CANAL NEAR CARLTON RANCH	--	055	2716200812323	1	MS
09-56	272220081243101	JACK CREEK NEAR ISTOKPOGA	--	055	2722200812431	1	MS
09-57	272248081121301	ISTOKPOGA CANAL NEAR LORIDA	--	055	2722480811213	3	MS
09-58	272253081121501	ISTOKPOGA CREEK NEAR LORIDA	--	055	2722530811215	2	MS
09-59	272344081203901	JOSEPHINE CREEK NEAR ISTOKPOGA	143	055	2723440812039	2	MS
09-60	272642081180201	ARBUCKLE CREEK NEAR LORIDA	--	055	2726420811802	1	MS
09-61	273826081243501	BONNET CREEK NEAR AVON PARK	--	055	2738260812435	1	MS
09-62	274553081262601	BLUE JORDAN SWAMP NEAR FROSTPROOF	--	105	2745530812626	3	MS
09-63	280300081172901	SHORT CANAL NEAR KISSIMMEE PARK	--	097	2803000811729	2	MS
09-64	280348081181601	SHORT CANAL AT CYPRESS LAKE NEAR KISSIMMEE PARK	--	097	2803480811816	1	MS
09-65	280635081043501	TRIBUTARY TO WEST BRANCH CRABGRASS CR.NEAR HOLOPAW	--	097	2806350810435	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03090102 (TAYLOR CREEK BASIN)							
09-66	**02274000**	**TAYLOR CREEK NEAR BASINGER**	**15.7**	**093**	**2723390805344**	DV	**GS**
09-67	**02274495**	**WILLIAMSON DITCH AT S-7, NEAR OKEECHOBEE**	**35.4**	**093**	**2717450804935**	DV	**GS**
09-68	02274500	TAYLOR CREEK AT OKEECHOBEE	98.7	093	2717030804920	DV	GS
09-69	02275503	TAYLOR CREEK AT HGS-6, NEAR OKEECHOBEE	--	093	2712350804756	4	MS
09-70	270955080411500	LETTUCE CREEK NEAR OKEECHOBEE	--	093	2709550804115	2	MS
09-71	271213080444500	NUBBIN SLOUGH NEAR OKEECHOBEE	--	093	2712130804445	2	MS
09-72	271436080535000	POPASH SLOUGH NEAR OKEECHOBEE	--	093	2714360805350	2	MS
09-73	271447080481000	TRIBUTARY TO TAYLOR CREEK TRIBUTARY NEAR OKEECHOBEE	--	093	2714470804810	1	MS
09-74	272304080575701	CYPRESS SLOUGH NEAR BASINGER	--	093	2723040805757	2	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03090103 (FISHEATING CREEK BASIN)							
09-75	**02256500**	**FISHEATING CREEK AT PALMDALE**	**311**	**043**	**2655560811854**	**DV**	**GS**
09-76	02257000	FISHEATING CREEK AT LAKEPORT	456	043	2700000810405	1	MS
09-77	**02257800**	**HARNEY POND CANAL AT S-71 NEAR LAKEPORT**	**--**	**043**	**2702000810415**	DV	**GS**
09-78	**02259200**	**INDIAN PRAIRIE CANAL AT S-72 NEAR OKEECHOBEE**	**--**	**043**	**2705350810025**	DV	**GS**
09-79	**02259500**	**INDIAN PRAIRIE CANAL NEAR OKEECHOBEE**	**--**	**043**	**2703570805912**	DV	**GS**
09-80	270706081092701	HARNEY POND CANAL AT S-70	--	043	2707060810927	1	MS
09-81	270731081181101	GATOR SLOUGH HEADWATERS TRIBUTARY NEAR VENUS	--	055	2707310811811	1	MS
09-82	270857081185900	HICKORY BRANCH NEAR HICORIA	--	055	2708570811859	2	MS
09-83	270903081164400	HICKORY BRANCH NEAR BAIRS DEN	--	055	2709030811644	1	MS
09-84	270907081180200	HICKORY BRANCH NEAR CHILDS	--	055	2709070811802	1	MS
09-85	270908081184600	HICKORY BRANCH NEAR ARCHBOLD	--	055	2709080811846		
09-86	270910081160700	HICKORY BRANCH NEAR BEAR HOLLOW	--	055	2709100811607	1	MS
09-87	271232081274300	FISHEATING CREEK NEAR LAKE PLACID	--	055	2712320812743	4	MS
09-88	271232081324010	FISHEATING CREEK TRIBUTARY NEAR LAKE PLACID	--	055	2712320813240	3	MS

Table 5. Streamflow sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area) where low-flow information are available

[ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See Table 1.
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Bold type indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 13.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measurements	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03100101 (PEACE RIVER BASIN)							
10-1	**02293694**	**PEACE CREEK DRAINAGE CANAL NEAR DUNDEE**	**58.0**	**105**	**2801500813935**	GS	**GS**
10-2	**02293986**	**PEACE CREEK DRAINAGE CANAL NEAR ALTURAS**	**160**	**105**	**2755230814228**	DV	**GS**
10-3	02294000	MARIANNA-JESSIE CANAL NEAR AUBURNDALE	--	105	2803500814545	8	MS
10-4	02294038	MAY-SHIPP CANAL AT WINTER HAVENA	--	105	2800300814422	2	MS
10-5	**02294068**	**LULU LAKE OUTLET AT ELOISE**	**23.0**	**105**	**2759030814347**	DV	**GS**
10-6	02294114	LAKE GARFIELD OUTLET NEAR ALTURAS	18.0	105	2754580814356	20	PM LF
10-7	02294161	PEACE CREEK NEAR BARTOWA	--	105	2755290814745	1	MS
10-8	02294214	SADDLE CREEK NEAR LAKELAND	--	105	2802520815235	21	PM MS
10-9	02294217	SADDLE CREEK AT ST.HWY 542 NEAR LAKELAND	53	105	2802380815235	33	PM
10-10	02294230	LAKE PARKER TRIB NEAR LAKELAND	5.60	105	2805400815710	8	MS LF
10-11	02294238	LAKE PARKER TRIB NO.2 NEAR LAKELAND	3.2	105	2804530815712	8	MS LF
10-12	02294260	LAKE PARKER OUTLET AT LAKELAND	--	105	2803340815452	38	PM MS
10-13	02294290	SADDLE CREEK AT STATE HWY 540 NEAR EATON PARK	61.0	105	2800150815108	3	MS
10-14	02294330	LAKE LENA RUN NEAR AUBURNDALE	21.4	105	2759590814844	20	PM
10-15	02294380	STAHL CANAL AT LAKELAND	--	105	2759230815520	22	PM
10-16	02294390	STAHL CANAL NEAR LAKELAND	11.6	105	2758580815436	4	PM
10-17	02294405	BANANA-HANCOCK CANAL NEAR HIGHLAND CITY	--	105	2758570815337	21	PM
10-18	02294409	BANANA-HANCOCK CANAL NEAR HIGHLAND CITY	15.8	105	2759040815328	4	PM
10-19	**02294491**	**SADDLE CREEK AT STRUCT P-11 NEAR BARTOW**	**135**	**105**	**2756170815105**	DV	**GS**
10-20	02294553	SADDLE CREEK NEAR BARTOWA	--	105	2755110814927	2	MS
10-21	02294642	MCKINNEY BRANCH AT BARTOW	--	105	2754220815037	12	PM
10-22	**02294650**	**PEACE RIVER AT BARTOW**	**390**	**105**	**2754070814903**	DV	**GS**
10-23	02294744	SIXMILE CREEK NEAR BARTOW	--	105	2751490814954	11	PM
10-24	**02294781**	**PEACE RIVER NEAR HOMELAND**	**437**	**105**	**2749130814757**	37	**PM**
10-25	**02294898**	**PEACE RIVER AT FORT MEADE**	**480**	**105**	**2745040814656**	DV	**GS**
10-26	**02295013**	**BOWLEGS CREEK NEAR FORT MEADE**	**47.2**	**105**	**2741570814140**	49	**CG LF**
10-27	02295067	BOWLEGS CREEK AT PISGAH ROAD NEAR FORT MEADE	70.9	105	2743150814720	15	MS LF
10-28	02295109	MILL BRANCH TRIBUTARY NEAR FORT MEADE	--	105	2744080815118	11	PM
10-29	02295115	MILL BRANCH NEAR FT MEADE	--	105	2742390815034	11	PM
10-30	02295163	WHIDDEN CREEK NEAR FORT MEADE	35.6	105	2742350814828	16	PM
10-31	02295194	PEACE RIVER AT BOWLING GREEN	613	049	2738450814809	3	PM
10-32	02295203	PEACE RIVER AT SR 664A NEAR BOWLING GREEN	617	049	2737280814810	1	MS
10-33	02295356	PAYNE CREEK NEAR FORT GREEN SPRINGS	--	049	2736360815217	8	MS LF
10-34	**02295420**	**PAYNE CREEK NEAR BOWLING GREEN**	**121**	**049**	**2737130814933**	DV	**GS**
10-35	**02295435**	**HOG BRANCH NEAR WACHULA**	**5.31**	**049**	**2735320814920**	37	**GS LF**
10-36	02295440	PEACE RIVER AT STATE HWY 664A NEAR WACHULA	754	049	2734320814817	2	PM
10-37	**02295557**	**LITTLE CHARLIE CREEK NEAR WACHULA**	**36.7**	**049**	**2735150814617**	14	**MS LF**
10-38	**02295607**	**PEACE R AT WAUCHULAA.**	**808**	**049**	**2733010814738**	3	**MS**
10-39	02295614	PEACE RIVER NEAR WAUCHULA	810	049	2732240814733	2	MS
10-40	02295630	THOMPSON BRANCH NEAR WAUCHULA	5.22	027	2731470814903	1	PM
10-41	**02295637**	**PEACE RIVER AT ZOLFO SPRINGS**	**826**	**049**	**2730150814804**	DV	**GS**
10-42	02295642	PEACE RIVER AT STATE HWY 64 AT ZOLFO SPRINGS	830	049	2729590814839	3	PM
10-43	02295735	TROUBLESOME CREEK NEAR ZOLFO SPRINGS	16.0	049	2728530815157	2	PM
10-44	02295755	HICKORY CREEK NEAR ONA	3.75	049	2728540815250	21 DV	CG MS
10-45	02295760	HICKORY CREEK NEAR ZOLFO SPRINGS	6.37	049	2726350815229	4	PM

Table 5. Streamflow sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area) where low-flow information are available--Continued

[ID, identification; mi^2, square mile; --, not determined]
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County code: See Table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 13.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measurements	Type of site
10-46	**02295800**	**PEACE RIVER NEAR LIMESTONE**	**892**	**049**	**2724520815053**	3	**MS**
10-47	02295850	OAK CREEK NEAR ONA	15.0	049	2725300815322	--	GS
10-48	02295870	OAK CREEK NEAR ZOLFO SPRINGS	18.0	049	2724530815254	4	PM
10-49	02295937	PEACE RIVER NEAR GARDNER	--	049	2720580814956	1	MS
10-50	02296049	CHARLIE CREEK NEAR AVON PARK	49.4	055	2733530813817	14	MS LF
10-51	02296180	LITTLE CHARLEY BOWLEGS CREEK NEAR CREWSVILLE	21.2	055	2725480813304	6	LF
10-52	02296191	L CHARLEY BOWLEGS C AT SFL RD, NEAR SEBRING	30.6	055	2727480813315	1	MS
10-53	02296201	HAW BRANCH NEAR SEBRING	5.31	055	2727490813154	35	PM LF
10-54	02296215	TIGER BRANCH NEAR SEBRING	2.2	055	2728360813153	39	PM LF
10-55	**02296223**	**LITTLE CHARLEY BOWLEGS CREEK NEAR SEBRING**	**41.9**	**055**	**2728400813325**	DV	**GS**
10-56	02296260	CHARLIE CREEK NEAR CREWSVILLE	142	049	2727330814043	9	MS LF
10-57	**02296389**	**OAK CREEK NEAR GARDNERA**	**67.0**	**049**	**2724420814144**	11	**MS LF**
10-58	**02296408**	**CHARLIE CREEK NEAR ZOLFO SPRINGS**	**289**	**049**	**2724330814446**	21	**PM LF**
10-59	**02296500**	**CHARLIE CREEK NEAR GARDNER**	**330**	**049**	**2722290814748**	DV	**GS**
10-60	02296600	PEACE RIVER AT BROWNVILLE	1320	027	2718090815048	3	PM
10-61	02296746	PEACE RIVER TRIBUTARY NEAR ARCADIA	--	027	2713520815244	2	MS
10-62	**02296750**	**PEACE RIVER AT ARCADIA**	**1367**	**027**	**2713190815234**	DV	**GS**
10-63	02296925	JOSHUA CREEK AT PARKER RANCH NEAR ARCADIA	--	027	2712310814532	1	MS
10-64	02296955	JOSHUA SLOUGH AT SR70 NEAR ADCADIA	8.20	027	2712320814816	1	MS
10-65	02297000	JOSHUA CREEK NEAR ARCADIA	62.6	027	2710410814941	6	MS LF
10-66	02297088	HAWTHORN CREEK AT CR760-A NEAR NOCATEE	39.0	027	2709020815131	1	MS
10-67	02297090	HAWTHORNE CREEK NEAR NOCATEE	39.8	027	2709270815143	11	PM LF
10-68	**02297100**	**JOSHUA CREEK AT NOCATEE**	**132**	**027**	**2709590815247**	DV	**GS**
10-69	02297105	PEACE RIVER AT NOCATEE	--	027	2709430815406	2	MS
10-70	02297147	HORSE CREEK NEAR FORT GREEN SPRINGS	13.3	049	2735410820149	10	MS LF
10-71	**02297155**	**HORSE CREEK NEAR MYAKKA HEAD**	**42.0**	**049**	**2729130820125**	DV	**GS**
10-72	**02297251**	**HORSE CREEK NEAR LIMESTONE**	**130**	**049**	**2721580815825**	10	**CG MS LF**
10-73	**02297266**	**HORSE CREEK NEAR PINE LEVEL**	**150**	**027**	**2715180815805**	6	**MS LF**
10-74	**02297310**	**HORSE CREEK NEAR ARCADIA**	**218**	**027**	**2711570815919**	DV	**GS**
10-75	02297320	HORSE CREEK NEAR NOCATEE	--	027	2709310815758	1	CG MS
10-76	02297344	PEACE RIVER AT STATE HIGHWAY 761 NEAR FT.OGDEN	1790	027	2705180815938	1	MS
10-77	02297444	LEE BRANCH NEAR CLEVELAND	5.4	015	2701200815732	12	PM LF
10-78	02297733	MOSSY GULLY TRIB AT ST HWY 70 NEAR ARCADIA	6.64	027	2712310814041	--	GS
10-79	02297757	LONG POINT MARSH NEAR ARCADIA	13.6	027	2712320813752	7	PM LF
10-80	**02298123**	**PRAIRIE CREEK NEAR FORT OGDEN**	**233**	**027**	**2703060814705**	DV	**GS**
10-81	**02298202**	**SHELL CREEK NEAR PUNTA GORDA**	**373**	**015**	**2659040815609**	DV	**GS**
10-82	02298245	MYRTLE SLOUGH NEAR CLEVELAND	6.2	015	2656480815603	11	MS LF
10-83	02298285	BROAD CREEK NEAR PUNTA GORDA	3.90	015	2655340820052	10	MS LF
STREAMFLOW SITES IN HYDROLOGIC UNIT 03100102 (MYAKKA RIVER BASIN)							
10-84	02298458	MYAKKA R. NEAR MYAKKA HEAD	10.8	081	2727350820640	15	PM LF
10-85	02298478	WINGATE CREEK NEAR MYAKKA HEAD	--	081	2727340820820	3	MS
10-86	02298482	JOHNSON CREEK NEAR MYAKKA HEAD	3.18	081	2727340820849	--	GS
10-87	02298484	WINGATE CREEK NEAR MYAKKA CITY	12.1	081	2727080820832	9	PM
10-88	02298523	OGLEBY CREEK NEAR MYAKKA CITY	11.4	081	2722470811408	9	LF
10-89	02298554	MYAKKA RIVER NEAR MYAKKA CITY	--	081	2721570820858	3	MS
10-90	**02298608**	**MYAKKA RIVER AT MYAKKA CITY**	**125**	**081**	**2720360820925**	DV	**GS**

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Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measurements	Type of site
10-91	**02298709**	**HOWARD CREEK TRIB NEAR SARASOTA**	**6.92**	**115**	**2717100821828**	**25**	**PM**
10-92	**02298760**	**HOWARD CREEK NEAR SARASOTA**	**20.0**	**115**	**2717170822025**	**37**	**GS**
10-93	02298805	MYAKKA RIVER BL UPPER MYAKKA LK NEAR SARASOTA	219	115	2715500821715	--	GS
10-94	**02298830**	**MYAKKA RIVER NEAR SARASOTA**	**229**	**115**	**2714250821850**	DV	**GS**
10-95	02298850	MYAKKA R BL LOWER MYAKKA LK NEAR SARASOTA	240	115	2713050822000	--	MS
10-96	02298880	MYAKKA RIVER AT CONTROL NEAR LAUREL	253	115	2711070822112	12	PM
10-97	02298900	MYAKKA RIVER NEAR LAUREL	258	115	2709470822157	10	PM
10-98	02298930	MYAKKA RIVER AT BLACKBURN BRIDGE NEAR VENICE	272	115	2707200822102	--	CG PM
10-99	02298970	MYAKKA RIVER TRIB NEAR VENICE	2.63	115	2905280822019	10	MS LF
10-100	02299020	MYAKKA RIVER TRIB 2 NEAR VENICE	3.44	115	2702400821900	4	MS
10-101	02299030	MYAKKA RIVER TRIB 3 NEAR VENICE	.41	115	2703170821841	4	MS
10-102	02299035	MYAKKA RIVER TRIB 4 NEAR VENICE	.64	115	2703000821826	4	MS
10-103	02299060	DEER PRAIRE SLOUGH NEAR MYAKKA CITY	--	115	2710330821242	40	PM
10-104	**02299160**	**DEER PRAIRIE SLOUGH NEAR NORTH PORT CHARLOTTE**	**33.2**	**115**	**2706510821500**	DV	**GS**
10-105	02299188	DEER PRAIRIE CREEK NEAR WARM MINERAL SPRINGS	40.5	115	2705550821618	4	LF
10-106	02299190	DEER PRAIRIE CREEK NEAR WOODMERE	--	115	2705190821636	12	PM
10-107	02299210	DEER PRAIRIE CREEK NEAR VENICE	42.8	115	2703510821714	3	MS
10-108	02299225	MYAKKA RIVER TRIB 5 NEAR VENICE	1.38	115	2702470821816	4	MS
10-109	02299350	COCOPLUM WATERWAY TRIBUTARY NEAR MURDOCK	10.5	115	2705490821056	40	CG LF PM
10-110	**02299410**	**BIG SLOUGH CANAL NEAR MYAKKA CITY**	**36.5**	**115**	**2711350820840**	DV	**CG GS**
10-111	02299420	MUD LAKE SLOUGH NEAR MYAKKA CITY	17.0	115	2711340820922	51	PM LF
10-112	02299455	BIG SLOUGH CANAL AT N. PORT CHARLOTTE	86.2	115	2706300821220	13	PM
10-113	**02299470**	**BIG SLOUTH NEAR MURDOCK**	**92.5**	**115**	**2704150821305**	DV	**GS**
STREAMFLOW SITES IN HYDROLOGIC UNIT 03100201 (COASTAL AREA BETWEEN MYAKKA AND MANATEE RIVERS)							
10-116	02299661	EAST BRANCH CORAL CREEK NEAR PLACIDIA	2.73	015	2652060821417	8	PM
10-117	02299678	OYSTER CREEK NEAR ENGLEWOOD	5.03	015	2656030821811	10	PM
10-118	02299684	FORKED CREEK NEAR ENGLEWOOD	3.4	115	2700350822206	28	PM
10-119	02299687	ALLIGATOR CREEK NEAR WOODMERE	--	115	2703250822349	8	PM
10-120	02299692	BLACKBURN CANAL NEAR VENICE	--	115	2706410822137	3	MS
10-121	02299695	GUM SLOUGH NEAR UTOPIA	--	115	2720180822140	4	MS
10-122	02299700	COW PEN SLOUGH NEAR BEE RIDGE	38.0	115	2714560822310	--	GS
10-123	02299721	COW PEN SLOUGH NEAR VENICE	56.0	115	2710000822345	18	PM LF
10-124	02299724	SALT CREEK TRIBUTARY NEAR LAUREL	.30	115	2709330822448	7	LF
10-125	02299725	SALT CREEK NEAR LAUREL	--	115	2708500822510	1	MS
10-126	**02299728**	**FOX CREEK NEAR LAUREL**	**10.0**	**115**	**2709540822543**	16	**PM LF**
10-127	02299738	SOUTH CREEK NEAR OSPREY	3.00	115	2710320822730	15	PM LF
10-128	02299741	CATFISH CREEK NEAR OSPREY	--	115	2713320822746	1	MS
10-129	02299750	PHILLIPPE CREEK NEAR SARASOTA	24.0	115	2718300822706	--	GS
10-130	02299780	PHILLIPPI CREEK NEAR BEE RIDGE	30.0	115	2719220822853	4	MS
10-131	02299795	NORTH BRANCH CANAL AT SARASOTA	10.0	115	2720140822948	15	PM LF
10-132	02299800	PHILLIPPE CREEK AT SARASOTA	45.0	115	2719200823020	4	CG MS
10-133	02299807	PHILLIPE CREEK AT HAYDEN	53.0	115	2716550823119	--	GS
10-134	02299835	HUDSON BAYOU AT SARASOTA	--	115	2719090823126	1	MS
10-135	02299861	WALKER CREEK AT SARASOTA	6.00	115	2722030823240	15	PM LF
10-136	02299869	BOLEES CREEK AT ONECO	--	081	2727030823240	11	PM LF

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Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measurements	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03100202 (MANATEE RIVER BASIN)							
10-137	02299902	CEDAR HAMMOCK DRAINAGE CANAL NEAR BRADENTON	--	081	2727320823422	1	MS
10-138	02299913	NORTH FORK MANATEE RIVER NEAR DUETTE	6.29	081	2735230820740	3	MS
10-139	**02299920**	**NORTH FORK MANATEE RIVER NEAR MYAKKA CITY**	**16.2**	**081**	**2731500821019**	12	**PM LF**
10-140	**02299950**	**MANATEE RIVER NEAR MYAKKA HEAD**	**65.3**	**081**	**2728240821241**	DV	**GS**
10-141	02299975	EAST FORK MANATEE RIVER NEAR MYAKKA CITY	11.4	081	2713190820614	12	PM LF
10-142	**02300000**	**MANATEE RIVER NEAR BRADENTON**	**87.1**	**081**	**2728300821805**	DV	**GS**
10-143	**02300004**	***GILLEY CREEK NEAR RYE***	**10.2**	**081**	**2730410821715**	13	**PM LF**
10-144	02300010	MILL CREEK NEAR LORRAINE	6.90	081	2728570822425	1	CG MS
10-145	02300016	SAND PRAIRIE DRAIN NEAR PARRISH	4.40	081	2735340822252	--	CG
10-146	02300018	GAMBLE CREEK NEAR PARRISH	50.6	081	2733110822324	13	CG PM LF
10-147	**02300029**	**BRADEN RIVER AT LORRAINE**	**20.1**	**081**	**2725040822358**	5	**LF**
10-148	**02300032**	**BRADEN RIVER NEAR BRADENTON**	**25.8**	**081**	**2725200822500**	11	**PM**
10-149	02300034	HICKORY HAMMOCK NEAR BRADENTON	--	081	2725180822556	5	PM
10-150	02300035	BRADEN RIVER NEAR ONECO	--	081	2725100822640	4	MS
10-151	02300037	CEDAR CREEK NEAR BRADENTON	--	081	2724520822856	4	PM
10-152	02300038	RATTLESNAKE SLOUGH NEAR BRADENTON	--	081	2725250822927	6	PM
10-153	02300039	NONSENSE CREEK NEAR BRADENTON	--	081	2726080822805	7	PM
10-154	02300040	BRADEN RIVER NEAR BRADENTON	59.0	081	2726010822913	2	MS
10-155	02300058	GAP CREEK NEAR ONECO	--	081	2726470823037	3	MS
10-156	02300067	WARES CREEK AT BRADENTON	--	081	2728330823432	4	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03100203 (LITTLE MANATEE RIVER BASIN)							
10-157	02300092	LT MANATEE R AT TAYLOR-GILL RD NEAR FT LONESOME	6.10	057	2741560820715	--	GS
10-158	02300093	UNNAMED TRIB AT CNTL SITE SRD674 NEAR FT LONESOME	.46	057	2742150820720	17	PM
10-159	02300096	ALDERMAN CREEK NEAR FT. LONESOME	9.40	057	2740280820716	--	GS
10-160	02300098	LITTLE MANATEE RIVER NEAR BALM	--	057	2741160820842	3	MS
10-161	02300100	LITTLE MANATEE RIVER NEAR FT. LONESOME	32.9	057	2742160821153	DV	GS
10-162	02300120	PIERCE BRANCH NEAR WIMAUMA	7.90	057	2742170821348	5	LF
10-163	02300130	CARLTON BRANCH NEAR WIMAUMA	7.86	057	2742160821524	12	GS
10-164	02300150	LITTLE MANATEE RIVER AT ST. HWY. 579 NEAR WIMAUMA	74.9	057	2739450821805	5	PM
10-165	02300200	SOUTH FORK LITTLE MANATEE RIVER NEAR DUETTE	9.40	081	2735250821057	26	PM LF MS
10-166	02300300	SOUTH FORK LITTLE MANATEE RIVER NEAR WIMAUMA	--	057	2738570821740	29	MS LF GS
10-167	02300430	DUG CREEK NEAR WIMAUMA	3.60	057	2741250822017	19	CG MSGS
10-168	02300500	LITTLE MANATEE RIVER NEAR WIMAUMA	149	057	2740150822110	DV	GS
10-169	02300530	CYPRESS CREEK NEAR WIMAUMA	8.10	057	2742270822150	54	GS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03100204 (ALAFIA RIVER BASIN)							
10-170	**02300852**	**NORTH PRONG ALAFIA RIVER AT MULBERRY**	**63.0**	**105**	**2753190815826**	27	**PM LF**
10-171	**02300882**	**NORTH PRONG ALAFIA RIVER NEAR NICHOLS**	**--**	**105**	**2753240820043**	12	**PM**
10-172	**02300907**	**LAKE DRAIN NEAR MULBERRY**	**3.3**	**105**	**2757300815824**	8	**MS LF**
10-173	**02300930**	**POLEY CREEK NEAR MULBERRY**	**25.9**	**105**	**2755230820150**	21	**MS LF**
10-174	**02300978**	**ENGLISH CREEK NEAR MULBERRY**	**31.4**	**057**	**2755360820356**	26	**PM LF**
10-175	**02301000**	**NORTH PRONG ALAFIA RIVER AT KEYSVILLE**	**135**	**057**	**2753010820601**	DV	**GS**
10-176	**02301070**	**SOUTH PRONG ALAFIA RIVER NEAR BRADLEY JCT**	**41.3**	**105**	**2746010815929**	10	**MS LF**
10-177	**02301300**	**SOUTH PRONG ALAFIA RIVER NEAR LITHIA**	**107**	**057**	**2747470820704**	DV	**GS**
10-178	**02301314**	**MIZELLE CREEK NEAR KEYSVILLE**	**3.69**	**057**	**2750140820517**	47	**GS LF PM**
10-179	**02301328**	**ALAFIA RIVER NEAR KEYSVILLE**	**277**	**057**	**2751580820838**	9	**MS LF**
10-180	**02301350**	**LITTLE ALAFIA RIVER NEAR HOPEWELL**	**8.65**	**057**	**2756150820923**	DV	**GS**

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10-181	02301370	L ALAFIA R AT TURK CR RD AT PLEASANT GROVE	19.6	057	2754340821015	--	PM
10-182	02301373	LITTLE ALAFIA R AT PLEASANT GROVE	--	057	2754240821033	12	PM
10-183	**02301376**	**LITTLE ALAFIA RIVER AT DURANT**	**20.8**	**057**	**2753540821113**	8	**MS LF**
10-184	02301400	TURKEY CREEK NEAR DURANT	14.2	057	2756150821139	--	GS PM
10-185	**02301500**	**ALAFIA RIVER AT LITHIA**	**335**	**057**	**2752190821241**	DV	**GS**
10-186	**02301620**	**FISHHAWK CREEK NEAR BOYETTE**	**17.4**	**057**	**2749220821213**	11	**MS LF PM**
10-187	**02301638**	**ALAFIA RIVER NEAR RIVERVIEW**	**372**	**057**	**2751120821610**	12	**MS PM**
10-188	**02301680**	**BELL CREEK NEAR RIVERVIEW**	**20.1**	**057**	**2751120821627**	35	**MS LF PM**
10-189	02301695	BUCKHORN CREEK NEAR BRANDON	7.12	057	2753360821755	29	PM GS
10-190	02301697	BUCKHORN CREEK TRIBUTARY SG NEAR RIVERVIEW	--	057	2753200821810	2	MS
10-191	02301718	ALAFIA RIVER AT RIVERVIEW	--	057	2752060821936	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03100205 (HILLSBOROUGH RIVER BASIN)							
10-192	**02301900**	**FOX BRANCH NEAR SOCRUM**	**9.50**	**105**	**2810550820045**	DV	**GS**
10-193	02301980	ZEPHYR CREEK NEAR ZEPHYRHILLS	1.93	101	2814110821248	3	CG MS
10-194	**02301990**	**HILLSB. R AB CRYSTAL SPRINGS NEAR ZEPHYRHILLS**	**82.0**	**101**	**2811070821103**	388	**PM GS**
10-195	**02302010**	**HILLSBOROUGH R BL CRYSTAL SG NEAR ZEPHYRHILLS**	**--**	**101**	**2810430821121**	388	**PM**
10-196	02302100	BIG DITCH NEAR CRYSTAL SPRINGS	1.60	057	2809350820910	76	PM MS
10-197	**02302260**	**ITCHEPAKESASSA CREEK AT S-582 NEAR KNIGHTS**	**34**	**057**	**2804490820424**	9	**CG LF MS**
10-198	**02302500**	**BLACKWATER CREEK NEAR KNIGHTS**	**110**	**057**	**2808250820900**	DV	**GS**
10-199	**02303000**	**HILLSBOROUGH RIVER NEAR ZEPHYRHILLS**	**220**	**057**	**2808590821357**	DV	**GS**
10-200	**02303100**	**NEW RIVER NEAR ZEPHYRHILLS**	**15.0**	**057**	**2809550821555**	DV	**GS**
10-201	**02303130**	**BUSY BRANCH NEAR ZEPHYRHILLS**	**11.0**	**057**	**2808480821648**	23	**PM LF**
10-202	02303167	SPARKMAN BRANCH NEAR PLANT CITY	8.2	057	2801320821113	--	MS
10-203	02303174	WESTSIDE CANAL AT PLANT CITY	--	057	2801110820814	13	GS
10-204	02303183	MILL CREEK AT THONO. RD NEAR PLANT CITY	7.8	057	2802080820951	7	MS LF
10-205	02303188	MILL CREEK AT FORBES RD NEAR PLANT CITY	9.1	057	2801500821114	8	MS LF
10-206	**02303200**	**PEMBERTON CREEK NEAR DOVER**	**240**	**057**	**2801340821412**	37	**GS PM LF**
10-207	02303250	T. GALLAGHER DITCH NEAR DOVER	..47	057	2800240821442	--	GS
10-208	02303254	BAKER CREEK TRIBUTARY CANAL NEAR SEFFNER	24.0	057	2800470821525	7	MS LF
10-209	**02303271**	**BAKER CREEK NEAR THONOTOSASSA**	**58.0**	**057**	**2802520821604**	56	**PM LF**
10-210	**02303300**	**FLINT CREEK NEAR THONOTOSASSA**	**60.0**	**057**	**2804040821604**	DV	**GS**
10-211	02303313	CAMPBELL BRANCH NEAR THONOTASSSSA	5.90	057	2803090821458	--	GS
10-212	02303320	FLINT CREEK AT ST HWY 582, NEAR THONOTOSASSA	70.0	057	2804330821549	--	MS
10-213	**02303330**	**HILLSBOROUGH R AT MORRIS BR NEAR THONOTOSASSA**	**375**	**057**	**2805500821845**	DV	**GS**
10-214	02303344	TROUT CREEK TRIBUTARY NEAR WORTHINGTON GARDENS	3.0	101	2812540822324	63	PM LF
10-215	**02303350**	**TROUT CREEK NEAR SULPHUR SPRINGS**	**23.0**	**101**	**2808200822150**	DV	**GS**
10-216	**02303352**	**TROUT CREEK NEAR TEMPLE TERRACE**	**31.0**	**057**	**2805520822130**	73	**PM**
10-217	**02303358**	**CYPRESS CREEK NEAR DARBY**	**7.11**	**101**	**2822320821947**	59	**GS LF**
10-218	**02303400**	**CYPRESS CREEK NEAR SAN ANTONIO**	**56.0**	**101**	**2819250822303**	DV	**GS**
10-219	02303408	CYPRESS CREEK NEAR DREXEL	73.2	101	2816430822435	--	GS
10-220	**02303420**	**CYPRESS CREEK AT WORTHINGTON GARDENS**	**117**	**101**	**2811080822403**	DV	**GS**
10-221	02303433	HANNA LAKE OUTLET NEAR LUTZ	.74	057	2808100822635	--	GS MS
10-222	**02303800**	**CYPRESS CREEK NEAR SULPHUR SPRINGS**	**160**	**057**	**2805200822433**	DV	**GS**
10-223	02303990	COW HOUSE CREEK NEAR TEMPLE TERRACE	--	057	2803300822110	130	PM LF
10-224	02304000	HILLSBOROUGH R AT FOWLER AV NEAR TEMPLE TERRACE	630	057	2803150822150	--	GS MS
10-225	**02304500**	**HILLSBOROUGH RIVER NEAR TAMPA**	**650**	**057**	**2801250822541**	DV	**GS**

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10-226	02305000	HUTCHINS LAKE OUTLET NEAR LUTZ	2.70	057	2807400822915	--	GS MS
10-227	02305275	BRANT-CHARLES CANAL NEAR LUTZ	.90	057	2807060822840	45	PM
10-228	02305312	BIRD-PLATT CANAL NEAR LUTZ	7.80	057	2805390822855	48	PM
10-229	**02305500**	**DR DITCH AT BEARSS AVE NEAR SULPHUR SPRINGS**	**12.0**	**057**	**2805160822755**	DV	**GS**
10-230	02305780	CURIOSITY CREEK NEAR SULPHUR SPRINGS	1.37	057	2804070822724	67	GS
10-231	02305800	DR DITCH AT AVE & ATLANTIC BLVD, NEAR SULPHUR	14.0	057	2803550822734	51	PM LF
10-232	**02306000**	**SULPHUR SPRINGS AT SULPHUR SPRINGS**	**--**	**057**	**2801150822707**	DV	**GS**
STREAMFLOW SITES IN HYDROLOGIC UNIT 03100206 (TAMPA BAY AND COASTAL AREAS)							
10-233	02300078	FROG CREEK NEAR TERRA CEIA	13.8	081	2734500823139	10	MS LF
10-234	02300080	CABBAGE SLOUGH NEAR TERRA CEIA	3.96	081	2735170823139	10	MS
10-235	02300098	LITTLE MANATEE RIVER NEAR BALM	--	057	2741160820842	3	MS
10-236	**02300700**	**BULLFROG CREEK NEAR WIMAUMA**	**29.1**	**057**	**2747300822109**	DV	**CG GS**
10-237	02301750	DELANEY CREEK NEAR TAMPA	16.1	057	2755320822152	52	GS
10-238	02301776	SIXMILE CREEK NEAR TAMPA	--	057	2749420822103	--	MS
10-239	02301780	SIXMILE CREEK AT BUFFALO AVE NEAR TAMPA	16.0	057	2758520822117	--	GS
10-240	02301787	SIXMILE CREEK TRIBUTARY NO. 3 NEAR TAMPA	8.00	057	2758420822007	7	MS LF
10-241	02301794	SIXMILE CREEK TRIBUTARY NO. 4 NEAR TAMPA	1.80	057	2758520822210	7	MS LF
10-242	02301798	SIXMILE CREEK TRIBUTARY NO. 5 NEAR TAMPA	.60	057	2758010822217	6	MS LF
10-243	02301800	SIXMILE CREEK AT TAMPA	28.0	057	2757590822207	DV	GS
10-244	**02301802**	**TAMPA BYPASS CANAL AT S-160,AT TAMPA**	**--**	**057**	**2757210822215**	DV	**GS**
10-245	02301840	TWENTY-NINTH ST DRAINAGE C AT 34TH ST, TAMPA	2.70	057	2757140822521	19	PM
10-246	**02306289**	**LAKE MAGDALENE OUTLET NEAR LUTZ**	**2.20**	**057**	**2804260823001**	DV	**GS**
10-247	**02306500**	**SWEETWATER CREEK NEAR SULPHUR SPRINGS**	**7.43**	**057**	**2802330823044**	DV	**GS**
10-248	02306647	SWEETWATER CREEK NEAR TAMPA	14.3	057	2800490823243	149	PM GS
10-249	02306654	HENEARY STREET CANAL NEAR TAMPA	--	057	2759590823305	27	GS
10-250	**02306717**	**ROCKY CREEK NEAR LUTZ**	**4.70**	**057**	**2809250823020**	46	**PM LF**
10-251	**02306770**	**ROCKY CREEK AT CITRUS PARK**	**16.7**	**057**	**2804420823355**	19	**PM LF**
10-252	**02306774**	**ROCKY CREEK AT ST HWY 587 AT CITRUS PARK**	**17.8**	**057**	**2803550823357**	29	**PM LF GS**
10-253	**02306904**	**BRUSHY CREEK NEAR SULPHUR SPRINGS**	**6.20**	**057**	**2805030823129**	37	**PM LF**
10-254	**02306910**	**BRUSHY CREEK NEAR TAMPA**	**7.16**	**057**	**2804100823157**	55	**GS**
10-255	**02306927**	**BRUSHY CREEK TRIBUTARY NEAR CITRUS PARK**	**1.60**	**057**	**2804530823243**	29	**PM LF**
10-256	02306950	BRUSHY CREEK NEAR CITRUS PARK	11.9	057	2803530823320	55	PM LF
10-257	**02307000**	**ROCKY CREEK NEAR SULPHUR SPRINGS**	**35.0**	**057**	**2802120823434**	DV	**GS**
10-258	02307027	DOUBLE BRANCH TRIBUTARY CANAL NEAR OLDSMAR	2.60	057	2804270823734	4	LF
10-259	**02307181**	**BROOKER CREEK NEAR LUTZ**	**1.14**	**057**	**2809310823254**	46	**PM LF**
10-260	02307200	BROOKER CREEK @ VAN DYKE RD NEAR CITRUS PARK	5.01	057	2807430823414	39	GS
10-261	02307243	BROOKER CREEK NEAR ODESSA	10.0	057	2808500823540	--	GS
10-262	**02307323**	**BROOKER CREEK NEAR LAKE FERN**	**17.0**	**057**	**2808260823824**	DV	**GS**
10-263	**02307359**	**BROOKER CREEK NEAR TARPON SPRINGS**	**30.0**	**103**	**2805450824115**	DV	**GS**
10-264	**02307498**	**LAKE TARPON CANAL AT S-551, NEAR OLDSMAR**	**60.0**	**103**	**2803120824240**	DV	**GS**
10-265	02307537	SOUTH FORK BISHOP CREEK NEAR OLDSMAR	.80	103	2800560824142	27	PM LF
10-266	02307542	NORTH FORK BISHOP CREEK NEAR OLDSMAR	1.00	103	2801110824121	--	PM
10-267	02307544	BISHOP CREEK NEAR OLDSMAR	2.02	103	2801050824114	--	PM
10-268	02307671	ALLIGATOR CR BELOW US HWY 19 AT CLEARWATER	6.17	103	2758300824341	86	GS
10-269	02307672	ALLIGATOR CREEK TRIBUTARY AT CLEARWATER	.27	103	2758190824333	26	GS
10-270	02307673	ALLIGATOR CREEK AT CLEARWATER	6.73	103	2758220824257	102	GS

Table 5. Streamflow sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area) where low-flow information are available--Continued

[ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See Table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 13.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measurements	Type of site
10-271	02307676	ALLIGATOR CREEK NEAR SAFETY HARBOR	--	103	2758430824132	--	MS
10-272	02307688	ALLIGATOR CREEK TRIBUTARY AT SAFETY HARBOR	.76	103	2758560824227	12	PM LF
10-273	**02307697**	**ALLIGATOR CREEK AT SAFETY HARBOR**	**9.00**	**103**	**2758450824145**	DV	**GS**
10-274	02307731	ALLEN CREEK NEAR LARGO	1.88	103	2756300824500	--	GS
10-275	02307828	DRAINAGE DITCH AT 110TH AV N NEAR PINELLAS PARK	--	103	2752180824038	--	GS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03100207 (COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER)							
10-276	02308889	SEMINOLE LAKE OUTLET NEAR LARGO	14.0	103	2750200824650	DV	GS
10-277	02308929	SAINT JOES CREEK AT ST.PETERSBURG	1.72	103	2748480824047	--	GS
10-278	02308931	SAINT JOE CREEK AT LEALMAN	2.00	103	2748570824114	11	PM
10-279	02308935	SAINT JOE CREEK AT PINELLAS PARK	2.55	103	2748500824145	50	GS
10-280	02308990	BONN CREEK AT PINELLAS PARK	--	103	2749210824408	--	GS
10-281	02309011	UNNAMED LAKE OUTLET NEAR ST. PETERSBURG	.18	103	2747530824452	--	PM
10-282	02309258	STEVENSON CREEK AT CLEARWATER	4.88	103	2758190824654	44	PM LF
10-283	02309421	CURLEW CREEK NEAR OZONA	3.40	103	2802240824451	61	PM LF
10-284	02309502	INNISBROOK CANAL NEAR CRYSTAL BEACH	1.50	103	2806340824532	--	PM
10-285	**02309648**	**ANCLOTE RIVER NEAR FIVAY JUNCTION**	**9.00**	**101**	**2815230823158**	20	**PM LF**
10-286	**02309848**	**SOUTH BRANCH ANCLOTE RIVER NEAR ODESSA**	**17.1**	**101**	**2811080823313**	DV	**GS**
10-287	**02309900**	**SOUTH BRANCH ANCLOTE RIVER AT ODESSA**	**25.3**	**101**	**2812150823542**	20	**PM LF**
10-288	**02309980**	**ANCLOTE RIVER NEAR ODESSA**	**68.1**	**101**	**2813170823807**	26	**GS**
10-289	**02310000**	**ANCLOTE RIVER NEAR ELFERS**	**72.5**	**101**	**2812500824000**	DV	**GS**
10-290	**02310147**	**HOLLIN CREEK NEAR TARPON SPRINGS**	**4.4**	**103**	**2809440824238**	55	**GS**
10-291	02310150	HOLLIN CREEK AT COUNTY ROAD 77 NEAR TARPON SPRINGS	5.0	103	2809480824246	44	PM LF
10-292	02310212	PECK SINK DRAIN NEAR BROOKSVILLE	16.6	053	2832000822545	--	CG PM
10-293	02310224	SPARKMAN LAKE OUTLET NEAR MASARYKTOWN	11.6	053	2827230822214	13	PM LF
10-294	**02310240**	**JUMPING GULLY AT LOYCE**	**43.0**	**101**	**2823060822922**	DV	**GS**
10-295	**02310280**	**PITHLACHASCOTEE RIVER NEAR FIVAY JUNCTION**	**150**	**101**	**2819440823213**	140	**PM LF GS**
10-296	**02310285**	**FIVE MILE CREEK NEAR FIVAY JUNCTION**	**7.05**	**101**	**2817200823150**	20	**PM LF**
10-297	02310291	PITHLACHASCOTEE R AT CROCKETT RAN NEAR N P RICHEY	169	101	2816320823540	7	MS
10-298	**02310300**	**PITHLACHASCOTEE RIVER NEAR NEW PORT RICHEY**	**180**	**101**	**2815190823937**	DV	**GS**
10-299	02310350	BEAR CREEK NEAR HUDSON	22.0	101	2819100823906	--	GS
10-300	02310352	BEAR CREEK AT PLAZA DRIVE NEAR HUDSON	29.2	101	2819380823959	87	GS
10-301	02310355	BEAR CREEK BL BEAR SINK NEAR HUDSON	29.7	101	2819500824022	--	CG PM
10-302	02310550	WEEKIWACHEE RIVER NEAR BAYPORT	--	053	2831560823738	--	GS
10-303	02310650	CHASSAHOWITZKA RIVER NEAR HOMOSASSA	--	017	2842540823438	122	MS PM
10-304	02310690	HALLS RIVER NEAR HOMOSASSA	--	017	2848040823610	--	PM
STREAMFLOW SITES IN HYDROLOGIC UNIT 03100208 (WITHLACOOCHEE RIVER BASIN)							
10-305	**02310787**	**WITHLACOOCHEE RIVER NEAR POYNER**	**16.0**	**105**	**2818210814736**	5	**MS LF**
10-306	**02310800**	**WITHLACOOCHEE RIVER NEAR EVA**	**130**	**105**	**2821380814908**	DV	**GS**
10-307	02310900	PONY CREEK NEAR POLK CITY	9.50	105	2815030814851	--	GS
10-308	**02310912**	**PONY CREEK NEAR POYNER**	**24**	**105**	**2818390815331**	4	**LF**
10-309	**02310931**	**WITHLACOOCHEE RIVER NEAR ROCK RIDGE**	**235**	**105**	**2819320815556**	9	**MS LF**
10-310	**02310944**	**WITHLACOOCHEE R AT CEDAR FORD NEAR CUMPRESSCO**	**260**	**119**	**2819200820024**	4	**MS LF**
10-311	**02310947**	**WITHLACOOCHEE RIVER NEAR CUMPRESSCO**	**280**	**101**	**2818420820322**	DV	**GS**
10-312	**02310995**	**GATOR CREEK NEAR RICHLAND**	**80.0**	**101**	**2818080820322**	20	**PM LF**
10-313	**02311000**	**WITHLACOOCHE-HILLSBOROUGH OV NEAR RICHLANDA**	**--**	**101**	**2816160820553**	DV	**GS**
10-314	02311005	WITHLACOOCHEE RIVER NEAR RICHLAND	365	101	2817090820624	2	MS
10-315	**02311500**	**WITHLACOOCHEE RIVER NEAR DADE CITY**	**390**	**101**	**2821080820734**	240	**PM GS**

Table 5. Streamflow sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area) where low-flow information are available--Continued

[ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See Table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicate sites and stations where low-flow characteristics have been determined. These data are presented in Table 13.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measurements	Type of site
10-316	02311698	PASCO PACKING COMPANY CANAL NEAR DADE CITY	--	101	2822530821112	--	PM
10-317	02311700	DADE CITY CANAL NEAR DADE CITY	35.0	101	2822550821048	180	PM
10-318	02311750	DADE CITY CANAL AT MUD LAKE NEAR DADE CITY	40.0	101	2824260820955	2	MS
10-319	02311787	WITHLACOOCHEE RIVER NEAR LACOOCHEE	465	101	2826330820948	12	MS PM
10-320	02311836	DEVILS CREEK NEAR LACOOCHEE	35.0	101	2825500820511	5	MS
10-321	**02311890**	**GATOR HOLE SLOUGH NEAR LACOOCHEE**	**40**	**101**	**2827120820508**	5	**LF**
10-322	**02312000**	**WITHLACOOCHEE RIVER AT TRILBY**	**570**	**053**	**282847082104**	DV	**GS**
10-323	**02312140**	**BAYROOT SLOUGH HEADWATERS NEAR BAYLAKE**	**18.0**	**069**	**2827230815514**	90	**PM**
10-324	**02312145**	**MILL CREEK NEAR CARTERS ISLAND**	**17.0**	**069**	**2829400815435**	6	**MS LF**
10-325	**02312180**	**LITTLE WITHLACOOCHEE RIVER NEAR TARRYTOWN**	**85.0**	**119**	**2831170820318**	DV	**GS**
10-326	02312194	BIG GANT CANAL AT S-11 NEAR WEBSTER	18.0	119	2834470820545	71	PM
10-327	02312197	BIG GANT CANAL AT STRUCT WC-2 AT RERDELL	30.0	119	2834160820854	98	PM
10-328	**02312200**	**LITTLE WITHLACOOCHEE RIVER AT RERDELL**	**145**	**053**	**2834210820920**	DV	**GS**
10-329	**02312500**	**WITHLACOOCHEE RIVER AT CROOM**	**810**	**053**	**2835330821320**	DV	**GS**
10-330	02312530	BLUE SINK DRAIN NEAR BROOKSVILLE	68.4	053	2836300822021	--	CG PM
10-331	02312600	WITHLACOOCHEE RIVER NEAR FLORAL CITY	995	017	2844360821313	172	PM GS
10-332	**02312635**	**JUMPER CREEK NEAR SUMTERVILLE**	**28.6**	**119**	**2841460820318**	DV	**GS**
10-333	**2312640**	**JUMPER CREEK CANAL NEAR BUSHNELL**	**40.0**	**119**	**2841450820634**	DV	**GS**
10-334	**02312645**	**JUMPER CK CANAL NEAR WAHOO**	**50.6**	**119**	**2842150820926**	DV	**GS**
10-335	02312667	SHADY BROOK NEAR SUMTERVILLE	8.00	119	2846100820400	52	MS GS
10-336	02312685	WALLED SINK DRAIN NEAR COLEMAN	90.0	119	2845050820205	--	CG PM
10-337	**02312690**	**CHITTY CHATTY CREEK NEAR WILDWOOD**	**38.0**	**119**	**2848330815859**	DV	**GS**
10-338	**02312700**	**OUTLET RIVER AT PANACOOCHEE RETREATS**	**420**	**119**	**2849010820840**	DV	**GS**
10-339	02312719	WITHLACOOCHEE RI AB WYSONG DAM, AT CARLSON	152	119	2849220821058	--	PM
10-340	**02312720**	**WITHLACOOCHEE R AT WYSONG DAM AT CARLSON**	**1520**	**119**	**2849230821100**	DV	**GS**
10-341	02312726	RUTLAND CREEK NEAR RUTLAND	--	119	2851270821113	5	LF
10-342	02312772	LESLIE HEIFNER CANAL NEAR FLORAL CITY	--	017	2845200821350	80	MS PM
10-343	02312786	THE ORANGE STATE CANAL NEAR FLORAL CITY	--	017	2844480821549	78	MS PM
10-344	**02312975**	**TSALA APOPKA OUTFALL CAN AT S-353 NEAR HERNANDO**	**--**	**017**	**2857190822013**	DV	**GS**
10-345	02312976	TSALA APOPKA OUT CAN BL S-353 NEAR HERNANDO	--	017	2857190822013	2	MS
10-346	**02313000**	**WITHLACOOCHEE RIVER NEAR HOLDER**	**1825**	**083**	**2859190822059**	DV	**GS**
10-347	**02313100**	**RAINBOW SPRINGS NEAR DUNNELLON**	**--**	**083**	**2906080822616**	DV	**GS**
10-348	02313200	WITHLACOOCHEE RIVER AT DUNNELLON	1960	083	2902450822753	1	MS
10-349	02313215	TURNER CREEK NEAR DUNNELLON	--	083	2903460823118	5	LF
10-350	02313220	BELL BRANCH NEAR DUNNELLON	15.9	083	2903220823202	5	LF
10-351	**02313230**	**WITHLACOOCHEE R AT INGLIS DAM NEAR DUNNELLON**	**2020**	**075**	**2900350823701**	DV	**GS**
10-352	**02313237**	**CROSS-FLA. BARGE CANAL AT INGLIS LOCK NEAR INGLIS**	**--**	**075**	**2901300823700**	DV	**GS**
10-353	**02313250**	**WITHLACOOCHEE R BYPASS CHANNEL NEAR INGLIS**	**--**	**075**	**2901150823817**	DV	**GS**
10-354	**02313260**	**WITHLACOOCHEE R TRIBUTARY NEAR INGLIS**	**5.1**	**075**	**2901340823831**	5	**LF**
10-355	282528082090100	WITHLACOOCHEE R AB DOBES HOLE	--	101	2825280820901	5	PM
10-356	282555082100900	DOBES HOLE INFLOW NEAR LACOOCHEE	--	101	2825550821009	1	MS
10-357	283109082123500	WITHLACOOCHEE RIVER AT RITAL	--	053	2831090821235	4	PM
10-358	283839082152700	WITHLACOOCHEE R AT NOBLETON	900	053	2838390821527	15	PM
10-359	284004082005900	JUMPER CREEK CANAL NEAR CENTER HILL	--	119	2840040820059	1	MS
10-360	285106082132000	WITHLACOOCHEE RIVER AT RUTLAND	--	017	2851060821320	6	MS PM
10-361	285351082141100	PRAIRIE DRAIN NEAR RUTLAND	--	119	2853510821411	1	MS
10-362	285443082164900	WITHLACOOCHEE R. AT TURNER	--	017	2854430821649	1	MS
10-363	285500082165200	GUM SLOUGH NEAR RUTLAND	--	119	2855000821652	1	MS
10-364	290233082272700	WITHLACOOCHEE RI AB BLUE RUN NEAR DUNNELLON	--	083	2902330822727	14	PM

Table 6. Streamflow sites in subregion 11 (Suwannee and Aucilla Rivers) where low-flow information is available

[ID, identification; mi^2, square mile; --, not determined]

Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.

County code: See table 1.

Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.

Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.

Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 15.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110101 (WACCASASSA RIVER BASIN)							
11-1	02313400	WACCASASSA RIVER NEAR BRONSON	220	075	2931320824258	22	CG, MS
11-2	**02313448**	**LITTLE WACCASASSA RIVER NEAR BRONSON**	**18.0**	**075**	**2928340824113**	80	**CG, PM, LF**
11-3	02313500	WACCASASSA RIVER NEAR OTTER CREEK	300	075	2921150824406	27	GS
11-4	**02313522**	**MAGEE BRANCH NEAR BRONSON**	**43.3**	**075**	**2921040823817**	6	**LF**
11-5	02313614	WEKIVA RIVER NEAR GULF HAMMOCK	30.1	075	2916410824115	5	LF
11-6	**02313700**	**WACCASASSA RIVER NEAR GULF HAMMOCK**	**480**	**075**	**2912140824609**	DV	**GS**
11-7	02313617	WEKIVA RIVER AT GULF HAMMOCK	--	075	2915400824239	2	MS
11-8	02314000	OTTER CREEK AT OTTER CREEK	--	075	291908024703	--	GS
11-9	**02314098**	**COW CREEK NEAR GULF HAMMOCK**	**19.5**	**075**	**2912370824150**	8	**MS,LF**
11-10	**02314134**	**SAND SLOUGH NEAR LEBANON STATION**	**32.3**	**075**	**2911170824101**	6	**MS,LF**
11-11	**02314170**	**TENMILE CREEK NEAR DUNNELLON**	**3.7**	**075**	**2906270823327**	5	**LF**
11-12	**02314200**	**TENMILE CREEK AT LEBANON STATION**	**26.0**	**075**	**2909390823821**	DV	**GS**
11-13	**02314205**	**HORSE HOLE CREEK NEAR LEBANON STATION**	**8.10**	**075**	**2908010823814**	100	**PM**
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110102 (COASTAL AREA BETWEEN SUWANNEE AND AUCILLA RIVERS)							
11-14	02323870	STEINHATCHEE RIVER NEAR MAYO	--	067	2950320831830	3	MS
11-15	02323940	KETTLE CREEK NEAR MAYO	--	067	2950200831854	4	MS
11-16	**02324000**	**STEINHATCHEE RIVER NEAR CROSS CITY**	**350**	**123**	**02947110831918**	DV	**GS**
11-17	02324005	STEINHATEHEE RIVER NEAR HINES	380	029	2946270831927	1	MS
11-18	02324397	FENHOLLOWAY RIVER NEAR SMITH	--	123	3006170832704	1	MS
11-19	**02324400**	**FENHOLLOWAY RIVER NEAR FOLEY**	**60.0**	**123**	**3005530832819**	DV	**GS**
11-20	02324407	FENHOLLOWAY RIVER NEAR FENHOLLOWAY	--	123	3005360832916	2	MS
11-21	02324467	FENHOLLOWAY RIVER AT FENHOLLOWAY	--	123	3005040832930	1	MS
11-22	02324474	FENHOLLOWAY RIVER AT COUNTY ROAD AT FENHOLLWAY	--	123	3004350832947	11	PM
11-23	02324493	FENHOLLOWAY RIVER AT CONTROL AT FOLEY	--	123	3003550833119	1	MS
11-24	**02324500**	**FENHOLLOWAY RIVER AT FOLEY**	**120**	**123**	**3003530833201**	DV	**GS**
11-25	02324710	FENHOLLOWAY RIVER AT STATE HIGHWAY 361 NEAR PERRY	120	123	3003320833520	3	MS
11-26	02324713	FENHOLLOWAY RIVER AT COUNTRY CLUB ROAD NEAR PERRY	130	123	3003040833635	4	MS
11-27	02324815	FENHOLLOWAY RIVER TRIBUTARY NEAR FOLEY	--	123	3002330833257	1	MS
11-28	02324835	TRIBUTARY TO FENHOLLOWAY RIVER TRIBUTARY NEAR FOLEY	--	123	3002140833242	1	MS
11-29	02324929	FENHOLLOWAY RIVER ABOVE WALDO SPRINGS NEAR PERRY	130	123	3002580833748	3	
11-30	02324988	FENHOLLOWAY RIVER AT HAMPTON SPRINGS	160	123	3004270833918	4	MS
11-31	**02325000**	**FENHOLLOWAY RIVER NEAR PERRY**	**160**	**123**	**3004160833945**	20	**CG, GS**
11-32	**02325500**	**SPRING CREEK NEAR PERRY**	**90.0**	**123**	**3004480833947**	43	**PM**
11-33	**02325950**	**ECONFINA RIVER NEAR ERIDU**	**158**	**123**	**3015030834204**	3	**MS**
11-34	**02326000**	**ECONFINA RIVER NEAR PERRY**	**198**	**123**	**3010140834926**	DV	**GS**
11-35	300602083391600	SPRING CREEK ABOVE ROCKY CREEK NEAR HAMPTON SPRINGS	--	123	3006020833916	2	MS
11-36	300604083191800	ROCKY CREEK NEAR HAMPTON SPRINGS	--	123	3006040833918	2	MS
11-37	300630083374200	SPRING CREEK ABOVE STATE ROAD 359B NEAR PERRY	--	123	3006300833742	3	MS
11-38	300630083374600	SPRING CREEK BELOW STATE ROAD 359B NEAR PERRY	--	123	3006300833746	2	MS
11-39	300631083374500	WOODS CREEK NEAR PERRY	--	123	3006310833745	2	MS
11-40	300650083344700	SPRING CREEK AT PERRY	--	123	3006500833447	1	MS

Table 6. Streamflow sites in subregion 11 (Suwannee and Aucilla Rivers) where low-flow information is available--Continued

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County code: See table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 15.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110103 (AUCILLA RIVER BASIN)							
11-41	02326245	GUM CREEK NEAR GREENVILLE	--	079	3033160833812	1	MS
11-42	**02326250**	**AUCILLA RIVER NEAR AUCILLA**	**345**	**065**	**3029310834353**	6	**CG, MS**
11-43	02326261	LITTLE AUCILLA RIVER NEAR CHERRY LAKE	13.9	079	3037360832944	7	GS, MS
11-44	02326300	LITTLE AUCILLA RIVER NEAR GREENVILLE	90.7	079	3031100833520	5	CG, MS
11-45	**02326389**	**WOLF CREEK AT STATE ROAD 158 NEAR AUCILLA**	**37.4**	**065**	**3029290834712**	3	**MS**
11-46	**02326391**	**WOLF CREEK NEAR AUCILLA**	**42.5**	**065**	**3028000834542**	2	**MS**
11-47	**02326494**	**BEASLEY CREEK NEAR LAMONT**	**53.3**	**065**	**3033330834841**	4	**MS**
11-48	**02326500**	**AUCILLA RIVER AT LAMONT**	**747**	**079**	**3022110834825**	DV	**GS**
11-49	02326508	AUCILLA RIVER NEAR LAMONT	780	065	3016230835125	4	MS
11-50	**02326512**	**AUCILLA RIVER NEAR SCANLON**	**805**	**123**	**3013520835508**	DV	**GS**
11-51	02326526	WACISSA RIVER NEAR WACISSA	--	065	3018040835847	28	PM
11-52	02326529	WELAUNEE CREEK NEAR CAPPS	98.9	065	3020250835450	4	MS
11-53	302031083552601	UNNAMED TRIBUTARY NEAR WACISSA	2.56	065	3020310835526	2	MS
11-54	303238083504201	WOLF CREEK TRIBUTARY NEAR MONTICELLO	--	065	3032380835042	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110201 (UPPER SUWANNEE RIVER BASIN)							
11-55	**02314986**	**ROCKY CREEK NEAR BELMONT**	**50.0**	**047**	**3032400824402**	19	**PM, GS**
11-56	**02315000**	**SUWANNEE RIVER NEAR BENTON**	**2,090**	**047**	**3030300824150**	DV	**GS**
11-57	02315005	HUNTER CREEK NEAR BELMONT	--	047	3029080824244	94	PM, GS
11-58	02315090	ROARING CREEK NEAR BELMONT	17.5	047	3025500824000	24	MS, PM
11-59	**02315200**	**DEEP CREEK NEAR SUWANNEE VALLEY**	**88.6**	**023**	**3021550823713**	17	**GS**
11-60	**02315392**	**ROBINSON CREEK NEAR SUWANNEE VALLEY**	**27.4**	**023**	**3018560823841**	30	**GS**
11-61	02315470	FALLING CREEK NEAR WINFIELD	52.9	023	3015390824006	20	PM
11-62	**02315500**	**SUWANNEE RIVER AT WHITE SPRINGS**	**2,430**	**023**	**3019320824418**	DV	**GS**
11-63	02315515	SWIFT CREEK NEAR GENOA	51.6	047	3025200824802	3	MS
11-64	02315517	OCCIDENTAL MINE DRAINAGEDITCH NEAR GENOA	--	047	3025050824724	4	MS
11-65	02315518	OCCIDENTAL MINE DRAINAGE DITCH AT SH 137 NEAR GENOA	--	047	3025050824725	4	MS
11-66	02315520	SWIFT CREEK AT FACIL	--	047	3022140824800	67	PM, GS
11-67	**02315532**	**ROCKY CREEK NEAR HOUSTON**	**25.3**	**121**	**3018560825042**	18	**PM**
11-68	**02315542**	**CAMP BRANCH NEAR GENOA**	**6.1**	**047**	**3024250825154**	16	**PM**
11-69	**02315550**	**SUWANNEE RIVER AT SUWANNEE SPRINGS**	**2,630**	**121**	**3023340825600**	DV	**GS**
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110201 (UPPER SUWANNEE RIVER BASIN)							
11-70	02315602	SUWANNEE RIVER NEAR SUWANNEE	--	121	3023430825610	1	MS
11-71	02315607	SUWANNEE RIVER NEAR MARION	2,650	047	3024570825738	1	MS
11-72	301915082425900	FALLING CREEK AT MOUTH NEAR WHITE SPRINGS	--	023	3019150824259	2	MS
11-73	**301929082464400**	**SUWANNEE RIVER NEAR WHITE SPRINGS**	**--**	**023**	**3019280824644**	4	**MS**
11-74	301948082422900	FOUR MILE CREEK NEAR WHITE SPRINGS	--	047	3019480824229	2	MS
11-75	301950082454500	SUWANNEE RIVER BELOW WHITE SULPHUR SPRINGS AT WHITE SPRINGS	--	023	3019500824545	2	MS
11-76	301956082421300	SUWANNEE RIVER 2 MILES ABOVE FOUR MILE CREEK NEAR WHITE SPRINGS	--	023	3019560824213	5	MS
11-77	301956082473700	SUWANNEE RIVER ABOVE SAL MARIE BRANCH NEAR WHITE SPRINGS	--	047	3019560824737	2	MS
11-78	302000082432200	SUWANNEE RIVER AT LITTLE SHOALS NEAR WHITE SPRINGS	--	023	3020000824322	3	MS
11-79	302012082410900	ROBINSON CREEK NEAR WHITE SPRINGS	--	023	3020120824109	2	MS

Table 6. Streamflow sites in subregion 11 (Suwannee and Aucilla Rivers) where low-flow information is available--Continued

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Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 15.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110201 (UPPER SUWANNEE RIVER BASIN)--CONTINUED							
11-80	302016082410300	SUWANNEE RIVER 1 MILE BELOW BIG SHOALS NEAR WHITE SPRINGS	--	047	3020160824103	3	MS
11-81	**302025082484400**	**SUWANNEE RIVER BELOW BLUE SINK NEAR WHITE SPRINGS**	**--**	**121**	**3020250824844**	4	**MS**
11-82	302036082500500	ROCKY CREEK NEAR GENOA FLORIDA	--	121	3020360825005	1	MS
11-83	302038082500300	SUWANNEE RIVER BELOW INTERSTATE 75 NEAR GENOA	--	047	3020380825003	2	MS
11-84	302045082494700	SUWANNEE RIVER BELOW SWIFT CREEK NEAR FACIL	--	121	3020450824947	1	
11-85	302103082490300	SWIFT CREEK AT RIVER ROAD NEAR GENOA	--	047	3021030824903	2	MS
11-86	302103082510800	SUWANNEE RIVER BELOW ROCKY CREEK NEAR SUWANNEE SPRINGS	--	047	3021030825108	2	MS
11-87	302107082510800	SUWANNEE RIVER BELOW INTERSTATE 75 NEAR FACIL	--	121	3021070825108	1	MS
11-88	302126082405700	SUWANNEE RIVER ABOVE BIG SHOALS NEAR WHITE SPRINGS	--	047	3021260824057	2	MS
11-89	302130082410000	SUWANNEE RIVER TRIBUTARY 0.2 MILE BELOW LONG BRIDGE NEAR WHITE SPRINGS	--	047	3021300824100	1	MS
11-90	302202082531000	SUWANNEE RIVER 1 MILE ABOVE CAMP BRANCH NEAR GENOA	--	047	3022020825310	3	MS
11-91	302205082531300	CAMP BRANCH NEAR GENOA	--	047	3022050825313	1	MS
11-92	302209082532100	SUWANNEE RIVER NEAR SUWANNEE SPRINGS	--	121	3022090825321	1	MS
11-93	302215082405000	SUWANNEE RIVER BELOW UNNAMED TRIBU-TARY NEAR BENTON	--	047	3022150824050	3	MS
11-94	302216082394100	BROWNS BRANCH AT BROWNS LANDING NEAR WHITE SPRINGS	--	023	3022130823943	1	MS
11-95	302227082514800	JERRY BRANCH AT INTERSTATE 75 NEAR GENOA	--	047	3022270825148	1	MS
11-96	302233082381100	DEEP CREEK AT OLD RIVER ROAD NEAR WHITE SPRINGS	3.00	023	3022330823811	1	MS
11-97	302248082542800	SUWANEE RIVER SPRING LEFT BANK NEAR SUWANNEE SPRING	--	121	3022480825428	1	MS
11-98	302312082532400	SUWANNEE RIVER TRIBUTARY 2.5 MILES DOWNSTREAM FROM CAMP BRANCH NEAR SUWANNEE SPRINGS	--	047	3023120825324	1	MS
11-99	302312082534800	SUWANNEE RIVER 0.4 MILE DOWNSTREAM FROM UNNAMED TRIBUTARY NEAR SUWANNEE SPRINGS	--	121	3023120825348	2	MS
11-100	302416082384800	SUWANNEE RIVER 0.3 MILE BELOW LIT-TLECREEK NEAR BENTON	--	047	3024160823848	3	MS
11-101	302430082384500	LITTLE CREEK NEAR BENTON	--	023	3024300823845	2	MS
11-102	302430082472500	SWIFT CREEK AT CONNECTOR ROAD NEAR GENOA	--	047	3024300824725	1	MS
11-103	302518083004900	GUINEA CREEK NEAR ADAMS	--	121	3025180830049	1	MS
11-104	302518083083300	SUWANNEE RIVER AT STATE PARK NEAR ELLAVILLE	--	121	3025180830833	3	MS

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Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110201 (UPPER SUWANNEE RIVER BASIN)--CONTINUED							
11-105	**302547083043700**	**SUWANNEE RIVER NEAR ELLAVILLE**	--	**121**	**3025470830437**	4	**MS**
11-106	302548082480300	SWIFT CREEK NEAR GENOA	--	047	3025480824803	1	MS
11-107	302626083050000	SUWANNEE RIVER ABOVE ALAPAHA RISE NEAR JASPER	--	121	3026260830500	1	MS
11-108	302630082401600	ROARING CREEK AT CONE BRIDGE ROAD NEAR BENTON	--	047	3026300824016	1	MS
11-109	302812082444000	HUNTER CREEK AT HUNTER CREEK ROAD NEAR BELMONT	--	047	3028430824403	1	MS
11-110	302822082413800	SUWANNEE RIVER TRIBUTARY NEAR BENTON	--	047	3028220824138	1	MS
11-111	302843082420000	SUWANNEE RIVER ABOVE UNNAMED TRIBUTARY NEAR BENTON	--	023	3028430824200	1	MS
11-112	304642082401700	SUWANNEE RIVER AT CONE BRIDGE LANDING NEAR BENTON	--	047	3026420824017	3	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110202 (ALAPAHA RIVER BASIN)							
11-113	**02317620**	**ALAPAHA RIVER NEAR JENNINGS**	**1,680**	**047**	**3035530830424**	21	**MS, GS**
11-114	**02317630**	**ALAPAHA RIVER NEAR JASPER**	**1,720**	**047**	**3031420830217**	29	**CG, MS**
11-115	02317637	LITTLE ALAPAHA RIVER NEAR AVOCA	--	047	3033550825914	2	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110203 (WITHLACOOCHEE RIVER BASIN)							
11-116	**02319000**	**WITHLACOOCHEE RIVER NEAR PINETTA**	**2,120**	**079**	**3035430831535**	DV	**GS**
11-117	02319300	WITHLACOOCHEE RIVER NEAR MADISON	2,240	047	3028560831435	1	CG, MS
11-118	02319387	NORTON CREEK AT LEE	55	079	3024520831802	1	MS
11-119	02319390	NORTON CREEK NEAR LEE	75	079	3024510831650	1	MS
11-120	302436083104800	WITHLACOOCHEE RIVER NEAR ELLAVILLE	--	047	3024360831048	1	MS
11-121	302844083143900	WITHLACOOCHEE RIVER BELOW BLUE SPRINGS	2,240	047	3028440831439	1	MS
11-122	303802083155701	JUMPING GULLEY CREEK NEAR BEKKVILLE, GA.	--	079	3038020831557	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110205 (SUWANNEE RIVER BELOW WITHLACOOCHEE RIVER)							
11-123	**02319500**	**SUWANNEE RIVER AT ELLAVILLE**	**6,970**	**121**	**3023040831019**	DV	**GS**
11-124	**02319800**	**SUWANNEE RIVER AT DOWLING PARK**	**7,190**	**067**	**3014410831459**	4	**CG, MS**
11-125	**02320000**	**SUWANNEE RIVER AT LURAVILLE**	**7,330**	**121**	**3005590831018**	DV	**GS, MS**
11-126	**02320500**	**SUWANNEE RIVER AT BRANFORD**	**7,880**	**121**	**2957200825540**	DV	**GS**
11-127	**02323000**	**SUWANNEE RIVER NEAR BELL**	**9,390**	**041**	**2947280825528**	DV	**GS**
11-128	**02323500**	**SUWANNEE RIVER NEAR WILCOX**	**9,640**	**075**	**2935220825612**	DV	**GS**
11-129	02323585	LONG POND OUTLET NEAR CHIEFLAND	53.9	075	2927500825321	2	MS
11-130	300448083410000	SUWANNEE RIVER ABOVE ROYAL SPRING NEAR ALTON	--	067	3004480830441	1	MS
11-131	300954083135300	SUWANNEE RIVER NEAR DELL	--	067	3009540831353	1	MS
11-132	301936082124000	SUWANNEE RIVER NEAR FALMOUTH	7,080	079	3019360831240	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110206 (SANTA FE RIVER BASIN)							
11-133	02320692	SANTA FE RIVER NEAR HAMPTON	75.1	001	2950210820949	1	MS
11-134	**02320700**	**SANTA FE RIVER NEAR GRAHAM**	**94.9**	**001**	**2950460821311**	DV	**GS**
11-135	**02320732**	**ALLIGATOR CREEK AT STARKE**	**19.4**	**007**	**2956100820643**	5	**MS**
11-136	**02320800**	**SAMPSON RIVER AT SAMPSON**	**59.7**	**007**	**2955070821239**	28	**MS, PM**
11-137	02320815	SAMPSON RIVER AT GRAHAM	74.3	007	2951360821347	1	MS
11-138	02320820	SANTA FE RIVER NEAR MONTEOCHA	178	001	2950490821551	1	MS
11-139	02320827	MONTEOCHA CREEK AT MONTEOCHA	7.04	001	2947470821720	2	MS
11-140	02320849	SANTA FE RIVER AT BROOKER	245	007	2952430822012	1	MS
11-141	02320870	ROCKY CREEK NEAR LA CROSSE	22.6	001	2950230822236	2	MS
11-142	02320873	ROCKY CREEK TRIBUTARY NEAR LACROSSE	2.55	001	2950230822248	1	MS

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Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 15.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110206 (SANTA FE RIVER BASIN)--CONTINUED							
11-143	02320898	ALLIGATOR CREEK NEAR LAWTEY	28.0	007	3003300820820	1	MS
11-144	02320950	WATER OAK CREEK NEAR STARKE	20.7	007	3001400820920	7	MS
11-145	02320960	WATER OAK CREEK NEAR LAWTEY	39.0	007	3001500821125	4	MS
11-146	**02321000**	**NEW RIVER NEAR LAKE BUTLER**	**193**	**125**	**2959530821627**	DV	**GS**
11-147	**02321200**	**RICHARD CREEK NEAR LAKE BUTLER**	**13.9**	**125**	**3001100821859**	7	**MS**
11-148	02321446	FIVEMILE CREEK NEAR DUKES	11.8	125	2958050822249	1	MS
11-149	**02321500**	**SANTA FE RIVER AT WORTHING TON SPRINGS**	**575**	**001**	**2955180822535**	DV	**GS**
11-150	**02321600**	**OLUSTEE CREEK NEAR LULU**	**49.1**	**023**	**3005420822825**	22	**CG, MS**
11-151	**02321700**	**SWIFT CREEK NEAR LAKE BUTLER**	**46.0**	**125**	**3003280822510**	21	**GS, CG, MS**
11-152	**02321800**	**OLUSTEE CREEK NEAR PROVIDENCE**	**163**	**125**	**3000140823420**	15	**GS, CG, MS**
11-153	02321890	HAMMOCK BRANCH NEAR FORT WHITE	--	023	2956070823646	1	MS
11-154	**02321898**	**SANTA FE RIVER AT O'LENO STATE PARK**	**820**	**001**	**2954510823448**	49	**PM**
11-155	02321961	SANTA FE RIVER NEAR TRAXLER	851	001	2952110823521	2	MS
11-156	02321991	SANTA FE RIVER DIVERSION TO SUCK HOLE NEAR HIGH SPRINGS	--	023	2950550823719	3	MS
11-157	02321998	SANTA FE RIVER 0.1 MILE ABOVE US HIGH WAY 27 NEAR HIGH SPRINGS	--	001	2950400823750	1	
11-158	**02322000**	**SANTA FE RIVER NEAR HIGH SPRINGS**	**950**	**023**	**2950330823752**	DV	**GS**
11-159	02322016	BLUES CREEK NEAR GAINSVILLE	5.04	001	2943410822554	18	GS
11-160	02322050	SHILOH RUN NEAR ALACHUA	.32	001	2949060822821	4	GS
11-161	02322070	SANTA FE RIVER NEAR HIGH SPRINGS	971	001	2950000823800	1	MS
11-162	02322240	SANTA FE RIVER BELOW LILLY SPRING NEAR FORT WHITE	977	023	2949500823950	1	MS
11-163	**02322500**	**SANTA FE RIVER NEAR FORT WHITE**	**1,020**	**041**	**2950550824255**	DV	**GS**
11-164	02322540	SANTA FE RIVER AT STATE ROAD 47 NEAR FORT WHITE	1,030	023	2951540824425	2	MS
11-165	**02322590**	**COW CREEK NEAR FORT WHITE**	**89**	**041**	**2951210824524**	18	**PM**
11-166	**02322660**	**ROSE CREEK NEAR COLUMBIA**	**26.2**	**023**	**3004230824038**	13	**PM**
11-167	02322689	ICHETUCKNEE RIVER NEAR LAKE CITY JUNC-TION	--	023	2958400824530	391	PM
11-168	**02322800**	**SANTA FE RIVER NEAR HILDRETH**	**1,370**	**041**	**2954410825138**	3	**MS**
11-169	02322820	SANTA FE RIVER NEAR BRANFORD	1,370	121	2954000825150	1	MS
11-170	294754082170200	MONTEOCHA CREEK NEAR MONTEOCHA	--	001	2947540821702	1	MS
11-171	294759082264500	STREAM AT COUNTY ROAD EAST OF ALACHUA	--	001	2947590822645	1	MS
11-172	294802082221800	ROCKY CREEK 3 MILES SOUTHWEST OF SUN-SHINE LAKE	--	001	2948020822218	2	MS
11-173	294911082230500	TRIBUTARY TO ROCKY CREEK NEAR LA CROSSE	--	001	2949110822305	1	MS
11-174	294923082181000	LITTLE MONTEOCHA CREEK NEAR MON-TEOCHA	--	001	2949230821810	1	MS
11-175	294930082165200	TRIBUTARY TO MONTEOCHA CREEK NEAR MONTEOCHA	--	001	2949300821652	2	MS
11-176	294947082200300	RHUDA BRIDGE AT COUNTY ROAD SOUTH OF SUNSHINE LAKE	--	001	2949470822003	1	MS
11-177	295040082300600	MILL CREEK NEAR HIGH SPRINGS	--	001	2950400823006	1	MS
11-178	295059082052700	DOUBLE RUN CREEK NEAR THERESA	--	007	2950590820527	1	MS
11-179	295110082363100	SANTA FE RIVER AT US HIGHWAY 441NEAR HIGH SPRINGS	--	001	2951100823631	1	MS
11-180	295143082170400	TRIBUTARY TO SANTA FE RIVER NEAR BROOKER	--	007	2951430821704	1	MS
11-181	295152082232500	TRIBUTARY TO ROCKY CREEK NEAR LA CROSSE	--	001	2951520822325	1	MS
11-182	295212082463400	TRIBUTARY TO SANTA FE RIVER NEAR FORT WHITE	--	041	2952120824634	1	MS

Table 6. Streamflow sites in subregion 11 (Suwannee and Aucilla Rivers) where low-flow information is available--Continued

[ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 15.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
11-183	295219082244200	TRIBUTARY TO SANTA FE RIVER NEAR LACROSE	--	001	2952190822442	1	MS
11-184	295226082184000	TRIBUTARY TO SANTA FE RIVER NEAR BROOKER	--	007	295226081840	1	MS
11-185	295246082251400	TRIBUTARY TO SANTA FE RIVER NEAR SANTA FE	--	001	2952460822514	1	MS
11-186	295248082280800	TRIBUTARY TO SANTA FE RIVER NEAR SANTA FE	--	001	2952480822808	1	MS
11-187	295252082230600	SANTA FE RIVER NEAR LACROSSE	--	001	2952520822306	1	MS
11-188	295352082310700	PARENERS BRANCH NEAR BLAND	--	001	2953520823107	2	MS
11-189	295408082290800	TRIBUTARY TO SANTA FE RIVER NEAR BLAND	--	001	2954080822908	1	MS
11-190	295418082252300	TRIBUTARY TO SANTA FE RIVER NEAR SANTA FE	--	001	2954180822523	1	MS
11-191	295419082331200	PARENERS BRANCH NEAR BLAND	--	001	2954190823312	2	MS
11-192	295434082295900	TRIBUTARY TO SANTA FE RIVER NEAR BLAND	--	001	2954340822959	1	MS
11-193	295535082244000	NEW RIVER NEAR WORTHINGTON SPRINGS	--	125	2955350822440	2	MS
11-194	295609082071700	ALLIGATOR CREEK AT STARKE	--	007	2956090820717	2	MS
11-195	295618082034700	ALLIGATOR CREEK NEAR STARKE	--	007	2956180820347	2	MS
11-196	295619082101200	LAKE CROSBY OUTLET CANAL NEAR STARKE	--	007	2956190821012	1	MS
11-197	295631082193200	UNNAMED CREEK NEAR BROOKER	--	007	2956310821932	1	MS
11-198	295633082061500	ALLIGATOR CREEK AT STARKE	--	007	2956330820615	1	MS
11-199	295633082302500	SANTA FE RIVER NEAR BLAND	--	001	2956330823025	1	MS
11-200	295635082112100	TRIBUTARY TO LAKE SAMPSON NEAR STARKE	--	007	2956350821121	1	MS
11-201	295645082272100	TRIBUTARY TO SANTA FE RIVER NEAR WORTHINGTON SPRINGS	--	125	2956450822721	1	MS
11-202	295652082302700	TRIBUTARY TO SANTA FE RIVER NEAR WORTHINGTON SPRINGS	--	125	2956520823027	1	MS
11-203	295654082203200	TRIBUTARY TO NEW RIVER NEAR BROOKER	--	007	2956540822032	1	MS
11-204	295700082204300	NEW RIVER NEAR BROOKER	--	125	2957000822043	1	MS
11-205	295701082315000	OLUSTEE CREEK NEAR PROVIDENCE	--	023	2957010823150	2	MS
11-206	295703082172500	TRIBUTARY TO NEW RIVER NEAR NEW RIVER	--	007	2957030821725	1	MS
11-207	295723082223400	FIVEMILE CREEK IN SECTION 23 NEAR DUKES	--	125	2957230822234		
11-208	295800082293100	TRIBUTARY TO SANTA FE RIVER NEAR WORTHINGTON SPRINGS	--	125	2958000822931	2	MS
11-209	295822082334500	OLUSTEE CREEK NEAR PROVIDENCE	--	023	2958220823345	1	MS
11-210	295840082331200	TRIBUTARY TO OLUSTEE CREEK NEAR PROVIDENCE	--	125	2958400823312	1	MS
11-211	295907082202200	RICHARD CREEK ON DIRT ROAD NEAR LAKE BUTLER	--	125	2959070822022	1	MS
11-212	300012082152700	MCCENNY BRANCH AT STATE ROAD 235 NEAR LAKE BUTLER	--	007	3000120821527	2	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03110206 (SANTA FE RIVER BASIN)--CONTINUED							
11-213	300045082111400	GUM CREEK NEAR LAWTEY	--	007	3000450821114	1	MS
11-214	300117082145500	TRIBUTARY TO NEW RIVER AT STATE HIGHWAY 235 NEAR RAIFORD	--	007	3001170821455	1	MS
11-215	300133082201300	LAKE BUTLER OUTLET AT LAKE BUTLER	--	125	3001330822013	1	MS
11-216	300204082313100	SWIFT CREEK NEAR PROVIDENCE	--	125	3002040823131	1	MS
11-217	300328082051800	UNNAMED CREEK AT STATE HIGHWAY 125	--	007	3003280820518	1	MS
11-218	300328082315800	OLUSTEE CREEK AT STATE HIGHWAY 240 NEAR PROVIDENCE	--	125	3003280823158	2	MS
11-219	300423082050000	TRIBUTARY TO OLUSTEE CREEK NEAR LAWTEY	--	007	300423080500	1	MS
11-220	300456082213900	SWIFT CREEK NEAR LAKE BUTLER	--	125	3004560822139	1	MS
11-221	300502082301900	OLUSTEE CREEK AT STATE HIGHWAY 241 NEAR LULU	--	125	3005020823019	1	MS
11-222	301219082250700	OLUSTEE CREEK AT OLUSTEE	--	003	3012190822507	2	MS

Table 7. Streamflow sites in subregion 12 (Ochlockonee River) where low-flow information is available

[ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 15.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County Code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03120001 (ST. MARKS AND WAKULLA RIVERS)							
12-1	**02326576**	WARD CREEK AT ALMA	--	**065**	**3036170835336**	4	**MS**
12-2	**02326592**	DRY CREEK NEAR MICCOSUKEE	**18.0**	**073**	**3038160840243**	4	**MS**
12-3	02326598	CANEY CREEK NEAR MONTICELLO	2.54	065	3030520835624	9	GS
12-4	**02326700**	LLOYD CREEK AT LLOYD	**31.2**	**065**	**3028410840031**	37	**PM**
12-5	02326800	COPELAND SINK DRAIN AT LLOYD	285	065	3028400840051	2	MS
12-6	02326813	BLACK CREEK NEAR CAPITOLA	--	073	3030030840451	3	MS
12-7	**02326900**	ST. MARKS RIVER NEAR NEWPORT	**535**	**129**	**3016000840900**	DV	**GS**
12-8	**02327033**	LOST CREEK AT ARRAN	**70.4**	**129**	**3011170842430**	7	**MS**
12-9	02327035	MILL CREEK NEAR ARRAN	--	129	3010000842410	2	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03120003 (OCHLOCKONEE RIVER BASIN)							
12-10	02327050	SOPCHOPPY RIVER NEAR ARRAN	51.1	129	3013500843220	8	CG,MS
12-11	02327100	SOPCHOPPY RIVER NEAR SOPCHOPPY	102	129	3007450842940	DV	CG, GS
12-12	02327110	SOPCHOPPY NEAR ASHMORE	--	129	3005310843109	1	MS
12-13	02328522	OCHLOCKONEE RIVER NEAR CONCORD	1,000	039	3040080841819	4	MS
12-14	02328525	SHAW CREEK NEAR CONCORD	11.4	039	3039540841907	1	MS
12-15	02328995	LEWIS CREEK NEAR HAVANA	2.65	039	3035370842348	3	MS
12-16	**02329000**	OCHLOCKONEE RIVER NEAR HAVANA	**1,140**	**073**	**3033140842303**	DV	**GS**
12-17	02329104	OX BOTTOM CREEK NEAR TALLAHASSEE	2.36	073	3033020841815	57	GS
12-18	02329161	FORDS ARM TRIBUTARY NEAR TALLAHASSEE	1.66	073	3029590841639	50	GS
12-19	02329252	OCHLOCKONEE RIVER AT OCHLOCKONEE	1,220	073	3028250842425	3	MS
12-20	02329256	OCHLOCKONEE RIVER TRIBUTARY AT OCHLOCKONEE	.59	073	3027480842413	1	MS
12-21	**02329352**	ATTAPULGUS CREEK AT JAMIESON	**95.6**	**039**	**3039460842748**	18	**PM, CG**
12-22	02329481	WILLACOOCHEE CREEK TRIBUTARY NEAR QUINCY	1.26	039	3041180843200	1	MS
12-23	**02329487**	WILLACOOCHEEE CREEK NEAR DOGTOWN	**36.5**	**039**	**3040570843308**	3	**MS**
12-24	**02329490**	WILLACOOCHEE CREEK NEAR QUINCY	**64.9**	**039**	**3038130843002**	62	**PM**
12-25	**02329500**	LITTLE RRIVER NEAR QUINCY	**237**	**039**	**3035140842948**	DV	**GS**
12-26	**02329516**	QUINCY CREEK NEAR QUINCY	**6.16**	**039**	**3035530843535**	12	**PM**
12-27	02329532	QUINCY CREEK TRIBUTARY NEAR QUINCY	10.1	039	3036080843520	1	MS
12-28	**02329534**	QUINCY CREEK AT STATE HIGHWAY 267 AT QUINCY	**16.8**	**039**	**3036000843450**	DV	**GS**
12-29	**02329542**	QUINCY CREEK AT QUINCY	**21.9**	**039**	**3035320843349**	53	**GS**
12-30	02329546	SOUTH PRONG TANYARD BRANCH NEAR QUINCY	2.29	039	3034080843417	1	MS
12-31	**02329548**	TANYARD BRANCH NEAR QUINCY	**4.91**	**039**	**3034420843330**	35	**PM**
12-32	**02329553**	HUBBERT BRANCH NEAR QUINCY	**4.68**	**039**	**3035390843248**	31	**PM**
12-33	**02329556**	WINKLEY BRANCH NEAR QUINCY	**1.64**	**039**	**3036030843202**	26	**PM**
12-34	**02329565**	LITTLE RIVER NEAR LITTMAN	**279**	**039**	**3033120843054**	17	**PM**
12-35	**02329582**	HURRICANE CREEK NEAR HAVANA	**8.31**	**039**	**3034570842844**	43	**PM**
12-36	**02329591**	HURRICANE CREEK NEAR QUINCY	**12.8**	**039**	**3033110843038**	10	**PM**
12-37	**02329600**	LITTLE RIVER NEAR MIDWAY	**305**	**039**	**3030440843125**	19	**CG, GS**
12-38	**02320625**	MONROE CREEK NEAR MIDWAY	**6.80**	**039**	**3030330842954**	15	**PM**
12-39	**02329646**	RICHLANDER CREEK NEAR QUINCY	**5.8**	**039**	**3031180843315**	16	**PM**
12-40	02329668	POLK CREEK NEAR BLOXHAM	3.64	073	3025490843147	3	MS
12-41	**02329700**	ROCKY COMFORT CREEK NEAR QUINCY	**9.46**	**039**	**3032440843809**	DV	**GS**
12-42	02329775	ROCKY COMFORT CREEK AT WETUMPKA	31.1	039	3029380843655	1	MS
12-43	02329777	ROCKY COMFORT CREEK NEAR WETUMPKA	34.1	039	3029050843535	6	MS
12-44	02329788	TURKEY CREEK NEAR QUINCY	4.78	039	3029100843533	4	MS
12-45	02329829	HARVEY CREEK NEAR BLOXHAM	8.11	073	3024500843305	4	MS
12-46	02329835	LAKE TALQUIN TRIBUTARY NEAR BLOXHAM	.48	073	3024180842349	3	MS
12-47	02329865	OCKLAWAHA CREEK NEAR GREENSBORO	11.1	039	3027450844420	3	MS
12-48	**02329877**	OCKLAWAHA CREEK NEAR WETUMPKA	**28.8**	**039**	**3027000843836**	58	**PM**
12-49	02329890	FREEMAN CREEK NEAR BLOXHAM	7.95	073	3024030843536	2	MS

Table 7. Streamflow sites in subregion 12 (Ochlockonee River) where low-flow information is available--Continued

[ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 15.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County Code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03120003 (OCHLOCKONEE RIVER BASIN)--CONTINUED							
12-50	02329898	HAMMOCK CREEK NEAR WETUMPKA	6.82	039	3025270843854	4	MS
12-51	**02330000**	OCHLOCKONEE RIVER NEAR BLOXHAM	**1,700**	**073**	**3022590843918**	DV	**GS**
12-52	02330028	BLACK CREEK NEAR WARD	18.2	073	3019320844137	3	MS
12-53	02330029	SWEETWATER CREEK NEAR WARD	2.59	073	3018250844201	2	MS
12-54	02330033	TELOGIA CREEK AT GRETNA	2.49	039	3037450843959	2	MS
12-55	02330035	TELOGIA CREEK AT US HWY 90 AT GRETNA	2.80	039	3037430844011	2	MS
12-56	02330040	TELOGIA CREEK NEAR GRETNA	6.42	039	3037020844102	3	MS
12-57	02330044	TELOGIA CREEK NEAR HARDAWAY	16.1	039	3036140844207	1	MS
12-58	02330045	BLUE CREEK NEAR HOSFORD	11.6	077	3021140844318	1	MS
12-59	02330047	TELOGIA CREEK AT SHEPARDS MILLPOND NEAR GREENSBORO	21.1	039	3034020844311	2	MS
12-60	02330050	TELOGIA CREEK NEAR GREENSBORO	28.1	039	3033340844336	24	CG, PM
12-61	**02330053**	TELOGIA CREEK AT STATE ROAD 65-D NEAR GREENSBORO	**30.4**	**039**	**3032370844413**	3	**MS**
12-62	02330065	JUNIPER CREEK NEAR GREENSBORO	8.5	039	3031500844416	3	MS
12-59	02330047	TELOGIA CREEK AT SHEPARDS MILLPOND NEAR GREENBORO	21.1	039	3034020844311	2	MS
12-60	02330050	TELOGIA CREEK NEAR GREENSBORO	28.1	039	3033340844336	24	CG, PM
12-61	02330053	TELOGIA CREEK AT STATE ROAD 65-D NEAR GREENSBO			3032370844413	3	MS
12-62	02330065	JUNIPER CREEK NEAR GREENSBORO	8.5	039	3031500844416	3	MS
12-63	02330070	YON CREEK NEAR GREENSBORO	11.6	039	3032020844617	1	MS
12-64	02330080	MULE CREEK NEAR GREENSBORO	13.0	077	3030400844942	2	MS
12-65	**02330100**	TELOGIA CREEK NEAR BRISTOL	**126**	**077**	**3025350845540**	DV	**GS**
12-66	02330102	MILL BRANCH NEAR BRISTOL	4.74	077	3025450845608	1	MS
12-67	**0233010**	TELOGIA CREEK AT HOSFORD	**181**	**077**	**3022250844822**	5	**MS**
12-68	**02330122**	BIG CREEK NEAR HOSFORD	**22.1**	**077**	**3023200844724**	3	**MS**
12-69	02330124	STOKES BRANCH NEAR TELOGIA	5.25	077	3020450844700	3	MS
12-70	02330129	YELLOW CREEK NEAR WARD	23.9	077	3016580844508	3	MS
12-71	02330150	OCHLOCKONEE RIVER NEAR SMITH CREEK	2,080	129	3010350844005	2	MS
12-72	02330155	TIGER CREEK NEAR SMITH CREEK	9.38	077	3009460844256	1	MS
12-73	301154084434201	INDIAN CREEK NEAR SMITH CREEK	7.93	077	3011540844342	2	MS
12-74	301231084400701	MILL CREEK NEAR SMITH CREEK	--	129	3012310844007	2	MS
12-75	302017084492000	REICHOLD BRANCH NEAR TELOGIA	--	077	3020170844920	3	MS
12-76	302301084382001	HUBBARD BRANCH NEAR BLOXHAM	--	073	3023010843820	1	MS
12-77	302318084350401	FREEMAN CREEK AT STATE HIGHWAY 267 NEAR BLOXHAM	31.2	073	3023180843504	1	MS
12-78	302657084515400	TELOGIA CREEK ON STATE ROAD 271 NEAR BRISTOL	--	077	3026570845154	1	MS
12-79	302845084373400	BEAR CREEK AT WETUMPKA	--	039	3028450843734	2	MS
12-80	302910084314500	LITTLE RIVER AB RICHLANDER CREEK NEAR WETUMPKA	--	039	3029100843145	1	MS
12-81	302957084170000	FORDS ARM TRIBUTARY TO LAKE JACKSON AT CONSTELLA	--	073	3029570841700	1	MS
12-82	303248084364900	VOTE CREEK NEAR QUINCY	--	039	3032480843649	1	MS
12-83	**303553084342700**	QUINCY CREEK AT STATE ROAD 65 NEAR QUINCY	--	039	**3035530843427**	7	PM
12-84	303753084255400	SALEM BRANCH NEAR HAVANA	--	039	3037530842554	9	PM

Table 8. Streamflow sites in subregion 13 (Apalachicola River) where low-flow information is available

[ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 16.

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County Code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03130011 (APALACHICOLA RIVER)							
13-1	02358000	APALACHICOLA RIVER AT CHATTAHOOCHEE	17,200	063	3042030845133	DV	GS
13-2	**02358500**	**NORTH MOSQUITO CREEK AT CHATTA-HOOCHE**	**57.9**	**039**	**3042080844935**	7	**GS, MS**
13-3	02358519	MOSQUITO CREEK AT CHATTAHOOCHEE	86.2	039	3041190845030	5	MS
13-4	**02358600**	**FLAT CREEK NEAR CHATTAHOOCHEE**	**24.9**	**039**	**303743084500 6**	34	**MS, CG, PM**
13-5	02358620	CROOKED CREEK NEAR GREENSBORO	18.4	039	3035300845254	2	MS
13-6	02358661	OCHEESEE CREEK NEAR ALTHA	--	013	3034310845922	2	MS
13-7	02358664	APALACHICOLA RIVER AT LANDING NEAR ROCK BLUFF	17,500	077	3033420845751	1	MS
13-8	02358673	SWEETWATER CREEK NEAR ROCK BLUFF	--	077	3031290845822	4	MS
13-9	02358683	GRAVES CREEK AT SELMAN	--	013	3031440850148	3	MS
13-10	02358684	APALACHICOLA RIVER NEAR SWEETWATER	17,500	077	3030090845930	1	MS
13-11	02358685	LITTLE SWEETWATER CREEK NEAR BRISTOL	2.45	077	3028270845849	9	GS
13-12	02358696	STAFFORD CREEK NEAR SELMAN	--	013	3029540850231	2	MS
13-13	02358700	APALACHICOLA RIVER NEAR BLOUNTSTOWN	17,600	013	302530085053	DV	GS
13-14	02358737	BIG GULLY CREEK NEAR ORANGE	--	077	3014510850018	3	MS
13-15	02358742	LITTLE GULLY CREEK NEAR ESTIFFANULGAA	--	077	3015410850047	2	MS
13-16	02358750	GREGORY MILL CREEK NEAR ORANGE	--	077	3010250850408	1	MS
13-17	02358754	APALACHICOLA RIVER ABOVE CHIPOLA CUT-OFF NEAR WEWAHITCHKA	17,800	045	3008020850839	DV	GS
13-18	**02359170**	**APALACHICOLA RIVER NEAR SUMATRA**	**19,200**	**037**	**2956570850056**	DV	**GS**
13-19	02359220	CYPRESS CREEK NEAR WHITE CITY	--	045	2956440851105	2	MS
13-20	302504085023400	SUTTON CREEK NEAR BLOUNTSTOWN	--	013	3025040850234	2	MS
13-21	302517085031000	UNNAMED TRIBUTARY TO SUTTON CREEK NEAR BLOUNTSTOWN	--	013	3025170850310	2	MS
13-22	302607085025500	SUTTON CREEK AT BLOUNTSTOWN	--	013	3026070850255	2	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03130012 (CHIPOLA RIVER BASIN)							
13-23	02358760	MARSHAL CREEK ON STATE HIGHWAY 2 NEAR CAMPBELLTON	--	063	3056110851748	3	MS
13-24	02358772	COWARTS CREEK ON STATE HIGHWAY 2 NEAR MALONE	--	063	3056500851532	3	MS
13-25	**02358789**	**CHIPOLA RIVER AT MARIANNA**	**464**	**063**	**3046220851259**	7	**MS**
13-26	02358797	SPRING CREEK NEAR MARIANNA	--	063	3045100851136	11	MS
13-27	**02358800**	**CHIPOLA RIVER AT OAKDALE**	**519**	**063**	**3043020851201**	5	**CG,PM**
13-28	02358998	HOLLIMAN BRANCH NEAR ALTHA	2.04	013	3032430850933	8	GS
13-29	02359000	CHIPOLA RIVER NEAR ALTHA	781	013	303202085095	DV	GS, PM
13-30	**02359035**	**FOURMILE CREEK AT CLARKSVILLE**	**36.0**	**013**	**3026410851059**	25	**CG,**
13-31	02359037	CHIPOLA RIVER AT CLARKSVILLE	--	013	3025510851019	2	MS
13-32	**02359059**	**JUNIPER CREEK NEAR FRINK**	**50.9**	**013**	**3021300851245**	4	**MS**
13-33	02359067	CHIPOLA RIVER AT SCOTS FERRY	--	013	3017130850842	1	MS
13-34	02359084	SWEETWATER CREEK NEAR KINARD	--	013	3014420851225	1	MS
13-35	**02359098**	**CHIPOLA CUTOFF NEAR WEWAHITCHKA**	17,800	**045**	**300745085084 5**	5	**MS**
13-36	02359103	CHIPOLA RIVER NEAR WEWAHITCHKA	1,210	045	3006020851054	3	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03130013 (COASTAL AREA BETWEEN OCHLOCKONEE AND APALACHICOLA RIVERS)							
13-37	02330200	NEW RIVER AT VILAS	23.2	077	3013080845328	3	CG, MS
13-38	**02330300**	**NEW RIVER NEAR WILMA**	**81.7**	**077**	**300740084534 5**	DV	**DV, GS**
13-39	**02330400**	**NEW RIVER NEAR SUMATRA**	**157**	**077**	**300219084503 8**	10	**MS, CG,**
13-40	02330450	WHISKEY GEORGE CREEK NEAR BEVERLY	--	037	2952560845214	1	MS

Table 9. Streamflow sites in subregion 14 (Choctawatchee, Yellow, and Escambia Rivers) where low-flow information is available

[ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 16

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County Code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03140101 (ST. ANDREW BAY, INFLOW AND COASTAL AREA)							
14-1	02359285	WETAPPO CREEK NEAR WEWAHITCHKA	45.0	045	3003000851820	18	MS, PM
14-2	02359300	SANDY CREEK NEAR PANAMA CITY	25.0	005	3008270852426	23	CG PM MS
14-3	02359312	CALLAWAY CREEK NEAR PARKER	--	005	3010300853337	4	MS
14-4	02359322	MILL BAYOU NEAR LYNN HAVEN BAY	--	005	3013070853558	3	MS
14-5	**02359350**	**ECONFINA CREEK NEAR COMPASS LK**	**40.5**	**005**	**3033200852605**	20	**GS MS**
14-6	02359425	ECONFINA CREEK NEAR GREENHEAD	67.3	133	3030400853019	3	PM
14-7	**02359450**	**ECONFINA CREEK NEAR FOUNTAIN**	**70.2**	**133**	**3028550853130**	DV	**GS**
14-8	**02359466**	**ECONFINA CR AB BLUE SPR NEAR GREEN-HEAD**	**--**	**133**	**3027060853155**	5	**PM**
14-9	02359477	ECONFINA CR ABOVE GAINER SPRINGS NEAR BENNETT	--	005	3025400853253	5	PM
14-10	02359481	ECONFINA C BLW GAINER SPR NEAR BENNET	--	005	3025340853258	5	PM
14-11	**02359500**	**ECONFINA CREEK NEAR BENNETT**	**122**	**005**	**3023040853324**	DV	**GS**
14-12	**02359550**	**BEAR CREEK NEAR YOUNGSTOWN**	**67.2**	**005**	**3019100852720**	27	**CG PM MS**
14-13	02359600	LITTLE BEAR CREEK AT YOUNGTOWN	27.4	005	3032000852640	1	MS
14-14	02359604	JUNIPER CR NEAR YOUNGSTOWN	--	005	3021030852956	4	MS
14-15	02359610	WHITE OAK CREEK NEAR GREENHEAD.	8.46	133	3033100853230	18	PM
14-16	02359611	GAP POND TRIBUTARY NEAR GREENHEAD	--	005	3033270853314	1	MS
14-17	02359612	GRIFFIN MILL POND OUTLET NEAR GREENHEAD	--	133	3033340853314	4	MS
14-18	02359613	GODWIN BRANCH NEAR GREENHEAD	--	133	3033110853303	4	MS
14-19	02359615	GAP POND OUTLET NEAR GREENHEAD	--	131	3032410853301	1	MS
14-20	02359617	SAND MOUNTAIN B NEAR GREENHEAD	--	133	3031110853118	4	MS
14-21	02359619	SWINDLE SWAMP DIVERSION NEAR GREENHEAD	--	133	3031150853227	3	MS
14-22	02359620	BLACK SLOUGH NEAR GREENHEAD	--	133	3030450853330	17	PM
14-23	02359632	HAMLIN POND OUTLET NEAR GREENHEAD	--	133	3029230853535	1	MS
14-24	02359650	BIG CEDAR CREEK NEAR BENNETT	95.0	005	3022100853720	17	PM
14-25	02359654	BAYOU GEORGE NEAR BAYOU GEORGE	--	005	3014360852827	3	MS
14-26	02359661	DEER POINT LAKE OUTLET NEAR SOUTHPORT	435	005	3016060853621	2	MS
14-27	02359675	BURNT MILL CR NEAR SOUTHPORT	--	005	3022460854342	4	MS
14-28	02359680	BIG CROOKED CR NEAR WEST BAY	--	005	3020120854943	3	MS
14-29	02359683	PIGEON CR NEAR WEST BAY	--	005	3020100854929	3	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03140102 (CHOCTAWHATCHEE BAY, INFLOW AND COASTAL AREA)							
14-30	**02366900**	**MAGNOLIA CREEK NEAR FREEPORT**	**11.2**	**131**	**3031480860515**	89	**GS PM**
14-31	**02366911**	**LAFAYETTE CREEK AT FREEPORT**	**35.5**	**131**	**3029350860733**	19	**PM**
14-32	**02367000**	**ALAQUA CREEK NEAR DEFUNIAK SPRINGS**	**65.6**	**131**	**3037000860950**	DV	**GS**
14-33	**02367006**	**ALAQUA CREEK NEAR PORTLAND**	**83.7**	**131**	**3033220861045**	DV	**PM GS**
14-34	02367165	BASIN CREEK NEAR PORTLAND	36.2	131	3031020861409	4	MS
14-35	**02367240**	**ROCKY CREEK NEAR PORTLAND**	**42.4**	**131**	**3034230862201**	19	**MS GS**
14-36	**02367242**	**LITTLE ROCKY CREEK NEAR NICEVILLE**	**3.85**	**091**	**3036340862531**	17	**GS PM**
14-37	**02367250**	**ROCKY CREEK NEAR NICEVILLE**	**67.0**	**131**	**3032070862255**	21	**CG PM**
14-38	02367264	LONG CREEK NEAR PORTLAND	6.25	131	3030450862324	2	MS
14-39	02367276	LONG CREEK (NO.2) NEAR VALPARAISO	4.42	091	3031200862442	2	MS
14-40	02367284	TURKEY CREEK NEAR VALPARAISO	2.97	091	3030430862530	2	MS
14-41	**02367300**	**SWIFT CREEK NEAR NICEVILLE**	**5.96**	**091**	**3031400862800**	6	**CG MS**
14-42	**02367305**	**TURKEY CREEK NEAR NICEVILLE**	**22.7**	**091**	**3033430863210**	20	**GS**
14-43	02367306	ROGUE CREEK NEAR VALPARAISO	--	091	3033200863346	5	PM
14-44	**02367307**	**TURKEY CREEK AT SR 123 NEAR NICEVIL-LEA**	**30.1**	**091**	**3033150863155**	10	**MS GS**

Table 9. Streamflow sites in subregion 14 (Choctawatchee, Yellow, and Escambia Rivers) where low-flow information is available--Continued

[ID, identification; mi^2, square mile; --, not determined]
Map identification number: First two digits identify hydrologic unit subregion code; number corresponds to location of site in the figure that shows the subregion area.
County code: See table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 16

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County Code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
14-45	**02367308**	**TENMILE CREEK NEAR VALPARAISO**	**16.8**	**091**	**3034120863100**	4	**MS**
14-46	02367309	ANDERSON BRANCH NEAR VALPARAISO	--	091	3033350863038	2	MS
14-47	**02367310**	**JUNIPER CREEK AT STATE HWY 85 NEAR NICEVILLE**	**27.6**	**091**	**3033260863110**	DV	**GS**
14-48	02367312	TOMS CREEK AT VALPARAISO	1.15	091	3030220863127	2	MS
14-49	**02367355**	**TURKEY CREEK @ GOVT. R.R. NEAR NICEVILLE**	**60.8**	**091**	**3032350863115**	23	**GS**
14-50	02367370	GARNIER CREEK AT LONGWOOD	9.42	091	3028490863507	31	CG PM
14-51	02367377	LIGHTWOOD KNOT CREEK AT LONGWOOD	11.8	091	3028410863546	33	CG PM
14-52	**303015086304000**	**TOM'S CREEK NEAR NICEVILLE,**	**--**	**091**	**3030150863040**	11	**PM MS**
STREAMFLOW SITES IN HYDROLOGIC UNIT 03140103 (YELLOW RIVER BASIN)							
14-53	02367900	YELLOW RIVER NEAR OAK GROVE	510	091	3055300863334	3	MS
14-54	**02368000**	**YELLOW RIVER AT MILLIGAN**	**624**	**091**	**3045100863745**	DV	**GS**
14-55	**02368300**	**BAGGETT CREEK NEAR MILLIGAN**	**7.80**	**091**	**3043400863935**	DV	**GS**
14-56	02368337	CANEY CREEK NEAR GLENDALE,	9.84	131	3052460861311	3	MS
14-57	02368450	GUM CREEK NEAR DE FUNIAK SPRINGS	24.4	131	3048080861142	4	MS
14-58	**02368500**	**SHOAL RIVER NEAR MOSSY HEAD**	**123**	**131**	**3047450861825**	DV	**GS**
14-59	02368770	HORSEHEAD CREEL NEAR LAUREL HILL,	--	091	3056020862611	2	MS
14-60	**02368800**	**POND CREEK NEAR DORCAS**	**94.8**	**091**	**3050020862543**	17	**GS**
14-61	**02368810**	**POND CREEK AT DORCAS,**	**96.5**	**091**	**3048360862429**	20	**PM**
14-62	02368817	PINE LOG CREEK NEAROWERSVILLE	22.2	131	3052430862142	2	MS
14-63	02368836	LONG CREEK NEAR MOSSY HEAD	22.3	131	3049420862031	2	MS
14-64	02368850	SHOAL RIVER AT DORCAS	319	091	3047270862514	3	MS
14-65	02368944	TITI CREEK NEAR MOSSY HEAD	15.4	131	3042070862316	2	MS
14-66	**02368990**	**TITI CREEK NEAR CRESTVIEW**	**62.9**	**091**	**3042050862928**	19	**GS**
14-67	**02369000**	**SHOAL RIVER NEAR CRESTVIEW**	**474**	**091**	**3041500863415**	DV	**GS**
14-68	02369084	TURKEY HEN CREEK NEAR CRESTVIEW,	--	091	3040500863430	1	MS
14-69	02369137	GOPHER CREEK NEAR MILLIGAN,	--	091	3040540863620	1	MS
14-70	02369260	CARSPRING BRANCH NEAR GALLIVERA	--	091	3040300863900	1	MS
14-71	02369379	TURKEY GOBBLER CREEK NEAR GALLIVERA	--	091	3040170863942	1	MS
14-72	02369415	WILKINSON CREEK NEAR GALLIVER,	--	091	3041230864041	1	MS
14-73	02369436	MIDDLE CREEK NEAR GALLIVER,	--	091	3039500864035	1	MS
14-74	02369456	MALONE CREEK NEAR GALLIVER,	7.51	091	3039360864157	1	MS
14-75	02369480	METTS CREEK NEAR HOLT,	--	091	3039200864347	1	MS
14-76	02369500	YELLOW RIVER NEAR HOLT	1,210	091	3040250864450	36	GS MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03140104 (BLACKWATER RIVER BASIN)							
14-77	02369920	BLACKWATER RIVER NEAR GOOD HOPE	90.0	091	3059200864312	2	MS
14-78	02369924	BOGGY HOLLOW CREEK NEAR GOOD HOPE	--	091	3058560864306	1	MS
14-79	02369930	BLACKWATER RIVER NEAR BLACKMAN	144	091	3056000864409	2	MS
14-80	**02370000**	**BLACKWATER RIVER NEAR BAKER**	**205**	**091**	**3050000864405**	DV	**GS**
14-81	**02370015**	**MUDDY BRANCH NEAR BEAVER CREEK**	**1.45**	**091**	**3051010864654**	12	**GS**

Table 9. Streamflow sites in subregion 14 (Choctawatchee, Yellow, and Escambia Rivers) where low-flow information is available--Continued

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County code: See table 1.
Number of measurements: The number of measurements available through 1987 that were considered for a low-flow analysis; DV, 10 or more years of continuous streamflow data are available.
Type of site: MS, miscellaneous site; LF, low-flow partial-record station; PM, periodic measurement station; CG, crest-stage partial-record station; and GS, continuous-record gaging station.
Bold type indicates sites where low-flow frequency and probability data have been determined. These data are presented in table 16

Map ID	Site ID	Site name and location	Drainage area (mi^2)	County Code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
14-82	**02370100**	**BLACKWATER RIVER NEAR HOLT**	**276**	**113**	**3043260864734**	14	**PM MS**
14-83	02370140	BLACKWATER RIVER NEAR HAROLD	298	113	3042180865255	8	MS PM
14-84	**02370200**	**BIG JUNIPER CREEK NEAR MUNSON**	**36.0**	**113**	**3051500865420**	71	**GS**
14-85	**02370230**	**SWEETWATER CREEK NEAR MUNSON**	**45.0**	**113**	**3051200865106**	14	**PM MS**
14-86	**02370250**	**BIG JUNIPER CREEK NEAR SPRING HILL**	**113**	**113**	**3047060865328**	26	**PM**
14-87	**02370270**	**BIG JUNIPER CREEK NEAR HAROLD**	**142**	**113**	**3043360865358**	12	**PM MS**
14-88	**02370280**	**EAST FORK BIG COLDWATER CREEK NEAR MUNSON**	**64.0**	**113**	**3052560865728**	14	**PM**
14-89	**02370300**	**WEST FORK BIG COLDWATER AT COBBTOWN**	**39.5**	**113**	**3053000870630**	33	**PM MS**
14-90	**02370500**	**BIG COLDWATER CREEK NEAR MILTON**	**237**	**113**	**3042300865820**	DV	**GS**
14-91	02370503	BIG COLDWATER RIVER NEAR HAROLD	--	113	3041390865758	1	MS
14-92	**02370700**	**POND CREEK NEAR MILTON**	**58.7**	**113**	**3040500870755**	DV	**GS**
14-93	02370730	HURRICANE BRANCH AT WALLACE	--	113	3040560870950	3	MS
14-94	02370740	HURRICANE BRANCH NEAR WALLACE	--	113	3040450870915	3	MS
14-95	02370750	HURRICANE BRANCH NEAR MILTON	2.95	113	3040320870817	14	PM MS
14-96	305049086590200	EAST FORK BIG COLDWATER NEAR BERRY-DALE	--	113	3050490865902	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03140105 (ESCAMBIA BAY, INFLOW AND COASTAL AREA)							
14-97	**02367320**	**EAST BAY RIVER NEAR WYNNEHAVEN BEACH**	**62.0**	**091**	**3025530864620**	30	**GS PM**
14-98	02367388	TURTLE CREEK NEAR FT WALTON BEACH	14.3	091	3031280864017	2	MS
14-99	**02367390**	**TURTLE CREEK NEAR OCEAN CITY**	**22.3**	**091**	**3030310864013**	30	**GS PM**
14-100	**02367397**	**LIVE OAK CREEK NEAR FLOROSA**	**16.2**	**091**	**3030390864253**	31	**CG PM**
14-101	02376077	CARPENTER CREEK NEAR PENSACOLA	4.31	033	3029020871322	21	PM
14-102	02376079	CARPENTER CREEK AT PENSACOLA	4.67	033	3028150871248	37	GS
14-103	302709086460100	PRAIRIE CREEK NEAR. WYNNEHAVEN BEACH	--	091	3027090864601	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03140106 (PERDIDO RIVER BASIN)							
14-104	**02376300**	**BRUSHY CREEK NEAR WALNUT HILL**	**49.0**	**033**	**3053210873224**	DV	**GS**
14-105	**02376400**	**MCDAVID CREEK NEAR BARRINEAU PARK**	**26.5**	**033**	**3044220872654**	15	**PM MS**
14-106	**02376500**	**PERDIDO RIVER AT BARRINEAU PARK**	**394**	**033**	**3041250872625**	DV	**GS**
14-107	02376551	CHURCH HOUSE BRANCH NEAR BARRINEAU PARK	.92	033	3040270872353	17	GS
14-108	02376645	JACK BRANCH NEAR MOLINO	--	033	3045430871930	1	MS
14-109	**02376700**	**JACKS BRANCH NEAR MUSCOGEE**	**23.2**	**033**	**3038130872310**	25	**GS MS**
14-110	02377000	PERDIDO RIVER AT MUSCOGEE	455	033	3036200872413	3	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03140107 (PERDIDO BAY, INFLOW AND COASTAL AREA)							
14-111	02376100	BAYOU MARCUS CREEK NEAR PENSACOLA	11.2	033	3026530871726	25	PM
14-112	02376108	ELEVENMILE CREEK NEAR ENSLEY	13.9	033	3032520871949	19	PM
14-113	02376110	ELEVENMILE CREEK NEAR PENSACOLA	--	033	3032040872034	2	MS

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Map ID	Site ID	Site name and location	Drainage area (mi^2)	County Code	Latitude/ longitude (degrees)	Number of measure-ments	Type of site
STREAMFLOW SITES IN HYDROLOGIC UNIT 03140202 (PEA RIVER)							
14-114	**02364620**	**EIGHTMILE CREEK NEAR GASKIN**	**24.9**	**131**	**3058500861045**	21	**CG PM**
14-115	02364769	SPRING BRANCH NEAR GASKIN	4.13	131	3058180860553	2	MS
14-116	02364781	LIMESTONE CREEK NEAR GASKIN	30	131	3059100860241	2	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03140203 (CHOCTAWHATCHEE RIVER BELOW PEA RIVER)							
14-117	**02365200**	**CHOCTAWHATCHEE RIVER NEAR PITTMAN**	**3210**	**059**	**3056590855035**	27	**GS**
14-118	02365237	FOWLER BRANCH NEAR LEONIA	5.09	059	3055170855601	7	GS
14-119	02365280	WEST PITTMAN CREEK NEAR LEONIA	--	059	3054480855456	2	MS
14-120	02365435	WRIGHTS CREEK NEAR BONIFAY	72.4	059	3051560854141	22	CG PM
14-121	02365450	TENMILE CREEK NEAR BONIFAY	--	059	3053220854238	1	MS
14-122	**02365482**	**WRIGHTS CREEK NEAR CARYVILLE**	**166**	**059**	**3049370854833**	14	**GS**
14-123	02365490	HATHAWAY MILL CREEK NEAR CARYVILLE	6.88	059	3048460854806	12	GS
14-124	**02365500**	**CHOCTAWHATCH E RIVER AT CARYVILLE**	**3500**	**059**	**3046320854940**	DV	**GS**
14-125	**02365658**	**SANDY CREEK NEAR ARGYLE**	**51.8**	**059**	**3045490860122**	18	**PM**
14-126	**02365700**	**SANDY CREEK AT PONCE DE LEON**	**116**	**059**	**304320855612**	31	**CG PM**
14-127	02365726	BRUCE CREEK NEAR DEFUNIAK SPRINGS	6.87	131	3041530860450	2	MS
14-128	**02365758**	**BRUCE CREEK NEAR REDBAY**	**51.4**	**131**	**3036510860050**	22	**CG PM**
14-129	**02365800**	**SEVEN RUNS NEAR REDBAY**	**25.8**	**131**	**3032180855514**	24	**MS GS**
14-130	02365840	HOLMES CR AT GRACEVILLE	--	063	3057540853153	3	MS
14-131	02365900	ALLIGATOR CREEK NEAR CHIPLEY	--	133	3046390853540	3	MS
14-132	**02366000**	**HOLMES CREEK AT VERNON**	**386**	**133**	**3037350854245**	DV	**GS PM**
14-133	02366164	REEDY BRANCH AT NEW HOPE	1.99	133	3035080854805	8	GS
14-134	**02366500**	**CHOCTAWHATCHEE RIVER NEAR BRUCE**	**4380**	**131**	**3027030855354**	DV	**GS**
14-135	**02366650**	**PINE LOG CREEK NEAR EBRO**	**114**	**005**	**3025080855218**	12	**MS PM**
14-136	**02366836**	**BLACK CREEK NEAR BRUCE**	**15.2**	**131**	**3028260855920**	4	**MS**
14-137	02366859	PATE BRANCH NEAR FREEPORT	1.87	131	3028440860425	12	GS
14-138	304155086045100	BRUCE CREEK AT STE RD 280 NEAR DEFUNIAK SPR.	--	131	3041550860451	1	MS
14-139	304212086045700	UNNAMED TRIB. TO BRUCE CREEK NEAR DEFUNIAK SPR.	--	131	3042120860457	1	MS
STREAMFLOW SITES IN HYDROLOGIC UNIT 03140305 (ESCAMBIA RIVER)							
14-140	**02375500**	**ESCAMBIA RIVER NEAR CENTURY**	**3820**	**113**	**3057540871403**	DV	**GS**
14-141	02375650	CANOE CREEK NEAR BRATT	--	033	3058010872143	3	MS
14-142	**02375800**	**MOORE CREEK NEAR CHUMUCKLA**	**22.0**	**113**	**3048350871514**	29	**MS PM**
14-143	**02376000**	**PINE BARREN CREEK NEAR BARTH**	**75.3**	**033**	**08722050872205**	DV	**GS**
14-144	02376008	PINE BARREN CREEK NEAR MOLINO	--	033	3046300872020	2	MS
14-145	**02376033**	**ESCAMBIA RIVER NEAR MOLINO**	**4150**	**033**	**3040050871600**	16	**PM GS**
14-146	303313087140000	SOUTH MONITOR CREEK NEAR PENSACOLA	--	033	3033170871349	13	PM
14-147	303342087140400	CLEAR CREEK TRIB.NEAR.PENSACOLA	--	033	3033580871405	15	PM

Table 10. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 07 (St. Marys River)

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02228500 North Prong St. Marys River at Moniac, Fla.

LOCATION.--Lat 30°31'03", long 82°13'15", in NW$\frac{1}{4}$ sec. 8, T.1 N., R21 E.. at bank near bridge on State Highway 2 and 94, 0.4 mile west of Moniac, and 122 miles upstream of mouth of St. Marys River.

COUNTY.--Baker.

HYDROLOGIC UNIT.--03080101.

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

TRIBUTARY TO.--Atlantic Ocean.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1921 to March 1923, April 1927 to March 1930, April 1929 to March 1930, and April 1951 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.16	0.30	0.46	1.1	2.2	6.9	13	23	56
5	0	0	0	.01	.13	.65	1.7	3.8	16
10	0	0	0	0	.02	.13	.47	1.1	7.9
20	0	0	0	0	0	.03	.13	3.2	4.2
50	0	0	0	0	0	0	.03	.07	1.9

02229000 Middle Prong St. Mary River at Taylor, Fla.

LOCATION.--Lat 30°26'10", long 82°17'15", in SW$\frac{1}{4}$ sec.2, T.1 S., R.20 E., at bridge on State Highway 125, 0.5 mile southeast of Taylor, and 7.4 miles upstream from mouth.

COUNTY.--Baker.

HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--125 mi^2, approximately.

TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1956 to March 1967 and April 1976 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.1	1.1	1.2	1.4	2.1	4.3	8.0	13	36
5	.37	.38	.39	.47	.70	1.3	2.0	3.4	9.9
10	.20	.21	.22	.27	.41	.73	.98	1.6	4.6
20	.12	.12	.14	.17	.26	.45	.54	.87	2.3

ACCURACY.--$SE_{7,2}$ = 31 percent, $SE_{7,10}$ = 41 percent; $SE_{30,2}$ = 32 percent, $SE_{30,10}$ = 46 percent

Table 10. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 07 (St. Marys River)--Continued

02229500 South Prong St. Marys River near Sanderson, Fla.

LOCATION.--Lat 30°12'17", long 82°15'79", in NW$\frac{1}{4}$ sec.25, T.3S., R.20E., at bridge on State Highway 229, 1 mile upstream from small tributary and 3.5 miles south of Sanderson.

COUNTY.--Baker. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--57.8 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.05 ft^3/s, $Q_{7,10}$ = 0.03 ft^3/s; $Q_{30,2}$ = 0.12 ft^3/s, $Q_{30,10}$ = 0.05 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02230500 SouthProng St. Marys River at Glen St. Marys using 33 measurements and 1 observation of zero flow during 1956-67.

ACCURACY.--$SE_{7,2}$ = 144 percent, $SE_{7,10}$ = 154 percent; $SE_{30,2}$ = 137 percent, $SE_{30,10}$ = 149 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1955-60.

02230000 Turkey Creek at Macclenny, Fla.

LOCATION.--Lat 30°16'08", long 82°07'21", in NE$\frac{1}{4}$, sec. 5, T.3 S., R.22 E., at bridge on State Highway 121, 0.9 mile south of Macclenny, and 1.8 miles upstream of mouth.

COUNTY.--Baker. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--19.9 mi^2. TRIBUTARY TO.--South Prong St. Marys River.

TYPE OF SITE.--Continuous-record gaging station and crest-stage partial-record station.

PERIOD OF RECORD ANALYZED.--April 1956 to March 1969.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.51	0.55	0.61	0.78	1.1	1.7	3.0	5.4	15
5	.28	.34	.39	.50	.66	1.2	1.9	2.6	7.0
10	.19	.25	.30	.39	.52	.94	1.5	1.8	4.1

ACCURACY.--$SE_{7,2}$ = 16 percent, $SE_{7,10}$ = 16 percent; $SE_{30,2}$ = 17 percent, $SE_{30,10}$ = 23 percent.

Table 10. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 07 (St. Marys River)--Continued

02230500 South Prong St. Marys River at Glen St. Marys, Fla.

LOCATION.--Lat 30°16'43", long 82°08'40", in SW$\frac{1}{4}$ - sec.31, T.2 S., R.22 E., on bank near bridge on U.S. Highway 90, 1.0 mile east of Glen St. Marys, and 8.2 miles upstream from mouth.

COUNTY.--Baker.

HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--156 mi^2.

TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1957 to March 1971.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	3.5	3.6	3.9	4.6	6.0	11	20	34	81
5	2.7	2.8	3.0	3.4	4.2	6.8	11	16	36
10	2.6	2.6	2.8	3.2	3.7	5.5	8.2	11	22
20	2.5	2.6	2.7	3.1	3.4	4.7	6.9	8.2	14

ACCURACY.--$SE_{7,2}$ = 22 percent, $SE_{7,10}$ = 40 percent; $SE_{30,2}$ = 20 percent, $SE_{30,10}$ = 36 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1950-71. Annual low-flow values prior to 1958 do not conform with long-term trends.

02231000 St. Marys River near Macclenny, Fla.

LOCATION.--Lat 30°21'31", long 82°04'54", in NW$\frac{1}{4}$ - sec. 2, T.2 S., R.22 E., on bank near site of former Stokes Bridge, 1 mile downstream from confluence of North and South Prongs, 8 miles northeast of Macclenny, and 100 miles upstream from mouth..

COUNTY.--Baker.

HYDROLOGIC UNIT.--03080101.

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

TRIBUTARY TO.-Atlantic Ocean

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1957 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	39	40	43	47	56	82	123	186	331
5	30	31	32	34	40	51	69	99	187
10	27	27	28	30	34	41	52	71	137
20	24	24	26	27	31	34	41	54	105
50	22	22	23	25	28	28	32	39	78

ACCURACY.--$SE_{7,2}$ = 9 percent, $SE_{7,10}$ = 14 percent; $SE_{30,2}$ = 10 percent, $SE_{30,10}$ = 16 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1927-87. Annual low-flow values prior to 1958 do not conform with long-term trends.

02231050 Deep Creek near Baldwin, Fla.

LOCATION.--Lat 30°18'02", long 82°01'50", in NW$\frac{1}{4}$ sec.29, T.2S., R.23E., at bridge on U.S. Highway 90, 3.2 miles west of Baldwin and 5.0 miles above mouth.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--23.2 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.10 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02231280 Thomas Creek near Crawford using 10 measurements and 1 observation at zero flow during 1964-86.

02231051 Deep Creek tributary No. 3 near Baldwin, Fla.

LOCATION.--Lat 31°18'30", long 82°00'30", in SW$\frac{1}{4}$ sec.21, T.2S., R.22E., at culvert on State Highway 121, 2.0 miles west of Baldwin.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--1.89 mi^2. TRIBUTARY TO.--Deep Creek..

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 1 observation of near zero flow with streamflow conditions at index stations 02231280 Thomas Creek near Crawford and 02230000 Turkey Creek at Macclenny. Observation of zero flow were made in 1967.

02231052 Deep Creek tributary near Baldwin, Fla.

LOCATION.--Lat 31°18'50", long 82°00'30", in NW$\frac{1}{4}$ sec.21, T.2S., R.23E., at culvert on State Highway 121, 2.0 miles west of Baldwin.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--0.53 mi^2. TRIBUTARY TO.--Deep Creek.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Comparison of 3 observations of zero flow with streamflow conditions at index stations 02231280 Thomas Creek near Crawford and 02230000 Turkey Creek at Macclenny. Observations of zero flow were made in 1965, 1967, and 1986.

02231054 Deep Creek tributary No. 2 near Baldwin, Fla.

LOCATION.--Lat 30°19'30", long 82°00'30", in SW$\frac{1}{4}$ sec.16, T.2S., R.23E., at culvert on State Highway 121, 2.4 miles northwest of Baldwin.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--6.71 mi^2. TRIBUTARY TO.--Deep Creek..

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.06 ft^3/s, $Q_{7,10}$ = 0.02 ft^3/s; $Q_{30,2}$ = 0.10 ft^3/s, $Q_{30,10}$ = 0.04 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02230000 Turkey Creek at Macclenny using 4 measurements made during 1965-67.

Table 10. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 07 (St. Marys River)--Continued

02231065 Brandy Branch near Bryceville, Fla.

LOCATION.--Lat 30°22'00", long 82°01'00", in Land Grant 37, T.1S., R.23E., at bridge on State Highway 121, 4.6 miles west of Bryceville.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--62.5 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.01 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02231280 Thomas Creek near Crawford using 4 measurements and 2 observations of zero flow during 1965-86.

02231070 St. Marys River tributary near Bryceville, Fla.

LOCATION.--Lat 30°24'20", long 82°00'20", in $SE\frac{1}{4}$ sec.23, T.1N., R.23E., at culvert on State Highway 121, 4.5 miles northwest of Bryceville.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--1.67 mi^2. TRIBUTARY TO.--St. Mary's River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.01 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02231280 Thomas Creek near Crawford using 3 measurements and 2 observations of zero flow during 1965-86.

02231080 Deep Creek near Bryceville, Fla.

LOCATION.--Lat 30°27'20", long 82°00'20", in $SE\frac{1}{4}$ sec.23, T.1N., R.23E., at culvert on State Highway 121, 4.5 miles northwest of Bryceville.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--10.1 mi^2. TRIBUTARY TO.--St. Mary's River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.02 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02231280 Thomas Creek near Crawford using 4 measurements made during 1965-67 and 02230000 Turkey Creek at Macclenny.

02231085 St. Marys River tributary No. 2 near Kent, Fla.

LOCATION.--Lat 30°28'52", long 81°59'55", in $SW\frac{1}{4}$ sec.14, T.1N., R.23E., at culvert on State Highway 121, 3.3 miles southwest of Kent.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--3.29 mi^2. TRIBUTARY TO.--St. Mary's River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 2 observations of zero flow with streamflow conditions at index stations 02231280 Thomas Creek near Crawford and 0230000 Turkey Creek at Macclenny. Zero flow was observed in 1965 and 1967.

Table 10. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 07 (St. Marys River)--Continued

02231105 St. Marys River tributary No. 4 near Kent, Fla.

LOCATION.--Lat 30°32'30", long 81°59'50", near center, sec.34, T.2N., R.23E., at bridge on county road, 2.3 miles northwest of Kent.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--1.11 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 2 observations of zero flow with stream conditions at index stations 02231280 Thomas Creek near Crawford and 02230000 Turkey Creek at Macclenny. Zero flow was observed in 1965 and 1967.

02231110 Mill Creek near Kent, Fla.

LOCATION.--Lat 30°34'00", long 81°59'30", SE$\frac{1}{4}$ sec.22, T.2N., R.23E., at bridge on State Highway 121, 3.4 miles northwest of Kent.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--31.0 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.28 ft^3/s, $Q_{7,10}$ = 0.06 ft^3/s; $Q_{30,2}$ = 0.58 ft^3/s, $Q_{30,10}$ = 0.16 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02231280 Thomas Creek near Crawford using 5 measurements made during 1965-67.

02231120 Deep Creek near Kent, Fla.

LOCATION.--Lat 30°36'00", long 32°00'00", SE$\frac{1}{4}$ sec.10, T.2N., R.23E., at bridge on State Highway 121, 5.6 miles northwest of Kent.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--11.2 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Comparison of 1 streamflow measurement and 2 observations of zero flow with stream conditions at 02231230 Thomas Creek near Crawford and 0223000 Turkey Creek at Macclenny during 1965-67.

0221130 Stave Branch near Hilliard, Fla.

LOCATION.--Lat 30°37'44", long 82°00'46", SE$\frac{1}{4}$ sec.33, T.3N., R.23E., at bridge on State Highway 121, 7.0 miles southwest of Hilliard.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--0.28 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 1 streamflow measurement and 2 observations of zero flow with stream conditions at 02231230 Thomas Creek near Crawford and 0223000 Turkey Creek at Macclenny during 1965-67.

Table 10. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 07 (St. Marys River)--Continued

02231145 Dunn Creek near Boulogne, Fla.

LOCATION.--Lat 30°42'26", long 82°01'19", in Land Grant 37, T.3N., R.23E., at bridge on State Highway 121, 5.2 miles southwest of Boulogne.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--9.91 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.13 ft^3/s, $Q_{7,10}$ = 0.01 ft^3/s; $Q_{30,2}$ = 0.56 ft^3/s, $Q_{30,10}$ = 0.05 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02231280 Thomas Creek near Crawford using 4 measurements made during 1965-67.

02231150 Little Dunn Creek at Boulogne, Fla.

LOCATION.--Lat 30°43'03", long 82°00'25", in SW$\frac{1}{4}$ sec.34, T.4N., R.23E., at culvert on State Highway 121, 3 miles above mouth and 4.2 miles southwest of Boulogne.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--8.72 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.06 ft^3/s, $Q_{7,10}$ = 0.01 ft^3/s; $Q_{30,2}$ = 0.28 ft^3/s, $Q_{30,10}$ = 0.04 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02231280 Thomas Creek near Crawford using 6 measurements made during 1965-67.

02231170 Brushy Creek near Boulogne, Fla.

LOCATION.--Lat 30°43'50", long 81°59'40", in SE$\frac{1}{4}$ sec.27, T.4N., R.23W., at culvert on State Highway 121, 3.1 miles south of Boulogne.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--0.85 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 2 observations of zero flow with 02231280 Thomas Creek near Crawford during 1965 and 1967.

02231230 Pigeon Creek at Boulogne, Fla.

LOCATION.--Lat 30°45'39", long 81°58'04", in Land Grant 41, T.4N., R.23E., at bridge on U.S. Highway 1, 1 mile south of Boulogne and 1.9 miles above mouth.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--9.36 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Crest-stage partial-record station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.46 ft^3/s, $Q_{7,10}$ = 0.13 ft^3/s; $Q_{30,2}$ = 0.90 ft^3/s, $Q_{30,10}$ = 0.29 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02231280 Thomas Creek near Crawford using 10 measurements made during 1965-71.

REMARKS.--Operated as a small basin, rainfall-runoff station during 1969-77.

Table 10. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 07 (St. Marys River)--Continued

02231238 St. Marys River tributary No. 5 at Kings Ferry, Fla.

LOCATION.--Lat 30°46'40", long 31°50'50", in Land Grant 48, T.4N., R.25E., at culvert on State Highway 115A, 0.7 mile south of Kings Ferry.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--0.16 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 2 observations of zero flow with streamflow conditions at 02231280 Thomas Creek near Crawford during 1965 and 1967.

02231250 Little St. Marys River near Hilliard, Fla.

LOCATION.--Lat 30°43'55", long 81°53'35", in $SE\frac{1}{4}$ sec.27, T.4N., R.24E., at bridge on State Highway 115A, 3.3 miles northeast of Hilliard.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--19.8 mi^2. TRIBUTARY TO.--St. Marys River.

TYPE OF SITE.--Miscellaneous site and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Occurrences of zero-flow days during continuous-record operation in 1965-67, and 3 observations of zero flow made in 1967, 1968, and 1970.

REMARKS.--Operated as a continuous-record streamflow station during 1965-67.

02231260 Mills Creek near Hilliard, Fla.

LOCATION.--Lat 30°38'21", long 81°51'47", in $NW\frac{1}{4}$ sec.36, T.3N., R.24E., at bridge on U.S. Highway 1, 4.8 miles southeast of Hilliard.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--17.6 mi^2. TRIBUTARY TO.--Nassau River.

TYPE OF SITE.--Crest-stage partial-record station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 6 observations of zero flow with streamflow conditions at 02231280 Thomas Creek near Crawford during 1965-67.

02231268 Alligator Creek at Callahan, Fla.

LOCATION.--Lat 30°33'59", long 81°50'01", in $NW\frac{1}{4}$ sec.29, T.2N., R.25E., at bridge on U.S. Highway 1 at Callahan.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--14.0 mi^2. TRIBUTARY TO.--NassauRiver.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.22 ft^3/s, $Q_{7,10}$ = 0.07 ft^3/s; $Q_{30,2}$ = 0.48 ft^3/s, $Q_{30,10}$ = 0.16 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02231280 Thomas Creek near Crawford using 49 measurements made during 1981-89.

ACCURACY.--$SE_{7,2}$ = 187 percent, $SE_{7,10}$ = 244 percent; $SE_{30,2}$ = 170 percent, $SE_{30,10}$ = 203 percent.

REMARKS.--Operated as a continuous-record streamflow gaging station since 1981.

Table 10. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 07 (St. Marys River)--Continued

02231272 Cushing Creek at Callahan, Fla.

LOCATION.--Lat 30°33'30", long 81°49'10", in SE$\frac{1}{4}$ sec.29, T.2N., R.25E., at bridge on State Highway 115, 0.7 mile southeast Callahan.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--19.9 mi^2. TRIBUTARY TO.--Alligator Creek.

TYPE OF SITE.--Crest-stage partial-record station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.10 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02231280 Thomas Creek near Crawford using 4 measurement and 1 observation of zero flow during 1964-067 and 1982.

02231275 Plummer Creek near Italia, Fla.

LOCATION.--Lat 30°37'53", long 81°41'06", in SE$\frac{1}{4}$ sec.34, T.3N., R.26E., at country road, 2.1 miles northeast of Italia.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070204.

DRAINAGE AREA.--11.3 mi^2. TRIBUTARY TO.--Alligator Creek.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 2 observations of zero flow with streamflow conditions at 02231280 Thomas Creek near Carwford in 1965 and 1967.

02231280 Thomas Creek near Crawford, Fla.

LOCATION.--Lat 30°27'39", long 81°49'57", in NW$\frac{1}{4}$ sec. 32, T.1 N., R25 E. at bridge on Acree Road, 4.4 miles southeast of Crawford, and 24 miles upstream from mouth.

COUNTY.--Duval. HYDROLOGIC UNIT.--03070205.

DRAINAGE AREA.--29.9 mi^2. TRIBUTARY TO.-Nassau River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1965 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.8	1.8	1.9	2.3	3.1	4.3	6.4	8.7	15
5	1.1	1.2	1.2	1.5	2.0	2.9	3.8	5.1	8.8
10	.84	.90	.97	1.2	1.6	2.3	2.9	3.8	6.4
20	.66	.73	.79	.94	1.3	1.9	2.2	3.0	4.8

ACCURACY.--$SE_{7,2}$ = 13 percent, $SE_{7,10}$ = 16 percent; $SE_{30,2}$ = 12 percent, $SE_{30,10}$ = 15 percent.

Table 10. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 07 (St. Marys River)--Continued

02231284 Thomas Creek at State Highway 115, near Callahan, Fla.

LOCATION.--Lat 30°31'00", long 81°45'50", in land grant 37, T.1N., R.25 E., at bridge on State Highway 115, 4.7 miles southeast of Callahan.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070205.

DRAINAGE AREA.--64.1 mi^2. TRIBUTARY TO.--Nassau River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 5 observations of zero flow with hydrologic conditions at 02231280 Thomas Creek near Crawford in 1986-87.

02231290 Lofton Creek near Yulee, Fla.

LOCATION.--Lat 30°39'46", long 81°38'07", in land grant 50, T.3N., R.27E., at bridge on U.S. Highway 17, 2.8 miles northwest of Yulee.

COUNTY.--Nassau. HYDROLOGIC UNIT.--03070205.

DRAINAGE AREA.--10.4 mi^2. TRIBUTARY TO.--Nassau River.

TYPE OF SITE.--Low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 5 observations of zero flow with streamflow conditions at 02231280 Thomas Creek near Carwford during 1965-67.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02231342 Fort Drum Creek at Sunshine State Parkway, near Fort Drum, Fla.

LOCATION.--Lat 27°34'06", long 80°47'47", in NE$\frac{1}{4}$ sec. 35, T.33 S., R.35 E., at southbound bridge on Sunshine State Parkway, 2.7 miles southeast of the Fort Drum Service Plaza, and 3.0 miles north of Fort Drum.
COUNTY.--Okeechobee. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--52.6 mi^2. TRIBUTARY TO.--St. Johns Marsh.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1977 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0.02	0.73	2.1	3.8	7.4	10
5	0	0	0	0	0	0	.61	.87	3.7
10	0	0	0	0	0	0	0	.19	2.3

ACCURACY.--$SE_{30,2}$ = 18 percent.
REMARKS.--No flow for several days each year; creek dry at gage for many days in 1981.

02231390 Cow Log Branch near Yeehaw Junction Fla.

LOCATION.--Lat 27°41'19", long 80°52'52", in SE$\frac{1}{4}$ sec. 13, T.32 S., R.34 E., at bridge on State Highway 60, 1.6 miles southeast of Yeehaw Junction.
COUNTY.--Osceola. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--20.5 mi^2. TRIBUTARY TO.--St. Johns Marsh.
TYPE OF SITE.--Miscellaneous site and periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 5 observations of near zero flow with streamflow conditions at 02231342 Fort Drum Creek at Sunshine State Parkway near Fort Drum during 1985-88.

02231600 Jane Green Creek near Deer Park, Fla.

LOCATION.--Lat 28°04'27", long 80°53'18", in SE$\frac{1}{4}$ sec.2, T.28 S., R.34 E., at bridge on county road, 1.2 miles southeast of Deer Park, 2 miles downstream from confluence of Crabgrass and Bull Creeks, and 5.8 miles upstream from mouth.
COUNTY.--Osceola. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--248 mi^2. TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1953 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	1.5	7.9	19	43
5	0	0	0	0	0	0	.60	1.6	10
10	0	0	0	0	0	0	0	.14	4.0
20	0	0	0	0	0	0	0	0	1.7
50	0	0	0	0	0	0	0	0	0

REMARKS.--No flow for many days in some years; creek dry at gage at times in some years.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02232000 St. Johns River near Melbourne, Fla.

LOCATION.--Lat 28°05'04", long 80°45'08", in NW$\frac{1}{4}$ sec. 5, T.28 S., R.36 E., at bridge on U.S. Highway 192, 9.2 miles west of Melbourne, and 262 miles upstream from mouth.

COUNTY.--Brevard.

HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--968 mi^2.

TRIBUTARY TO.--Atlantic Ocean.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1939 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	36	38	38	43	52	69	92	110	180
5	0	1.6	3.6	9.7	14	22	48	55	73
10	-21	-2.6	-.09	0	0	10	20	33	48
20	-58	-43	-33	-24	-8.8	.21	4.2	10	18

REMARKS.--Extreme low flows affected by wind.

02232200 Wolf Creek near Deer Park, Fla.--regulated

LOCATION.--Lat 28°12'46", long 80°54'40", in NW$\frac{1}{4}$ sec.22, T.26 S., R.34 E., at bank near bridge on State Highway 419, 2.9 miles upstream from mouth, and 8.5 miles north of Deer Park.

COUNTY.--Osceola.

HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--25.7 mi^2.

TRIBUTARY TO.--St. Johns River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1970 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0.01	0.12	0.63	2.3	3.2	6.0
5	0	0	0	0	0	.06	.32	.67	1.3
10	0	0	0	0	0	0	.19	.25	.80
20	0	0	0	0	0	0	0	.10	.58

REMARKS.--Flow regulated to some extent since October 1970 by the construction of Jane Green Resevoir; levees were constructed and an interconnecting canal was dug joining the watershed areas of Taylor, Pennywash, Cox, and Wolf Creeks. The frequency values reported above are for the regulated period of record, and assume a consistent pattern of regulation.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02232200 Wolf Creek near Deer Park, Fla.--unregulated

PERIOD OF RECORD ANALYZED.--October 1956 to September 1970.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	--	--	0.13	--	0.65	--	--	--	--
5	--	--	0	--	0	--	--	--	--
10	--	--	0	--	0	--	--	--	--

REMARKS.--The frequency values are for the unregulated period of record.

02232400 St. Johns River near Cocoa, Fla.

LOCATION.--Lat 28°22'10", long 80°52'22", in SE$\frac{1}{4}$ sec. 25, T.24 S., R.34 E., at bridge on State Highway 520, 0.6 mile upstream from Taylor Creek, 0.7 mile downstream from outlet of Lake Poinsett, 8.8 miles west of Cocoa, and 232 miles upstream from mouth.
COUNTY.--Brevard.
HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--1,331 mi^2.
TRIBUTARY TO.--Atlantic Ocean.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1953 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	93	96	99	106	120	151	187	228	345
5	34	36	37	40	46	59	78	95	133
10	19	20	22	23	26	35	46	57	77
20	12	12	13	14	17	22	30	36	46
50	6.6	7.2	7.7	8.3	9.5	12	17	21	23

ACCURACY.--$SE_{7,2}$ = 21 percent, $SE_{7,10}$ = 23 percent; $SE_{30,2}$ = 21 percent, $SE_{30,10}$ = 21 percent.
REMARKS.--Records include inflow from Taylor Creek.

02232455 Second Creek near Christmas, Fla.

LOCATION.--Lat 28°26'54", long 80°58'25", in NW$\frac{1}{4}$ sec. 36, T.23 S., R.33 E., at bridge on State Highway 520, 6.6 miles southeast of Christmas, Fla.
COUNTY.--Orange.
HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--13.8 mi^2.
TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 2 observations of no flow (dry channel) with streamflow conditions at 02232200 Wolf Creek near Deer Park during 1961 and 1981.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02232458 Settlement Creek near Christmas, Fla.

LOCATION.--Lat 28°27'33", long 80°59'19", in SW$\frac{1}{4}$ sec. 26, T.23 S., R.33 E., at culvert on State Highway 520, 0.4 mile east of Taylor Creek Road, and 5.7 miles south of Christmas.
COUNTY.--Orange. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--6.14 mi^2. TRIBUTARY TO.--Jim Creek.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 3 observations of no flow (dry channel) with streamflow conditions at 02232200 Wolf Creek near Deer Park during 1960-61 and 1981.

02232500 St. Johns River near Christmas, Fla.

LOCATION.--Lat 28°32'34", long 80°56'37", in SW$\frac{1}{4}$ sec. 29, T.22 S., R.34 E., at bridge on State Highway 50, 0.3 mile upstream from Tootoosahatchee Creek, 2 miles upstream from Lake Cone, 4.5 miles east of Christmas, and 209 miles upstream from mouth.
COUNTY.--Orange. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--1,539 mi^2. TRIBUTARY TO.--Atlantic Ocean.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1933 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	109	111	116	125	143	190	216	271	413
5	37	41	41	43	54	70	92	115	185
10	18	20	22	23	31	40	58	72	118
20	6.4	10	12	13	19	25	40	48	79
50	0	0	4.3	6.5	10	14	25	30	50

ACCURACY.--$SE_{30,2}$ = 17 percent, $SE_{30,10}$ = 17 percent.

02232550 Tootoosahatchee Creek near Christmas, Fla.

LOCATION.--Lat 28 30'04", long 81 00'03", in SE$\frac{1}{4}$ sec. 10, T.23 S., R.22 E. at bridge on Taylor Creek Road, 2.7 miles north of State Highway 520, and 2.7 miles south of Christmas.
COUNTY.--Orange. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--13.9 mi^2. TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 3 observations of no flow (dry channel) with streamflow conditions at 02232200 Wolf Creek near Deer Park during 1961, 1965, 1967 and 1981.

02232702 Christmas Creek near Christmas, Fla.

LOCATION.--Lat 28°34'08", long 81°01'36", in SW$\frac{1}{4}$ sec. 16, T.22 S., R.33 E., at bridge on State Highway 420, 2.3 miles north of Christmas, and 2.6 miles north of State Highway 50.
COUNTY.--Orange. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--3.65 mi^2. TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02232200 Wolf Creek near Deer Park using 3 measurements made during 1960-1967.
REMARKS.--Wolf Creek was unregulated during 1956-70.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02232705 Joshua Creek near Christmas, Fla.

LOCATION.--Lat 28°34'31", long 81°03'11", in SE$\frac{1}{4}$ sec. 18, T. 22 S., R. 33 E., at bridge on State Highway 420, 3.4 miles northwest of Christmas.

COUNTY.--Orange.

HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--2.71 mi^2.

TRIBUTARY TO.--St. Johns River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 1 observation of no flow (dry channel) with streamflow conditions at 02232200 Wolf Creek nr Deer Park during 1961.

REMARKS.--Wolf Creek was unregulated during 1956-70.

02232712 Roberts Branch near Bithlo, Fla.

LOCATION.--Lat 28°35'54", long 81°04'32", in NW$\frac{1}{4}$ sec. 12, T.22 S., R.32 E., at bridge on State Highway 420, 3.6 miles northeast of Bithlo.

COUNTY.--Orange.

HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--3.35 mi^2.

TRIBUTARY TO.--St. Johns River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 3 observations of zero flow, two of which were dry channels, with streamflow conditions at 02232200 Wolf Creek near Deer Park during 1960-61 and 1967.

REMARKS.--Wolf Creek was unregulated during 1956-70.

02233001 Econlockhatchee River at Magnolia Ranch near Bithlo, Fla.

LOCATION.--Lat 28°25'27", long 81°07'10", in SE$\frac{1}{4}$ sec. 4, T.24 S., R.32 E., at bridge on Wewahootee Road, 250 feet downstream from Disston Canal, and 7 miles south of Bithlo.

COUNTY.--Orange.

HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--32.9 mi^2.

TRIBUTARY TO.--St. Johns River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1972 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0.12	0.45	0.85	2.8
5	0	0	0	0	0	0	.02	.03	.33
10	0	0	0	0	0	0	0	0	.15
20	0	0	0	0	0	0	0	0	.08
50	0	0	0	0	0	0	0	0	0

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02233102 Econlockhatchee River Tributary near Bithlo, Fla.

LOCATION.--Lat 28°33'55", long 81°11'19", in NW$\frac{1}{4}$ sec.23, T.22 S., R.31 E., at culvert on State Highway 50, 2.5 miles above mouth and 5.1 miles west of Bithlo.

COUNTY.--Orange.

HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--1.83 mi .

TRIBUTARY TO.--Econlockhatchee River.

TYPE OF SITE.--Miscellaneous site, crest-stage partial-record station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.03 ft /s, $Q_{7,10}$ = 0 ft /s; $Q_{30,2}$ = 0.07 ft /s, $Q_{30,10}$ = 0 ft /s.

BASIS OF ESTIMATE.--Analytical correlation with 02233200 Little Econlockhatchee River near Union Park using 32 measurements made during 1983-89. Operated as a continuous-record streamflow station since 1983.

02233200 Little Econlockhatchee River near Union Park, Fla.

LOCATION.--Lat 28°31'29", long 81°14'39", in SW$\frac{1}{4}$ sec. 32, T.22 S., R.31 E., near bank at Berry-Deese Road, 3,300 feet upstream from a tributary, 3 miles south of Union Park, 8.5 miles east of Orlando, and 13 miles upstream from mouth.

COUNTY.--Orange.

HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--27.1 mi^2

TRIBUTARY TO.--Econlockhatchee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--September 1959 to October 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	2.3	2.6	2.9	3.0	4.5	5.3	5.8	7.3	10
10	.37	.49	.56	.63	.77	1.3	1.9	2.8	3.8

REMARKS.--Stream is unregulated. Significant upward trend in thc annual low-flows.

02233474 Little Econlockhatchee River at Iron Bridge Road near Oviedo, Fla.

LOCATION.--Lat 28°36'37", long 81°13'33", in NW$\frac{1}{4}$ sec. 4, T.22 S., R.31 E., at bridge on Iron Bridge Road, 4.2 miles south of Oviedo.

COUNTY.--Orange.

HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--70.0 mi^2.

TRIBUTARY TO.--Econlockhatchee River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 7.5 ft^3/s, $Q_{7,10}$ = 1.6 ft^3/s; $Q_{30,2}$ = 12 ft^3/s, $Q_{30,10}$ = 2.2 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02233500 Econlockhatchee River near Chuluota using 5 measurements made during 1944-81.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02233500 Econlockhatchee River near Chuluota, Fla.

LOCATION.--Lat 28°40'40", long 81°06'51", in SW$\frac{1}{4}$ sec. 10, T.21 S., R.32 E., at bridge on State Highway 13, 2.6 miles northeast of Chuluota, and 10 miles upstream from mouth.
COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--241 mi^2. TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1935 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	23	23	24	27	30	37	46	64	87
10	11	12	12	12	14	16	18	23	34

REMARKS.--Records include some flow diverted from Lake Mary Jane in the Kissimmee River basin through Disston Canal. Significant upward trend in annual low flows.

02233800 Silcox Branch near Chuluota, Fla.

LOCATION.--Lat 28°36'58", long 81°06'17", in SE$\frac{1}{4}$ sec. 34, T.21 S., R.32 E., on county road, 2.1 miles southeast of Chuluota.
COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--Not determined. TRIBUTARY TO.--Mills Creek.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft /s, $Q_{7,10}$ = 0 ft /s;$Q_{30,2}$ = -- ft /s, $Q_{30,10}$ = -- ft /s.
BASIS OF ESTIMATE.--Comparison of 2 observations of no flow (dry channel) with streamflow conditions at 02232200 Wolf Creek near Deer Park during 1961 and 1981.

02234000 St. Johns River above Lake Harney near Geneva, Fla.

LOCATION.--Lat 28°42'50", long 81°02'08", in NE$\frac{1}{4}$ sec.32, T. 20 S ., R. 33 E., at bridge on State Highway 46, 0.9 mile downstream from Econlockhatchee River, 1 mile upstream from Lake Harney, 5.5 miles southeast of Geneva, and 190 miles upstream from mouth.
COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--2,043 mi^2. TRIBUTARY TO.--Atlantic Ocean.
TYPE OF SITE.--Miscellaneous site, periodic measurement station and continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 237 ft^3/s, $Q_{7,10}$ = 56 ft^3/s;$Q_{30,2}$ = 284 ft^3/s, $Q_{30,10}$ = 73 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02232500 St. Johns River near Christmas using 111 measurements made during 1951-90.
REMARKS.--Operated as a continuous-record streamflow station since 1981.

02234010 St. Johns River at Osceola, Fla.

LOCATION.--Lat 28°47'37", long 81°03'29", in SE$\frac{1}{4}$ sec. 31, T.19 S., R.33 E., at abandoned railroad bridge, 0.7 mile southeast of Osceola.
COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--2,092 mi^2. TRIBUTARY TO.--Atlantic Ocean.
TYPE OF SITE.--Miscellaneous site and periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 390 ft^3/s, $Q_{7,10}$ = 140 ft^3/s;$Q_{30,2}$ = 460 ft^3/s, $Q_{30,10}$ = 170 ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02232500 St. Johns River nr Christmas using 6 measurements made during 1943-1985.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02234100 Deep Creek near Osteen, Fla.

LOCATION.--Lat 28°50'46", long 81°04'46", in NW$\frac{1}{4}$ sec.13, T. 19 S., R.32 E., on bank near bridge on Osteen-Maytown Road, 3.2 miles upstream from Cow Creek, 4.5 miles east of Osteen, and 5 miles upstream from mouth.
COUNTY.--Volusia. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--140 mi^2. TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1964 to September 1966 and October 1981 to September 1989.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.1	1.3	1.9	2.5	4.0	6.1	9.0	15	41
5	.27	.32	.43	.60	.95	1.8	2.4	4.5	14
10	.13	.15	.18	.26	.44	.92	1.2	2.2	6.4

ACCURACY.--$SE_{7,2}$ = 63 percent, $SE_{7,10}$ = 63 percent.
REMARKS.--Frequency estimates presented above represent the sum of flows of Deep Creek and Deep Creek diversion canal. Drainage area includes the total area drained by Deep Creek and Deep Creek diversion canal. The analysis presumes no active regulation, or if regulation did occur, that it was implemented in a systematic, consistent basis.

02234150 Cow Creek near Maytown, Fla.

LOCATION.--Lat 28°50'13", long 81°01'32", in SE$\frac{1}{4}$ sec.16, T.19 S., R.33 E. at bridge on county road, 2.7 miles upstream from mouth, 4.2 miles northwest of Maytown, and 8.2 miles east of Osteen.
COUNTY.--Volusia. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--14.8 mi^2. TRIBUTARY TO.--Deep Creek.
TYPE OF SITE.--Crest-stage partial-record station, periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 11 observations of zero flow, with streamflow conditions at 02234100 Deep Creek near Osteen during 1986-90.

02234324 Howell Creek nr Slavia, Fla.

LOCATION.--Lat 28°38'51", long 81°15'53", in SE$\frac{1}{4}$ sec.24, T.21 S., R.30 E., on bank near culvert on Red Bud Road, 2.1 miles west of Slavia, and 4.6 miles upstream from mouth.
COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--29.2 mi^2. TRIBUTARY TO.--Lake Jessup.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1972 to September 1979 and October 1981 to September 1989.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	5.0	5.5	6.0	7.0	8.0	12	12	13	17
10	1.7	1.9	1.9	2.2	2.6	3.0	4.7	5.8	11

REMARKS.--Some regulation by retention ponds upstream. Significant downward trend in annual low flows.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02234365 Soldier Creek Headwaters at Lake Mary, Fla.

LOCATION.--Lat 28°44'57", long 81°20'09", in NE$\frac{1}{4}$ sec. 17, T.20 S., R.30 E., at culverts on Longwood-Lake Mary Road at City of Lake Mary, 0.9 mile upstream from Seaboard Coast Line Railroad, and 3.6 miles upstream from mouth.

COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--7.86 mi^2. TRIBUTARY TO.--Lake Jessup.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = .02 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = .04 ft^3/s, $Q_{30,10}$ = .01 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02234400 Gee Creek near Longwood using 12 measurements, and 6 observations of zero flow. Operated as a continuous-record streamflow station since 1987.

02234367 Soldier Creek at Lake Mary, Fla.

LOCATION.--Lat 28°44'16", long 81°19'23", in NE$\frac{1}{4}$ sec. 21, T.20 S., R.30 E., at culverts on private road, 0.2 mile west of Country Club Road at city of Lake Mary, 0.3 mile downstream from Seaboard Coast Line Railroad, and 2.4 miles upstream from mouth.

COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--9.16 mi^2. TRIBUTARY TO.--Lake Jessup.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = .03 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = .05 ft^3/s, $Q_{30,10}$ = .01 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02234400 Gee Creek near Longwood using 14 measurements and 2 observations of zero flow (1, dry channel) made during 1987-1990.

02234384 Soldier Creek near Longwood, Fla.

LOCATION.--Lat 28°43'07", long 81°18'32", in SW$\frac{1}{4}$ sec. 27, T.20 S., R.30 E., at culvert on State Highway 419, 50 feet upstream from Seaboard Coast Line Railroad bridge, 1.2 miles upstream from mouth, and 2.5 miles northeast of Longwood.

COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--21.2 mi^2. TRIBUTARY TO.--Lake Jessup.

TYPE OF SITE.--Periodic measurement station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1.4 ft^3/s, $Q_{7,10}$ = 0.66 ft3/s; $Q_{30,2}$ = 1.8 ft3/s, $Q_{30,10}$ = .98 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02234400 Gee Creek near Longwood using 26 measurements made during 1985-1990.

REMARKS.--Operated as a continuous-record streamflow station since 1986.

02234386 County Home Run near Lake Mary, Fla.

LOCATION.--Lat 28°44'15", long 81°17'59", in NE$\frac{1}{4}$ sec. 22, T.20 S., R.30 E., 1.6 miles southeast of Lake Mary, 1.7 miles above mouth, and 4.5 miles south of Sanford.

COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--0.45 mi^2. TRIBUTARY TO.--Soldier Creek.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02234400 Gee Creek nr Longwood using 5 measurements and one observation of zero flow made during 1985-1986.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02234400 Gee Creek near Longwood, Fla.

LOCATION.--Lat 28°42'14", long 81°17'27", in SE$\frac{1}{4}$ sec. 38, T.20 S., R.30 E., at box culvert on State Highway 419, 700 feet upstream from Seaboard Coast Line Railroad bridge, 1.0 mile upstream from mouth, and 3.5 miles east of Longwood.
COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--12.8 mi^2. TRIBUTARY TO.--Lake Jessup.
TYPE OF SITE.--Periodic measurement station and continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1972 to September 1979 and October 1985 to September 1989.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.9	2.1	2.3	2.5	3.0	3.7	5.2	6.4	8.4
5	1.3	1.4	1.5	1.7	1.9	2.6	3.1	3.5	5.3
10	1.0	1.1	1.2	1.4	1.7	2.2	2.3	2.5	4.0
20	.86	.86	.98	1.2	1.5	1.9	1.9	1.9	3.2

ACCURACY.--$SE_{7,2}$ = 15 percent, $SE_{7,10}$ = 18 percent; $SE_{30,2}$ = 13 percent, $SE_{30,10}$ = 18 percent.
REMARKS.--Operated as a periodic measurement station during 1980-85.

02234990 Little Wekiva River near Altamonte Springs, Fla.

LOCATION.--Lat 28°41'13", long 81°23'50", in SE$\frac{1}{4}$ sec. 3, T.21 S., R.29 E., on bank near bridge on State Highway 434, 200 feet upstream from Sanlando Springs outlet, 2.9 miles northwest of Post Office in Altamonte Springs, and 5.5 miles upstream from mouth.
COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--90.7 mi^2. TRIBUTARY TO.--Wekiva River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1972 to September 1979 and October 1982 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	9.0	10	11	12	13	14	16	17	22
10	4.4	5.6	6.3	7.2	8.1	9.0	9.6	11	12

REMARKS.--Flow is unregulated. Significant upward trend in annual low flows.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02235000 Wekiva River near Sanford, Fla.

LOCATION.--Lat 28°48'54", long 81°25'10", in SE$\frac{1}{4}$ sec. 21, T.19 S., R.29 E., at bridge on State Highway 46, 4.5 miles downstream from Little Wekiva River,, 6.7 miles upstream from mouth, and 8.9 miles west of Sanford.

COUNTY.--Seminole. HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--189 mi^2. TRIBUTARY TO.--St. Johns River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1935 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	190	192	194	197	202	210	220	226	240
10	153	154	164	167	172	176	183	188	199

REMARKS.--Flow includes large ground water inflow. Flow is unregulated. Significant upward trend in annual low flows.

02236000 St. Johns River near De Land, Fla.

LOCATION.--Lat 19°00'29", long 81°22'58", in land grant 38, T. 17 S., R.29E., on Francis P. Whitehair Bridge on State Highway 44, 5 miles west of De Land, and 142 miles upstream from mouth.

COUNTY.--Lake. HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--3,066 mi^2. TRIBUTARY TO.--Atlantic Ocean.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1933 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	70	250	490	730	950	1120	1200	1300	1620
10	-2280	-1900	-870	-290	170	380	520	700	860

REMARKS.--Flow includes large ground water inflow. Flow is unregulated. Significant upward trend in annual low flows.

02236120 Deep Creek near Barberville, Fla.

LOCATION.--Lat 29°09'47", long 81°23'27", in SW$\frac{1}{4}$ sec. 27, T.15 S., R.29 E., at bridge on U. S. Highway 17, 2.1 miles upstream from mouth, and 2.5 miles southeast of Barberville.

COUNTY.--Volusia. HYDROLOGIC UNIT.--03080101.

DRAINAGE AREA.--35.4 mi^2. TRIBUTARY TO.--Lake Woodruff.

TYPE OF SITE.--Crest-stage partial-record station and periodic measurement station.

LOW-FLOW FREQUENCY.-- $Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 0. 20 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02244420 Little Haw Creek near Seville using 23 measurements made during 1984-90.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02236178 Willow Cove Branch near Seville, Fla.

LOCATION.--Lat 29°19'10", long 81°31'10", in SE$\frac{1}{4}$ sec. 36, T.13 S., R.27 E., at culvert on State Highway 305, 1.7 miles west of Seville.
COUNTY.--Volusia. HYDROLOGIC UNIT.--03080101.
DRAINAGE AREA.--4.0 mi^2. TRIBUTARY TO.--Lake George.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 1 observation of zero flow (dry channel) with streamflow conditions at 02244420 Little Haw Creek near Seville during 1967.

02236350 Green Swamp Run near Eva, Fla.

LOCATION.--Lat 28°18'39", long 81°41'08", in NW$\frac{1}{4}$ sec.14, T.25 S., R.26 E., at bank, near culverts on Sand Mine Road, 1.1 miles west of U.S. Highway 27, 9.1 miles east of Eva, and 12.8 miles upstream from mouth.
COUNTY.--Polk. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--43 mi^2, approximately. TRIBUTARY TO.--Big Creek.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1979 to September 1989.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0	0	0.25
5	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0

REMARKS.--No flow for many days most years; creek dry at gage for many days during 1981.

02236500 Big Creek near Clermont, Fla.

LOCATION.--Lat 28°26'51", long 81°44'25", in NE$\frac{1}{4}$ sec.31, T.23 S., R.26 E., at bank, near log bridge, 1 mile upstream from mouth at Lake Louisa, and 7.5 miles southeast of Clermont.
COUNTY.--Lake. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--68 mi^2, approximately. TRIBUTARY TO.--Lake Louisa.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1958 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.03	0.04	0.05	0.09	0.17	0.37	0.93	2.1	5.5
5	0	0	0	0	.02	.14	.28	.48	1.1
10	0	0	0	0	0	.06	.14	.20	.44
20	0	0	0	0	0	.03	.07	.08	.19

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02236700 Little Creek near Clermont, Fla.

LOCATION.--Lat 28°27'39", long 81°45'26", in NE$\frac{1}{4}$ sec.25, T.23 S., R.25 E., at culverts on Lake Nellie Road, 0.6 mile upstream from Lake Louisa, 2.3 miles east of State Highway 561, and 6.1 miles south of Clermont.
COUNTY.--Lake. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--14.7 mi^2. TRIBUTARY TO.--Lake Louisa.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1979 to September 1989.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0.17	0.32	0.63	3.8
5	0	0	0	0	0	0	0	.05	.22
10	0	0	0	0	0	0	0	.01	.02

02236900 Palatlakaha River at Cherry Lake Outlet, near Groveland, Fla.

LOCATION.--Lat 28°35'33", long 81°49'21", in NE$\frac{1}{4}$ sec.8, T.22 S., R.25 E., near bank 21 feet upstream from spillway at outlet of Cherry Lake, and 3 miles northeast of Groveland.
COUNTY.--Lake. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--165 mi^2. TRIBUTARY TO.--Lake Harris.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1957 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0	0	0	0	2.5
10	0	0	0	0	0	0	0	0	0

REMARKS.-- Since 1956, flow regulated by earthen dam and concrete spillway with radial lift gates at outlet. An undetermined amount of water is diverted at times through a gated culvert in dam for irrigation of citrus groves.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02237000 Palatlakaha River near Mascotte, Fla.

LOCATION.--Lat 28°36'56", long 81°51'53", in SW$\frac{1}{4}$ sec.36, T.21 S., R.24 E., at bank 260 feet upstream from spillway, 0.4 mile downstream from bridge on State Highway 565, and 3.2 miles northeast of Mascotte.
COUNTY.--Lake. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--182 mi^2. TRIBUTARY TO.--Lake Harris.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1945 to September 1955.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	14	14	14	17	18	24	28	36	43
5	2.5	2.5	2.6	3.3	4.6	6.0	6.6	8.6	18
10	.85	.90	.95	1.2	1.8	2.4	2.5	3.2	9.0
20	.28	.37	.40	.42	.80	.92	1.0	1.3	5.0

REMARKS.--Flow was regulated through two box culverts with radial lift gates from March 1956 to December 1963. Flow regulated at station by manipulation of gates in spillway since Dec. 4, 1963.

02237293 Palatlakaha River at Structure M-1, near Okahumpka, Fla.

LOCATION.--Lat 28°44'39", long 81°52'22", in SE$\frac{1}{4}$ sec.14, T.20 S., R.24 E., on bank 150 feet upstream from structure M-1, 270 feet downstream from Seaboard Coast Line Railroad bridge, 0.3 mile upstream from bridge on State Highway 48, and 1.4 miles east of Okahumpka.
COUNTY.--Lake. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--221 mi^2 TRIBUTARY TO.--Lake Harris.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1971 to September 1975 and October 1976 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0.23	0.61	1.1	1.2	1.6
10	0	0	0	0	0	0	0	.01	.05

REMARKS.-- Flow regulated by manipulation of gates in spillway.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02237700 Apopka-Beauclair Canal near Astatula, Fla.

LOCATION.--Lat 28 43'20", long 81 41'06", in NW$\frac{1}{4}$ sec.26, T.20 S., R.26 E., near bank 80 feet upstream from lock and dam, 00 feet upstream from bridge on county road 48, and 3 miles east of Astatula.
COUNTY.--Lake. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--184 mi^2 TRIBUTARY TO.--Lake Beauclair.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1958 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	10	16	17	17	17	23	25	25	29
10	0	0	0	0	0	.02	.03	.04	8.2

REMARKS.--Since May 1956, flow regulated at station by manipulation of gates in spillway. Significant upward trend in annual low flows.

02238000 Haines Creek at Lisbon, Fla.

LOCATION.--Lat 28 52'14", long 81 47'02", in NW$\frac{1}{4}$ sec.2, T.19 S., R.25 E., on bank at upstream side of Burrell lock and dam, 900 feet upstream from bridge on State Highway 44, 0.2 mile south of Lisbon, and 7 miles northeast of Leesburg.
COUNTY.--Lake. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--648 mi^2. TRIBUTARY TO.--Lake Griffin.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1957 to September 1978 and October 1985 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	27	27	27	27	27	28	32	48	93
10	.80	.80	1.3	2.8	3.0	5.5	9.8	11	21

REMARKS.--Since May 1956, flow regulated at station by manipulation of gates in spillway.

02238500 Oklawaha River at Moss Bluff, Fla.

LOCATION.--Lat 29°04'52", long 81°52'51", in SW$\frac{1}{4}$ sec.23, T.16 S., R.24 E., at downstream side of spillway structure of Moss Bluff Dam, 0.3 mile upstream from bridge on State Highway 464, 0.4 mile southwest of Moss Bluff, 3.9 miles northeast of Oklawaha, and 64.3 miles upstream from mouth.
COUNTY.--Marion. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--879 mi^2. TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1968 to September 1988.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	14	15	18	21	24	25	26	29	42
10	0	0	.80	1.0	1.2	4.9	9.2	14	26

REMARKS.--Flow regulated by manipulation of spillway. Significant downward trend in annual low flows.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02239000 Oklawaha River near Ocala, Fla.

LOCATION.--Lat 29°11'" long 82°00', in sec.15, T.15 S., R.23 E., on bank near highway bridge known as Sharpes Ferry, 2 miles upstream from Silver River, and 9 miles east of Ocala.

COUNTY.--Marion.

HYDROLOGIC UNIT.--03080102.

DRAINAGE AREA.--1,018 mi^2.

TRIBUTARY TO.--St. Johns River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1930 to September 1967.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	101	105	116	123	134	156	181	216	288
5	35	39	43	46	53	64	78	100	138
10	18	20	22	23	28	32	43	58	82
20	9.3	10	12	13	14	17	22	30	45
50	3.8	4.3	4.7	5.5	6.0	7.0	7.5	10	13

REMARKS.--Low flow regulated at Moss Bluff Dam 12 miles above station.

02239500 Silver Springs near Ocala, Fla.

LOCATION.--Lat 29°12'44", long 82°03'15", in SE$\frac{1}{4}$ sec.1, T.15 S., R.23 E., in canal at glass bottom boat docking shed, 1,400 feet downstream from head of springs, and 5.3 miles northeast of Ocala.

COUNTY.--Marion.

HYDROLOGIC UNIT.--03080102.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Silver River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1934 to March 1989.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	700	702	704	707	712	720	728	737	764
5	630	632	634	636	640	646	652	660	680
10	599	600	602	604	607	612	618	624	642
20	574	576	577	579	582	586	591	598	612
50	530	530	530	530	530	540	545	545	560

ACCURACY.--$SE_{7,2}$ = 2 percent, $SE_{7,10}$ = 3 percent; $SE_{30,2}$ = 2 percent, $SE_{30,10}$ = 3 percent.

REMARKS.--Flow is springflow only.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02240000 Oklawaha River near Conner, Fla.

LOCATION.--Lat 29°12'52", long 81°59'10", in SW$\frac{1}{4}$ sec. 2, T.15 S., R.23 E., on bank 75 feet upstream from bridge on State Highway 40, 0.2 mile downstream from Silver River, 1.5 miles southwest of Conner, 8 miles east of Ocala, and 51 miles upstream from mouth.
COUNTY.--Marion. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--1,196 mi^2. TRIBUTARY TO.--Oklawaha Lake.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1978 to September 1988.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	736	736	740	744	748	760	770	782	818
5	698	699	702	704	707	715	725	733	786
10	635	637	640	642	644	655	664	674	701
20	623	625	628	629	631	643	651	663	680

REMARKS.--Some effect from regulation at Moss Bluff Dam 13.3 miles upstream.

02240105 Daisy Creek near Fort McCoy, Fla.

LOCATION.--Lat 29°18'54", long 81°58'23", in SW$\frac{1}{4}$ sec. 35, T.13 S., R.23 E., at culverts on State Highway 315, 2.4 miles northeast of Burbank, and 3.4 miles upstream from mouth.
COUNTY.--Marion. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--11.4 mi^2. TRIBUTARY TO.--Oklawaha River.
TYPE OF SITE.--Low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 18 observations of zero flow with streamflow conditions at 02243000 Orange Creek at Orange Springs and 02239500 Silver Springs near Ocala during 1984-90.

02240500 Oklawaha River at Eureka, Fla.

LOCATION.--Lat 29°22'18", long 81°54'07", in SW$\frac{1}{4}$ sec.9, T.13 S., R.24 E., on pier of bridge on County Road 316 in Eureka, 3.1 miles downstream from Eaton Creek, and 33.1 miles upstream from mouth.
COUNTY.--Marion. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--1,367 mi^2. TRIBUTARY TO.--St. Johns River..
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1930 to September 1934, October 1943 to September 1952, and October 1981 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	879	903	912	922	944	983	1010	1050	1130
5	739	744	750	758	771	794	815	837	888
10	663	669	673	681	690	706	720	736	773
20	605	610	614	621	628	638	647	659	685

ACCURACY.--$SE_{7,2}$ = 6 percent, $SE_{7,10}$ = 6 percent; $SE_{30,2}$ = 6 percent, $SE_{30,10}$ = 7 percent.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02240902 Prairie Creek near Gainesville, Fla.

LOCATION.--Lat 29°36'41", long 82°14'56", in NW$\frac{1}{4}$ sec.19, T.10 S., R.21 E., at bridge on State Highway 20, 50 feet downstream from control at outlet of Newnans Lake, 7 miles southeast of Gainesville, and 8.4 miles upstream from mouth.
COUNTY.--Alachua.
HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--114 mi^2.
TRIBUTARY TO.--Orange Lake.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1979 to September 1990.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	2.7	2.8	2.8	4.3	5.0	5.4	5.8	7.6	16
10	.35	.37	.37	.40	.58	.71	.97	1.2	3.4

REMARKS.--Some regulation by stoplogs control 50 ft. upstream.

02240954 Hogtown Creek near Arredondo, Fla.

LOCATION.--Lat 29°38'17", long 82°23'33", in NE$\frac{1}{4}$ sec.10, T.10 S., R.19 E., at bank near bridge on county road 30, 2.5 miles northeast of Arredondo, and 4.2 miles west of Gainesville.
COUNTY.--Alachua.
HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--41.2 mi^2.
TRIBUTARY TO.--Haile Sink.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1973 to March 1991.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	2.6	2.7	2.9	3.3	4.2	5.5	7.2	7.9	11
10	.62	.65	.76	.94	1.2	2.5	3.8	4.6	6.7

REMARKS.--Flow is unregulated. Significant downward trend in annual low flows.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02241000 Camps Canal near Rochelle, Fla.

LOCATION.--Lat 29°34'33", long 82°15'00", in SW$\frac{1}{4}$ sec.31, Moses Levy land grant, at bridge on county road 234, 2.2 miles southwest of Rochelle, and 5 miles upstream from mouth.
COUNTY.--Alachua.
HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--775 mi^2.
TRIBUTARY TO.--Orange Lake.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1978 to September 1988.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	2.1	2.3	2.6	3.6	5.0	7.0	7.5	8.4	22
10	.06	.06	.08	.22	.36	.50	.76	1.1	2.5

REMARKS.--Seasonal diversion out of or into canal above station by drainage and/or pumpage for irrigation of pastures in Paynes Prairie. Drainage area includes Paynes Prairie, a diked sinkhole area of 650 mi^2, approximately, which is noncontributing except by pumpage.

02242500 Lochloosa Slough near Lochloosa, Fla.

LOCATION.--Lat 29°29'17", long 82°06'07", in SW$\frac{1}{4}$ sec.34, T.11 S., R.22 E., near bank at upstream side of culverts on U.S. Highway 301, 1.2 miles south of Lochloosa, and 2.4 miles north of Island Grove.
COUNTY.--Alachua.
HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--Indeterminate.
TRIBUTARY TO.--Orange Creek.
TYPE OF SITE.--Continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.
BASIS OF ESTIMATE.--No flow for many days in most years. Zero flows occurred for thirty consecutive days in nine of the years during 1948-55 and 1984-89.

02243000 Orange Creek at Orange Springs, Fla.

LOCATION.--Lat 29°30'34", long 81°56'47", in NE$\frac{1}{4}$ sec.25, T.11 S., R.23 E., near bank at bridge on State Highway 21, 0.2 mile northwest of Orange Springs, and 1.2 miles upstream from Little Orange Creek.
COUNTY.--Marion.
HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--1,119 mi^2.
TRIBUTARY TO.--Oklawaha River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1943 to March 1952, April 1956 to March 1971, and April 1976 to March 1989.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	12	13	14	15	18	24	29	37	61
5	4.6	4.8	5.1	5.5	6.6	8.8	11	14	24
10	2.8	2.9	3.1	3.3	3.9	5.3	6.3	8.0	14
20	1.9	1.9	2.0	2.2	2.5	3.5	4.1	5.2	9.7

ACCURACY.--$SE_{7,2}$ = 22 percent, $SE_{7,10}$ = 32 percent; $E_{30,2}$ = 22 percent, $SE_{30,10}$ = 30 percent.
REMARKS.--Drainage area includes Paynes Prairie, a diked sinkhole area of 650 mi^2, approximately, which is noncontributing except by pumpage.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02243960 Oklawaha River at Rodman Dam near Orange Springs, Fla.

LOCATION.--Lat 29°30'30", long 81°48'15", in NW$\frac{1}{4}$ sec.28, T.11 S., R.25 E., at downstream side of control structure of Rodman Dam, 8.4 miles east of Orange Springs, and 11.6 miles upstream from mouth.
COUNTY.--Putnam. HYDROLOGIC UNIT.--03080102.
DRAINAGE AREA.--2,747 mi^2. TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1969 to September 1989.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	426	469	474	591	693	843	945	1020	1080
10	187	241	242	276	333	395	460	506	703

REMARKS.--Flow regulated by manipulation of gates in spillway; dam completed and flow through spillway began September 1968. Since November 1969, diversion above station from Lake Ocklawaha for boat lockage, through Cross-Florida Barge Canal to St. Johns River. Significant downward trend in annual low flows.

02244100 Sweetwater Branch near Bunnell, Fla.

LOCATION.--Lat 29°25'10", long 81°18'00", in NW$\frac{1}{4}$ sec. 32, T.12 S., R.30 E., at bridge on State Highway 11, 4 miles southwest of Bunnell.
COUNTY.--Flagler. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--11.1 mi^2. TRIBUTARY TO.--Haw Creek.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 4 observations of zero flow with streamflow conditions at 02244320 Middle Haw Creek near Korona, 02244420 Little Haw near Seville, and 02247510 Tomoka River near Holly Hill during 1956, 1965, 1967, and 1980.

02244150 Black Branch nr Bunnell, Fla.

LOCATION.--Lat 29°26'50", long 81°16'30", in NE$\frac{1}{4}$ sec. 21, T.12 S., R.30 E., at bridge on State Highway 11, 1.8 miles southwest of Bunnell.
COUNTY.--Flagler. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--14.5 mi^2. TRIBUTARY TO.--Haw Creek.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 3 observations of zero flow (2, dry channels) with streamflow conditions at 0224320 Middle Haw Creek near Korona, 02244420 Little Haw Creek near Seville, and 02247510 Tomoka River near Holly Hill during 1956, 1967, and 1980.

02244200 Haw Creek nr Bunnell, Fla.

LOCATION.--Lat 29°24'10", long 81°21'10", on line between secs. 2 and 3, T.13 S., R.29 E., at bridge on State Highway 305, 7.2 miles west of Bunnell.
COUNTY.--Flagler. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--109 mi^2. TRIBUTARY TO.--Crescent Lake.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 *ft^3/s, $Q_{7,10}$ = 0 *ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 4 observations of zero flow (or negative flow) with streamflow conditions at 02244320 Middle Haw Creek near Korona, 02244420 Little Haw near Seville, and 02247510 Tomoka River near Holly Hill during 1956, 1958, 1967, and 1980.
REMARKS.--The measurement notes indicate that this site is tidally affected; values may be negative.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02244320 Middle Haw Creek near Korona, Fla.

LOCATION.--Lat 29°21'35", long 81°18'42", in NW$\frac{1}{4}$ sec.19, T.13 S., R.30 E., at bridge on State Highway 11, 1.2 miles north of Codys Corner and 7.7 miles southwest of Korona.
COUNTY.--Flagler.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--78.3 mi^2.
TRIBUTARY TO.--Crescent Lake.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1975 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0.47	1.9	6.0	23
5	0	0	0	0	0	.04	.20	.60	3.0
10	0	0	0	0	0	0	.06	.13	.67
20	0	0	0	0	0	0	.02	.04	.13

02244330 Middle Haw Creek near Bunnell, Fla.

LOCATION.--Lat 29°22'10", long 81°21'10", in SE$\frac{1}{4}$ sec. 10, T.13 S., R.29 E., at bridge on State Highway 305, 8.0 miles southwest of Bunnell.
COUNTY.--Flagler.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--86.6 mi^2.
TRIBUTARY TO.--Crescent Lake.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 0$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.
BASIS OF ESTIMATE.--Comparison of 4 observations of zero flow with streamflow conditions at 02244420 Little Haw Creek near Seville during 1956, 1958, 1965 and 1967.

02244420 Little Haw Creek near Seville, Fla.

LOCATION.--Lat 29°19'20", long 81°23'10", in SE$\frac{1}{4}$ sec.32, T.13 S., R.29 E., on bank near bridge on State Highway 305, 1.4 miles downstream from Lake Disston, and 6.4 miles east of Seville.
COUNTY.--Flagler.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--93.0 mi^2.
TRIBUTARY TO.--Haw Creek.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1951 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.0	1.0	1.2	1.3	1.7	3.1	4.7	8.6	21
5	.22	.23	.23	.38	.43	.68	1.2	2.5	6.0
10	0	0	0	0	.14	.31	.60	1.2	2.8
20	0	0	0	0	.06	.14	.32	.67	1.5
50	0	0	0	0	0	.04	.16	.33	.70

ACCURACY.--$SE_{7,2}$ = 26 percent; $SE_{30,2}$ = 34 percent, $SE_{30,10}$ = 32 percent.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02244450 St. Johns River near Palatka, Fla.

LOCATION.--Lat 29°35'46", long 81°36'29", in NW$\frac{1}{4}$ sec.30, T.10 S., R.27 E., near bank at Edgewater Light 13, 1.4 miles downstream from Dunns Creek, 5.0 miles southeast of Palatka, and 84 miles upstream from mouth.
COUNTY.--Putnam. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--7,094 mi^2. TRIBUTARY TO.--Atlantic Ocean.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1968 to September 1975, October 1976 to September 1979, and October 1980 to September 1982.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	-11300	-7880	-3035	-720	-886	2160	3275	3760	4450
5	-14540	-9904	-5150	-2608	-718	204	551	795	1480
10	-16860	-10560	-6360	-3690	-2551	-1443	-958	-144	614
20	-17700	-10800	-6750	-3750	-2860	-1750	-1220	-196	282

REMARKS.--Flow affected by tidal fluctuations.

02244473 Rice Creek near Springside, Fla.

LOCATION.--Lat 29°41'17", long 81°44'32", in land grant 40, T.9 S., R.26 E., on bank near bridge on State Highway 100, 1.8 miles northwest of Springside, 5.9 miles northwest of Palatka, and 7.5 miles upstream from mouth.
COUNTY.--Putnam. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--43.2 mi^2. TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1973 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	3.4	3.5	3.7	4.1	4.6	5.7	7.5	10	21
5	2.7	2.8	3.0	3.2	3.5	4.2	5.0	6.4	14
10	2.4	2.5	2.7	2.9	3.1	3.5	4.1	5.0	11
20	2.2	2.3	2.5	2.6	2.8	3.1	3.5	4.1	9.5

ACCURACY.--$SE_{7,2}$ = 7 percent, $SE_{7,10}$ = 12 percent; $SE_{30,2}$ = 9 percent, $SE_{30,10}$ = 17 percent.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02245050 Etonia Creek at Bardin, Fla.

LOCATION.--Lat 29°43'00", long 81°43'31", in NW$\frac{1}{4}$ sec. 17, T.9 S., R.26 E., at bridge on Bardin Road, 0.2 mile north of Bardin, 4.6 miles upstream from mouth, and 6.2 miles northwest of Palatka.
COUNTY.--Putnam.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--219 mi^2.
TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1973 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	47	48	49	51	53	57	61	67	79
10	38	40	42	43	46	50	51	56	62

REMARKS.--Records include an appreciable amount of ground-water flow from Hudson Pulp and Paper Corporation production wells.

02245100 Simms Creek near West Tocoi, Fla.

LOCATION.--Lat 29°50'16", long 81°42'22", in SW$\frac{1}{4}$ sec. 33, T.7 S., R.26 E., at bridge on State Highway 214, 5.0 miles west of West Tocoi.
COUNTY.--Clay.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--4.33 mi^2.
TRIBUTARY TO.--Etonia Creek.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 3 observations of zero flow with streamflow conditions at 02245500 South Fork Black Creek near Penny Farms during 1956, 1965, and 1967.

02245140 Simms Creek nr Bardin, Fla.

LOCATION.--Lat 29°44'07", long 81°42'36", in NE$\frac{1}{4}$ sec.9, T.9 S., R.26 E., on bank 0.4 mile downstream from bridge on Simms Creek Road, 1.7 miles northeast of Bardin, 2.7 miles upstream from Etonia Creek, and 6.7 miles northwest of Palatka.
COUNTY.--Putnam.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--47.3 mi^2.
TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1973 to September 1975 and October 1976 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	7.6	7.8	8.1	8.8	9.8	11	14	18	27
5	6.7	6.8	7.2	7.7	8.5	9.4	10	13	18
10	6.2	6.4	6.7	7.1	7.8	8.4	9.0	11	15
20	5.9	6.0	6.3	6.6	7.2	7.7	8.0	9.1	13

ACCURACY.--$SE_{7,2}$ = 4 percent, $SE_{7,10}$ = 5 percent; $SE_{30,2}$ = 4 percent, $SE_{30,10}$ = 4 percent.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02245255 Deep Creek near Hastings, Fla.

LOCATION.--Lat 29°40'52" long 81°26'56", in NW$\frac{1}{4}$ sec. 35, T.9 S., R.28 E., at bridge on county road, 1.3 miles upstream from Sixteenmile Creek, and 4.2 miles southeast of Hastings.
COUNTY.--St. Johns.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--20.7 mi^2.
TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1975 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0.06	0.08	0.17	0.45	0.79	1.4	3.1
5	0	0	0	0	.09	.24	.42	.72	1.8
10	0	0	0	0	.06	.18	.30	.50	1.3
20	0	0	0	0	.05	.14	.22	.38	.97

ACCURACY.--$SE_{30,2}$ = 16 percent, $SE_{30,10}$ = 22 percent.

02245265 Cracker Branch at Hastings, Fla.

LOCATION.--Lat 29°42'50", long 81°31'00", in SE$\frac{1}{4}$ sec. 18, T.9 S., R.28 E., at bridge on State Highway 207, 0.5 mile west of Hastings.
COUNTY.--St. Johns.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.-- 14.8 mi^2.
TRIBUTARY TO.--Deep Creek.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s; $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 3 observations of zero flow with streamflow conditions at 02246900 Moultrie Creek at State Highway 207 near St. Augustine during 1958, 1965, and 1967.

02245315 Sixmile Creek at Bakersville, Fla.

LOCATION.--Lat 29°54'40", long 81°29'30", in NW$\frac{1}{4}$ sec. 23, T.7 S., R.27 E., st bridge on State Highway 13A, 0.3 mile north of Bakersville.
COUNTY.--St. Johns.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--47.2 mi^2.
TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 2 observations of zero flow with streamflow conditions at 02246900 Moultrie Creek at State Highway 207 near St. Augustine and 02247000 Moultrie Creek near St. Augustine during 1958 and 1967.

02245325 Mill Creek near Bakersville, Fla.

LOCATION.--Lat 29°57'00", long 81°29'40", in land grant 38, T.6 S., R.28 E., at culvert on State Highway 16, 4.0 miles north of Bakersville.
COUNTY.--St. Johns.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--8.88 mi^2.
TRIBUTARY TO.--Sixmile Creek.
TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.
LOW-FLOW FREQUENCY.-- $Q_{7,2}$ = 0.07 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.16 ft^3/s, $Q_{30,10}$ = 0.07 ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02245255 Deep Creek near Hastings using 4 measurements made during 1983-87.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02245430 Ates Creek near Penny Farms, Fla.

LOCATION.--Lat 29°56'10", long 81°52'15", in NE$\frac{1}{4}$ sec. 35, T.6 S., R.24 E., 1.7 miles above mouth and 4.9 miles southwest of Penney Farms.

COUNTY.--Clay.

HYDROLOGIC UNIT.--03080103.

DRAINAGE AREA.--40.8 mi^2.

TRIBUTARY TO.--South Fork Black Creek.

TYPE OF SITE.--Crest-stage partial-record station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 3.5 ft^3/s, $Q_{7,10}$ = 2.0 ft^3/s; $Q_{30,2}$ = 4.9 ft^3/s, $Q_{30,10}$ = 2.6 ft^3/s.

BASIS OF ESTIMATE.--Analytical regression with 02245500 South Fork Black Creek near Penny Farms using 19 measurements made during 1957-1967.

ACCURACY.--$SE_{7,2}$ = 40 percent, $SE_{7,10}$ = 45 percent; $SE_{30,2}$ = 38 percent, $SE_{30,10}$ = 43 percent.

02245500 South Fork Black Creek near Penney Farms, Fla.

LOCATION.--Lat 29°58'45", long 81°51'08", in NE$\frac{1}{4}$ sec. 13, T.6 S., R.24 E., at bridge on State Highway 16, 0.7 mile downstream from Greens Creek, 2.5 miles west of Penney Farms, 9.5 miles west of Green Cove Springs, and 24 miles upstream from mouth of Black Creek.

COUNTY.--Clay.

HYDROLOGIC UNIT.--03080103.

DRAINAGE AREA.--134 mi^2.

TRIBUTARY TO.--Black Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1939 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	23	24	25	27	32	40	53	66	90
5	17	17	18	20	23	28	36	44	57
10	14	14	16	17	20	23	29	35	45
20	12	12	14	15	17	20	25	29	36
50	10	10	11	13	14	17	21	24	28

ACCURACY.--$SE_{7,2}$ = 6 percent, $SE_{7,10}$ = 6 percent; $SE_{30,2}$ = 6 percent, $SE_{30,10}$ = 7 percent.

02245850 Long Branch at Maxville, Fla.

LOCATION.--Lat 30°12'03", long 82°01'06", in SE$\frac{1}{4}$ sec.29, T.3 S., R.23 E., at culvert on State Highway 228, 0.3 mile west of Maxville and 5.5 miles upstream from mouth

COUNTY.--Duval.

HYDROLOGIC UNIT.--03080103.

DRAINAGE AREA.--8.53 mi^2.

TRIBUTARY TO.--North Fork Black Creek.

TYPE OF SITE.--Crest-stage partial-record station, periodic measurement station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.02 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.07 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02230000 Turkey Creek at Macclenny using 15 measurements made during 1965-1967.

ACCURACY.--$SE_{30,2}$ = 240 percent, $SE_{30,10}$ = 300 percent.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02245900 Yellow Water Creek near Maxville, Fla.

LOCATION.--Lat 30°13'44", long 81°55'17", in NE$\frac{1}{4}$ sec. 20, T.3 S., R.24 E., at bridge on State Highway 228, 5.8 miles northeast of Maxville, 7.1 miles upstream from mouth and 7.2 miles southeast of Jacksonville.

COUNTY.--Duval.

HYDROLOGIC UNIT.--03080103.

DRAINAGE AREA.--21.9 mi^2.

TRIBUTARY TO.--North Fork Black Creek.

TYPE OF SITE.--Crest-stage partial-record station, periodic measurement station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.25$ ft^3/s, $Q_{7,10} = 0.10$ ft^3/s; $Q_{30,2} = 0.43$ ft^3/s, $Q_{30,10} = 0.19$ ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02230000 Turkey Creek at Macclenny using 12 measurements made during 1958-1969.

ACCURACY.--$SE_{30,2} = 66$ percent, $SE_{30,10} = 75$ percent.

02246000 North Fork Black Creek near Middleburg, Fla.

LOCATION.--Lat 30°06'47", long 81°54'24", in NE$\frac{1}{4}$ sec. 33, T.4 S., R.24 E., at bank 0.3 mile upstream from Big Branch, 4 miles northwest of Middleburg, and 7.5 miles upstream from confluence with South Fork.

COUNTY.--Clay.

HYDROLOGIC UNIT.--03080103.

DRAINAGE AREA.--177 mi^2.

TRIBUTARY TO.--Black Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1931 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	14	15	16	18	23	33	46	65	96
5	8.5	8.8	9.4	11	14	19	26	35	52
10	6.4	6.6	7.2	8.3	11	14	19	25	37
20	4.9	5.1	5.6	6.4	8.2	11	14	18	27
50	3.7	3.8	4.2	4.8	6.0	9.7	9.7	12	20

ACCURACY.--$SE_{7,2} = 8$ percent, $SE_{7,10} = 8$ percent; $SE_{30,2} = 8$ percent, $SE_{30,10} = 8$ percent.

REMARKS.--Streamflow affected by tide some days.

02246100 Julington Creek near Greenland, Fla.

LOCATION.--Lat 30°11'19", long 81°33'45", in land grant 50, T.4 S., R.27 E., at culvert on U. S. Highway 1, 1.5 miles northwest of Greenland, and 11 miles upstream from mouth.

COUNTY.--Duval.

HYDROLOGIC UNIT.--03080103.

DRAINAGE AREA.--8.90 mi^2.

TRIBUTARY TO.--St. Johns River.

TYPE OF SITE.--Continuous-record gaging station, crest-stage partial-record station, and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 1.2$ ft^3/s, $Q_{7,10} = 0.52$ ft^3/s; $Q_{30,2} = 1.6$ ft^3/s, $Q_{30,10} = 0.66$ ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02246828 Pablo Creek at Jacksonville using 19 measurements made during 1974-1987.

REMARKS.--Operated as a continuous-record streamflow station during 1965-66.

Table 11. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02246110 Sweetwater Creek near Greenland, Fla.

LOCATION.--Lat 30°10'03", long 81°32'29", in SE$\frac{1}{4}$ sec. 12, T.4 S., R.27 E., at culvert on U. S. Highway 1, 0.3 mile southeast of Greenland.

COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.

DRAINAGE AREA.--4.9 mi^2. TRIBUTARY TO.--Julington Creek.

TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = --ft^3/s, $Q_{7,10}$ = --ft^3/s; $Q_{30,2}$ = 0.42 ft^3/s, $Q_{30,10}$ = --ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02246150 Big Davis Creek at Bayard using 5 measurements made during 1967-1987.

02246150 Big Davis Creek at Bayard, Fla.

LOCATION.--Lat 30°09'05", long 81°31'35", in land grant 37, T.4 S., R.28 E., at culvert on U. S. Highway 1, 0.8 mile northwest of Bayard, 2.0 mile upstream from mouth, and 14.8 miles southeast of Union Station in Jacksonville.

COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.

DRAINAGE AREA.--13.6 mi^2. TRIBUTARY TO.--St. Johns River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1966 to September 1969 and October 1974 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.67	0.70	0.77	0.95	1.2	1.7	2.5	3.6	5.2
5	.29	.33	.39	.47	.63	.98	1.4	1.8	3.1
10	.17	.20	.27	.30	.44	.73	.89	1.1	2.3
20	.10	.14	.19	.20	.32	.56	.60	.70	1.7

ACCURACY.--$SE_{7,2}$ = 19 percent, $SE_{7,10}$ = 20 percent; $SE_{30,2}$ = 20 percent, $SE_{30,10}$ = 21 percent.

02246199 Durbin Creek at U.S. 1 near Durbin, Fla.

LOCATION.--Lat 30°05'54", long 81°28'22", in NE$\frac{1}{4}$ sec. 3, T.5 S., R.28 E., at bridge on U. S. Highway 1, and 1 mile northwest of Durbin.

COUNTY.--St. Johns. HYDROLOGIC UNIT.--03080103.

DRAINAGE AREA.--Not determined. TRIBUTARY TO.--Julington Creek.

TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 3 observations of no flow (dry channel) with streamflow conditions at 02246150 Big Davis Creek at Bayard, 02246828 Pablo Creek at Jacksonville, and 02246832 Cedar Swamp Creek near Jacksonville during 1986-87.

Table 11. Low-Flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02246202 Cormorant Branch near Mandarin, Fla.

LOCATION.--Lat 30°08'56", long 81°37'43", in NE$\frac{1}{4}$ sec. 20, T.3 S., R.27 E., at bridge on Marbon Road, 1.1 miles upstream from mouth, and 2.1 miles southeast of Mandarin.
COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--1.62 mi^2. TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Periodic measurement station, crest-stage partial-record station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.12 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 0.22 ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02246150 Big Davis Creek nr Bayard using 20 measurements made during 1975-1987.
ACCURACY.--$SE_{7,2}$ = 274 percent; $SE_{30,2}$ = 224 percent.

02246300 Ortega River at Jacksonville, Fla.

LOCATION.--Lat 30°14'50", long 81°47'49", in NW$\frac{1}{4}$ sec. 15, T.3 S., R.25 E., at bridge on 103rd Street in Jacksonville, 15 miles upstream from mouth.
COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--30.9 mi^2. TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1965 to March 1983 and April 1985 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.97	1.0	1.3	1.6	2.3	3.3	6.0	9.5	18
5	.38	.39	.40	.67	1.3	2.0	3.1	4.6	9.6
10	.20	.20	.17	.38	.98	1.6	2.1	2.8	6.4
20	0	0	.07	.23	.78	1.4	1.5	1.6	4.4

ACCURACY.--$SE_{7,2}$ = 39 percent, $SE_{7,10}$ = 34 percent; $SE_{30,2}$ = 17 percent, $SE_{30,10}$ = 24 percent.

02246455 South Fork Wills Branch near Marietta, Fla.

LOCATION.--Lat 30°17'05", long 81°46'05", in NE$\frac{1}{4}$ sec. 35, T.2 S., R.25 E., at culvert on State Highway 213, 0.7 mile upstream from mouth, and 2.5 miles southeast of Marietta.
COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--2.00 mi^2. TRIBUTARY TO.--Cedar River.
TYPE OF SITE.--Crest-stage partial-record station, miscellaneous site and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.28 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 0.61 ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02246300 Ortega River at Jacksonville using 7 measurements made during 1965-1987.
REMARKS.--Values for the frequency characteristics may be larger than expected under natural conditions, due to the discharge at a wastewater treatment plant upstream.

02246550 Pottsburg Creek near South Jacksonville, Fla.

LOCATION.--Lat 30°15'50", long 81°35'25", in land grant 56, T.3 S., R.27 E., at bridge on Bowden Road, 700 feet downstream from Bennet Branch, 5.7 miles upstream from Silversmith Creek, and 6.4 miles southeast of Union Station in Jacksonville.
COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--9.89 mi^2. TRIBUTARY TO.--Arlington River.
TYPE OF SITE.--Crest-stage partial-record station, periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.53 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 1.7 ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02246832 Cedar Swamp Creek near Jacksonville using 6 measurements made during 1978-87.

Table 11. Low-Flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02246645 Sixmile Creek at Pickettville, Fla.

LOCATION.--Lat 30°21'46", long 81°46'24", in NE$\frac{1}{4}$ sec. 2, T.2 S., R.25 E., at bridge on Imeson Road, 2.7 miles upstream from mouth, and 1.0 mile west of Pickettville.
COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--12.1 mi^2. TRIBUTARY TO.--Ribault River.
TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.15 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 0.42 ft^3/s, $Q_{30,10}$ = 0.08 ft^3/s.
BASIS OF ESTIMATE.--Graphical regression with 02231280 Thomas Creek near Crawford using 4 measurements made during 1974-1986.

02246750 Cedar Creek near Panama Park, Fla.

LOCATION.--Lat 30°27'30", long 81°40'49", in SW$\frac{1}{4}$ sec. 35, T.1 N., R.26 E., 1.2 miles upstream from Pickett Branch, 3.6 miles upstream from Broward River and confluence of Cedar Creek and Little Cedar Creek, 5.2 miles north of Panama Park, and 9.1 miles north of Union Station in Jacksonville.
COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--6.27 mi^2. TRIBUTARY TO.--Broward River.
TYPE OF SITE.--Crest-stage partial-record station, periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 6 observations of zero flow (4 dry channels) with streamflow conditions at 02231280 Thomas Creek near Crawford during 1965-90.

02246754 Pickett Branch near Eastport, Fla.

LOCATION.--Lat 30°27'59", long 81°40'05", in NE$\frac{1}{4}$ sec. 35, T.1 N., R.26 E., at bridge on State Highway 111, 5.3 miles northwest of Eastport.
COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--3.01 mi^2. TRIBUTARY TO.--Broward River.
TYPE OF SITE.--Low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.15 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02231280 Thomas Creek near Crawford using 5 measurements made during 1967-1987.

02246760 Little Cedar Creek near Eastport, Fla.

LOCATION.--Lat 30°28'05", long 81°39'23", in land grant 38, T.1 N., R.26 E., at bridge on State Highway 111, 5 miles northwest of Eastport.
COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--2.96 mi^2. TRIBUTARY TO.--Broward River.
TYPE OF SITE.--Low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 1 observation of zero flow (dry channel) with streamflow conditions at 02231280 Thomas Creek near Crawford during 1967.

02246810 Rushing Branch near Eastport, Fla.

LOCATION.--Lat 30°27'45", long 81°34'03", in NE$\frac{1}{4}$ sec. 35, T.1 N., R.27 E., at culvert on New Berlin Road and 3.6 miles northeast of Eastport.
COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--Not determined. TRIBUTARY TO.--Dunn Creek.
TYPE OF SITE.--Low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 2 observations of zero flow with streamflow conditions at 02231280 Thomas Creek near Crawford during 1984 and 1986.

Table 11. Low-Flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02246828 Pablo Creek at Jacksonville, Fla.

LOCATION.--Lat 30°14'07", long 81°28'42", in land grant 39, T.3 S., R.28 E., at timber bridge on private road, 0.5 mile upstream from Cedar Swamp Creek, 4.8 miles upstream from mouth, and 12.5 miles southeast of Main Street Bridge in Jacksonville.
COUNTY.--Duval.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--25.8 mi^2.
TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1974 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	4.7	4.8	5.0	5.8	6.7	7.8	10	15	17
5	2.7	2.9	3.1	3.4	4.0	4.7	5.6	7.5	9.5
10	2.0	2.2	2.3	2.5	2.9	3.4	3.8	4.7	7.0
20	1.4	1.7	1.7	1.8	2.1	2.5	2.7	3.1	5.5

02246832 Cedar Swamp Creek at Jacksonville, Fla.

LOCATION.--Lat 30°14'38", long 81°28'26", in NE$\frac{1}{4}$ sec. 15, T.3 S., R.28 E., at timber bridge on private road, 0.4 mile upstream from mouth, and 12.4 miles southeast of Main Street Bridge in Jacksonville.
COUNTY.--Duval.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--3.40 mi°.
TRIBUTARY TO.--St. Johns River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1974 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.90	0.92	1.0	1.3	1.7	2.1	2.7	3.4	4.5
5	.41	.44	.50	.66	.91	1.3	1.7	2.1	2.9
10	.24	.25	.32	.45	.56	1.0	1.4	1.6	2.2
20	.14	.15	.22	.31	.48	.84	1.1	1.3	1.7

301438081435800 Fishing Creek near Wesconnett, Fla.

LOCATION.--Lat 30°14'38", long 81°43'58", in NE$\frac{1}{4}$ sec. 18, T.3 S., R.26 E., on Wesconnett Avenue in Jacksonville.
COUNTY.--Duval.
HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--Not determined.
TRIBUTARY TO.--Ortega River.
TYPE OF SITE.--Low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 2.0 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 2. 5 ft^3/s, $Q_{30,10}$ = 1.8 ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02246300 Ortega River near Jacksonville using 5 measurements made during 1984-1987.
REMARKS.--Site subject to tidal fluctuations.

Table 11. Low-Flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

301527081345301 Pottsburg Creek near Bowden, Fla.

LOCATION.--Lat 30°15'27", long 81°34'53", in land grant 50, T.3 S., R.27 E., at bridge on Belfort Road, 8.1 miles upstream from mouth, and 8.7 miles northeast of Bayard.
COUNTY.--Duval. HYDROLOGIC UNIT.--03080103.
DRAINAGE AREA.--Not determined. TRIBUTARY TO.--Arlington River.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.64$ ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 1.4 ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical regression with 02246832 Cedar Swamp Creek near Jacksonville using 7 measurements made during 1977-1987.

02246900 Moultrie Creek at State Highway 207, near St. Augustine, Fla.

LOCATION.--Lat 29°50'50", long 81°21'39", in $SE\frac{1}{4}$ sec. 34, T.7 S., R.29 E., at culverts on State Highway 207, 2.0 miles upstream from Fort Peyton Branch, 4.2 miles southwest of St. Augustine, and 6.3 miles upstream from mouth.
COUNTY.--St. Johns. HYDROLOGIC UNIT.--03080201.
DRAINAGE AREA.--19.8 mi^2. TRIBUTARY TO.--Matanzas River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1961 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.04	0.05	0.07	0.12	0.18	0.38	0.75	1.7	4.4
5	.01	.02	.02	.04	.06	.09	.18	.35	1.3
10	0	0	0	.02	.03	.04	.10	.17	.60
20	0	0	0	.01	.02	.02	.06	.09	.30
50	0	0	0	0	0	0	.04	.04	.14

ACCURACY.--$SE_{7,2}$ = 27 percent; $SE_{30,2}$ = 33 percent, $SE_{30,10}$ = 55 percent.

Table 11. Low-Flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02247000 Moultrie Creek near St. Augustine, Fla.

LOCATION.--Lat 29°49'40", long 81°20'57", in sec. 11, T.8 S., R.29 E., on bank 0.4 mile upstream from Fort Peyton Branch, 1.6 miles downstream from bridge on State Highway 207, and 4.9 miles southwest of St. Augustine.

COUNTY.--St. Johns.

HYDROLOGIC UNIT.--03080201.

DRAINAGE AREA.--20.8 mi°.

TRIBUTARY TO.--Matanzas River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1939 to September 1964.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.41	0.43	0.48	0.53	0.70	0.96	1.1	2.0	4.8
5	.28	.30	.34	.38	.44	.56	.68	.76	1.3
10	.22	.25	.30	.34	.37	.45	.55	.59	.84
20	.19	.22	.27	.32	.33	.39	.45	.49	.65
50	.15	.18	.25	.30	.30	.34	.36	.42	.50

ACCURACY.--$SE_{7,2}$ = 11 percent, $SE_{7,10}$ = 19 percent; $SE_{30,2}$ = 16 percent, $SE_{30,10}$ = 29 percent.

02247010 Fort Peyton Branch near St. Augustine, Fla.

LOCATION.--Lat 29°49'20", long 81°20'50", in $NE\frac{1}{4}$ sec. 11, T.8 S., R.29 E., at dirt road, 5.8 miles southwest of St. Augustine.

COUNTY.--St. Johns.

HYDROLOGIC UNIT.--03080201.

DRAINAGE AREA.--17.2 mi^2.

TRIBUTARY TO.--Moultrie Creek.

TYPE OF SITE.--Periodic measurement station and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.15 ft^3/s, $Q_{7,10}$ = 0.10 ft^3/s; $Q_{30,2}$ = 0.20 ft^3/s, $Q_{30,10}$ = 0.12 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02247000 Moultrie Creek near St. Augustine, using 20 measurements made during 1939-41.

ACCURACY.--$SE_{7,2}$ = 85 percent, $SE_{7,10}$ = 93 percent; $SE_{30,2}$ = 81percent, $SE_{30,10}$ = 93 percent.

02247200 Fish Swamp Outlet near Summer Haven, Fla.

LOCATION.--Lat 29°39'20", long 81°19'43", in $SE\frac{1}{4}$ sec. 1, T.10 S., R.29 E., at culvert on State Highway 204, 7.7 miles southwest of Summer Haven.

COUNTY.--St. Johns.

HYDROLOGIC UNIT.--03080201.

DRAINAGE AREA.--4.64 mi^2.

TRIBUTARY TO.--Stephens Branch.

TYPE OF SITE.--Crest-stage partial-record station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 3 observations of zero flow with streamflow conditions at 02246900 Moultrie Creek at State Highway 207 near St. Augustine during 1969, 1967 and 1971.

REMARKS.--Operated as a small basin, rainfall-runoff station during 1969-75.

Table 11. Low-Flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02247480 Tiger Bay Canal near Daytona Beach, Fla.

LOCATION.--Lat 29°09'58", long 81°09'18", in SW$\frac{1}{4}$ sec. 25, T.15 S., R.31 E., at bridge on Indian Lake Road, 2.4 miles north of intersection with U. S. Highway 92, and 8 miles west of Daytona Beach.

COUNTY.--Volusia.

HYDROLOGIC UNIT.--03080201.

DRAINAGE AREA.--29 mi^2, approximately.

TRIBUTARY TO.--Bennett Swamp.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1978 to September 1989.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0	0.36	2.3
5	0	0	0	0	0	0	0	0	.28
10	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0

REMARKS.--Since 1988 some ground-water diversions out of basin for municipal water supply.

02247510 Tomoka River near Holly Hill, Fla.

LOCATION.--Lat 29°13'02", long 81°06'32", in NW$\frac{1}{4}$ sec. 9, T.15 S., R.32 E., at bridge on 11th Street extension, 0.3 mile southwest of Interstate Highway 95, 2 miles upstream from Priest Branch, 4.5 miles southwest of Holly Hill, and 12 miles upstream from mouth.

COUNTY.--Volusia.

HYDROLOGIC UNIT.--03080201.

DRAINAGE AREA.--76.8 mi^2.

TRIBUTARY TO.--Matanzas River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1966 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.3	1.3	1.4	1.7	2.2	3.6	5.2	7.3	15
5	.31	.41	.42	.50	.76	1.3	2.1	3.2	5.7
10	0	.07	.12	.16	.43	.81	1.3	2.0	3.5
20	0	0	0	0	.27	.53	.93	1.4	2.3
50	0	0	0	0	0	.33	.62	.98	1.5

ACCURACY.--$SE_{30,2}$ = 27 percent, $SE_{30,10}$ = 33 percent.

Table 11. Low-Flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02247600 Little Tomoka River near Ormond Beach, Fla.

LOCATION.--Lat 29°15'23", long 81°09'52", in SW$\frac{1}{4}$ sec. 27, T.14 S., R.31 E., at culverts on State Highway 40, 0.3 mile upstream from Hull Cypress Swamp Outlet, 2.8 miles upstream from mouth, and 7 miles west of Ormond Beach.

COUNTY.--Volusia. HYDROLOGIC UNIT.--03080201.

DRAINAGE AREA.--10 mi^2. TRIBUTARY TO.--Tomoka River.

TYPE OF SITE.--Crest-stage partial-record station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 12 observations of zero flow with streamflow conditions at 02247510 Tomoka River near Holly Hill during 1965-74.

02248000 Spruce Creek near Samsula, Fla.

LOCATION.--Lat 29 03'01", long 81 02'49", in SE$\frac{1}{4}$ sec.1, T.17 S., R.32 E., on bank 50 feet downstream from bridge on State Highway 40A, 1.8 miles north of Samsula, 8 miles west of New Smyrna Beach, 10 miles upstream from Turnbull Bay, and 13 miles upstream from mouth.

COUNTY.--Volusia. HYDROLOGIC UNIT.--03080201.

DRAINAGE AREA.--33.4 mi^2. TRIBUTARY TO.--Halifax River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1951 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0.56	0.56	0.60	0.76	1.0	1.4	1.9	2.7	6.1
10	.14	.16	.19	.24	.37	.43	.64	.77	1.5

REMARKS.--Some diversions for irrigation above station. Significant upward trend in annual low flow.

02249500 Crane Creek at Melbourne, Fla.

LOCATION.--Lat 28°04'42", long 80°37'48", in sec.4, T.28 S., R.37 E., on bank near bridge on U. S. Highway 192, 1.5 miles west of the City Hall in Melbourne, and 2.5 miles upstream from mouth.

COUNTY.--Brevard. HYDROLOGIC UNIT.--03080202.

DRAINAGE AREA.--12.6 mi^2. TRIBUTARY TO.--Indian River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1951 to September 1967.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	4.6	4.8	5.1	5.4	5.9	6.5	7.1	7.7	9.0
5	3.4	3.5	3.8	4.0	4.4	5.0	5.5	5.9	6.6
10	2.9	3.0	3.2	3.4	3.7	4.3	4.8	5.1	5.6
20	2.5	2.6	2.8	3.0	3.2	3.8	4.3	4.6	5.0

ACCURACY.--$SE_{7,2}$ = 9 percent, $SE_{7,10}$ = 9 percent; $SE_{30,2}$ = 9 percent, $SE_{30,10}$ = 9 percent.

Table 11. Low-Flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02250000 Turkey Creek near Palm Bay, Fla.

LOCATION.--Lat 28°00'46", long 80°37'20", in SE$\frac{1}{4}$ sec.27, T.28 S., R.37 E., at bridge on State Highway 507, 2.8 miles southwest of Palm Bay, 3.5 miles upstream from mouth.
COUNTY.--Brevard.
HYDROLOGIC UNIT.--03080202.
DRAINAGE AREA.--95.5 mi^2.
TRIBUTARY TO.--Indian River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1956 to September 1967.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	23	24	25	26	30	34	38	43	56
10	15	16	17	17	19	21	26	28	30

REMARKS.--An undetermined amount of water was diverted into the St. Johns River by pumps in the Melbourne-Tillman drainage district.

02251765 Fellsmere Canal near Fellsmere, Fla.

LOCATION.--Lat 27°49'18", long 80°36'27", in NW$\frac{1}{4}$ sec.2, T.31 S., R.37 E., at bridge on State Highway 507, 3.3 miles north of Fellsmere, and 5.9 miles upstream from mouth.
COUNTY.--Indian River.
HYDROLOGIC UNIT.--03080203.
DRAINAGE AREA.--78.4 mi^2
TRIBUTARY TO.--North Prong Sebastian Creek.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1955 to September 1967.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	30	31	33	35	39	43	54	59	62
10	22	22	22	22	26	30	32	32	36

REMARKS.--Records include undetermined amount of flow diverted from Blue Cypress Lake for irrigation.

02252500 North Canal near Vero Beach, Fla.

LOCATION.--Lat 27°41'32", long 80°25'00", in SE$\frac{1}{4}$ sec.15, T.32 S., R.39 E., on left bank 600 feet upstream from bridge on State Highway 605, and 3.9 miles north of Vero Beach.
COUNTY.--Indian River.
HYDROLOGIC UNIT.--03080203.
DRAINAGE AREA.--Indeterminate.
TRIBUTARY TO.--Indian River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1954 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	5.6	5.8	6.5	8.1	9.4	10	13	15	18
10	2.2	3.0	3.5	4.0	4.8	5.4	6.1	7.5	8.0

REMARKS.--Considerable pumping into canal for drainage above station. Since Sept. 7, 1954, low flow regulated by control structure 2 miles upstream. Significant upward trend in annual low flows.

Table 11. Low-Flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 08 (St. Johns River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02253000 Main Canal at Vero Beach, Fla.

LOCATION.--Lat 27°38'54", long 80°24'10", in SE$\frac{1}{4}$ sec. 35, T.32 S., R.39 E., on bank 8 feet upstream from dam, 700 feet upstream from U. S. Highway 1, and 0.6 mile northwest of Vero Beach.
COUNTY.--Indian River.
HYDROLOGIC UNIT.--03080203.
DRAINAGE AREA.--Indeterminate.
TRIBUTARY TO.--Indian River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1954 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	3.5	3.8	4.6	5.4	7.7	10.2	12.5	15.6	18.0
10	1.8	1.8	2.7	3.5	5.2	6.1	6.8	7.7	8.7

REMARKS.--Considerable pumpage into canal for drainage upstream from station. Since August 1954, low flow regulated by control structure 1.5 miles upstream. Significant downward trend in annual low flows.

02253500 South Canal near Vero Beach, Fla.

LOCATION.--Lat 27°36'11", long 80°23'24", in SW$\frac{1}{4}$ sec. 13, T.33 S., R.39 E., on bank 1,000 feet upstream from bridge on State Highway 605, and 2.5 miles south of Vero Beach.
COUNTY.--Indian River.
HYDROLOGIC UNIT.--03080203.
DRAINAGE AREA.--Indeterminate.
TRIBUTARY TO.--Indian River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1956 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	3.5	4.6	10.4	16.0	24.6	33.5	42.3	48.0	52.9
10	0	.40	4.6	7.3	14.3	18.6	25.7	28.3	30.7

REMARKS.--Considerable pumping into canal for drainage above station. Since January 1956, low flow regulated by control structure upstream.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02262900 Boggy Creek near Taft, Fla.

LOCATION.--Lat 28°22'16", long 81°18'39", in NE$\frac{1}{4}$ sec.28, T.24 S., R.30 E., on bank 450 feet downstream from Boggy Creek Swamp, 2.0 miles upstream from bridge on State Highway 530, 3.5 miles upstream from mouth, and 5.5 miles southeast of Taft.
COUNTY.--Orange.
HYDROLOGIC UNIT.--03090101.
DRAINAGE AREA.--83.6 mi^2.
TRIBUTARY TO.--East Lake Tohopekaliga.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1959 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.3	1.4	1.5	2.0	3.3	5.2	7.8	11	16
5	.17	.20	.26	.57	1.5	2.6	4.2	5.9	8.1
10	.04	.06	.13	.36	.98	1.8	3.1	4.3	5.9
20	0	.02	.08	.26	.69	1.3	2.4	3.3	4.7

ACCURACY.--$SE_{30,2}$ = 16 percent, $SE_{30,10}$ = 20 percent.
REMARKS.-- Some diversions to ground water through drainage wells in lakes upstream from station.

02263800 Shingle Creek at Airport, near Kissimmee, Fla.

LOCATION.--Lat 28°18'14", long 81°27'04", in NW$\frac{1}{4}$ sec.19, T.25 S., R.29 E., at bridge on U. S. Highway 192, 1.0 mile northwest of Kissimmee Airport, 3 miles west of Kissimmee, and 5.6 miles upstream from mouth.
COUNTY.--Osceola.
HYDROLOGIC UNIT.--03090101.
DRAINAGE AREA.--89.2 mi^2.
TRIBUTARY TO.--Lake Tohopekaliga.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1958 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	160
50	5.4	6.0	7.2	7.6	12	17	22	24	36
10	0	0	0	0	0	.56	3.7	7.3	11

REMARKS.--Flow is unregulated. Significant upward trend in annual low flows.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02263869 South Lake Outlet at S-15 near Vineland, Fla.

LOCATION.--Lat 28°24'45", long 81°32'17", in SW$\frac{1}{4}$ sec.8, T.24 S., R.28 E., on right bank at upstream wingwall of control structure 15, 300 feet south of natural lake shoreline, 1,600 feet west of State Highway 535, and 2.4 miles northwest of Vineland.
COUNTY.--Orange. HYDROLOGIC UNIT.--03090101.
DRAINAGE AREA.--4.0 mi^2, approximately. TRIBUTARY TO.--Bonnet Creek.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1972 to September 1982.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0

REMARKS.--Flow from South Lake into South Lake outlet regulated by automatic gates in control structure 15. No flow for many days each year.

02264000 Cypress Creek at Vineland, Fla.

LOCATION.--Lat 28°23'25", long 81°31'11", in NW$\frac{1}{4}$ sec.21, T.24 S., R.28 E., at culverts on State Highway 535, 1 mile west of Vineland.
COUNTY.--Orange. HYDROLOGIC UNIT.--03090101.
DRAINAGE AREA.--30.3 mi^2. TRIBUTARY TO.--Bonnet Creek.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1945 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0	0.04	0.10	0.20	0.68
10	0	0	0	0	0	0	0	0	.01

REMARKS.--Some diversions by pumping above station for irrigation. No flow for many days in most low flow; creek dry at gage for many days in some low flow. Significant downward trend in annual low flows.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02264100 Bonnet Creek near Vineland, Fla.

LOCATION.--Lat 28°19'58", long 81°31'20", in NW$\frac{1}{4}$ sec.9, T.25 S., R.28 E., at bridge on U. S. Highway 192, about 1 mile upstream from Reedy Creek Swamp, and 4.5 miles south of Vineland.

COUNTY.--Osceola.

HYDROLOGIC UNIT.--03090101.

DRAINAGE AREA.--56.1 mi^2.

TRIBUTARY TO.--Reedy Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1968 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0.84	2.4	2.7	4.7	5.3	7.8	10	11	14
10	0	0	0	0	0	3.8	4.2	5.5	7.7

REMARKS.--Since October 1968, flow regulated by automatic gates upstream and since December 1970, by control structure S-11-temportary 0.5 mile downstream. Natural flow of stream affected by canals and control structures above station which divert an undetermined amount of water into the Reedy Creek basin. From Oct. 13, 1983 to Feb. 1, 1985 structure S-11-temporary did not regulate the stream because of a washout of the bank around the structure. No flow for many days most low flow.

02264495 Shingle Creek at Campbell, Fla.

LOCATION.--Lat 28°16'01", long 81°26'53", in SE$\frac{1}{4}$ sec.31, T.25 S., R.29 E., on bank 200 feet downstream from bridge on county road, 300 feet downstream from Atlantic Coast Line Railroad bridge, 0.8 mile northeast of Campbell, and 2.5 miles upstream from mouth.

COUNTY.--Osceola.

HYDROLOGIC UNIT.--03090101.

DRAINAGE AREA.--180 mi^2, approximately.

TRIBUTARY TO.--Lake Tohopekaliga.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1968 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	21	22	24	28	31	36	45	54	63
10	3.8	4.7	5.0	7.1	12	14	15	20	40

REMARKS.--Natural flow of stream affected by several canals, levees, and control structures which divert an undetermined amount of water into Shingle Creek above station or into the Reedy Creek basin. Significant upward trend in annual low flows.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02266200 Whittenhorse Creek near Vineland, Fla.

LOCATION.--Lat 28°23'05", long 81°37'00", in NW$\frac{1}{4}$ sec.21, T.24 S., R.27 E., near culverts on Hartzog Road, 7 miles west of Vineland.
COUNTY.--Orange. HYDROLOGIC UNIT.--03090101.
DRAINAGE AREA --12.4 mi^2. TRIBUTARY TO.--Reedy Creek.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1966 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0	0	0.25
5	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0

REMARKS.--No flow for many days each year; creek dry at gage for many days in most low flow.

02266300 Reedy Creek near Vineland, Fla.

LOCATION.--Lat 28°19'57", long 81°34'48", in NE$\frac{1}{4}$ sec.11, T.25 S., R.27 E., at bridge on U. S. Highway 192, about 2.5 miles upstream from bridge on Interstate Highway 4, 6.5 miles southwest of Vineland, and 28 miles upstream from mouth.
COUNTY.--Osceola. HYDROLOGIC UNIT.--03090101.
DRAINAGE AREA.--75 mi^2, approximately. TRIBUTARY TO.--Lake Russell.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1966 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	4.6	4.8	5.5	6.4	7.8	9.4	11	14	18
10	.26	.29	.33	.39	.52	1.3	2.5	2.6	5.9

REMARKS.--Upstream flows regulated by numerous structures. No flow for many days in some low flow. Significant upward trend in annual low flows.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02266480 Davenport Creek near Loughman, Fla.

LOCATION.--Lat 28°16'15", long 81°35'28", in NW$\frac{1}{4}$ sec.35, T.25 S., R.27 E., at culverts on State Highway 545, 2.0 miles upstream from mouth, and 2.5 miles northwest of Loughman.

COUNTY.--Osceola.

HYDROLOGIC UNIT.--03090101.

DRAINAGE AREA.--23 mi^2, approximately.

TRIBUTARY TO.--Reedy Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1969 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.0	1.1	1.2	1.3	1.5	1.9	2.4	3.2	4.7
5	.63	.66	.72	.80	.95	1.1	1.5	1.9	2.6
10	.49	.52	.56	.63	.74	.89	1.2	1.5	2.0
20	.40	.43	.46	.52	.61	.75	1.0	1.3	1.6

ACCURACY.--$SE_{7,2}$ = 15 percent, $SE_{7,10}$ = 19 percent; $SE_{30,2}$ = 15 percent, $SE_{30,10}$ = 21 percent.

02266500 Reedy Creek near Loughman, Fla.

LOCATION.--Lat 28°15'48", long 81°32'12", in SW$\frac{1}{4}$ sec.32, T.25 S., R.28 E., on bank 20 feet upstream from bridge on U. S. Highways 17 and 92, 1 mile downstream from Reedy Creek Improvement District Structure 40, 2.5 miles northeast of Loughman, 3 miles downstream from Davenport Creek, and 21 miles upstream from mouth.

COUNTY.- Osceola.

HYDROLOGIC UNIT.--03090101.

DRAINAGE AREA.--110 mi^2, approximately.

TRIBUTARY TO.--Lake Russell.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1970 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0.01	0.43	3.1	5.8	20
10	0	0	0	0	0	0	0	0	2.5

REMARKS.--Natural flow of stream affected by several canals, levees, and control structures which divert an undetermined amount of water into Reedy Creek above station or into the Shingle Creek basin. Since May 1970, flow regulated by Reedy Creek Improvement District Structure 40.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02267000 Catfish Creek near Lake Wales, Fla.

LOCATION.--Lat 27°57'40", long 81°29'48", in sec.14, T.29 S., R.28 E., on bank, 0.2 mile downstream from Lake Pierce, 7 miles northeast of city of Lake Wales, and 9.3 miles upstream from mouth.
COUNTY.--Polk.
HYDROLOGIC UNIT.--03090101.
DRAINAGE AREA.--58.9 mi^2.
TRIBUTARY TO.--Lake Hatchineha.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1947 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	15	15	15	19	19	20	23	25	30
10	2.4	2.6	3.0	2.6	3.8	6.3	8.9	11	14

REMARKS.--Flow is unregulated. Significant downward trend in annual low flows.

02268903 Kissimmee River at S-65, near Lake Wales, Fla.

LOCATION.--Lat 27°48'14", long 81°11'53", in NW$\frac{1}{4}$ sec.11, T.31 S., R.31 E., on bank at upstream side of lock and control structure 65, 0.1 mile downstream from bridge on State Highway 60, and 25 miles southeast of town of Lake Wales.
COUNTY.--Osceola.
HYDROLOGIC UNIT.--03090101.
DRAINAGE AREA.--1,607 mi^2.
TRIBUTARY TO.--Lake Kissimmee.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1970 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0.08	0.25	0.38	0.80	3.5	27	297
10	0	0	0	0	0	0	.33	.72	.84

REMARKS.--Flow regulated by operation of control structure 65 since July 1964 and by storage releases at several structures in headwaters. No flow for many days in most low flow. Significant downward trend in annual low flows.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02269500 Reedy Creek near Frostproof, Fla.

LOCATION.--Lat 27°43'13", long 81°28'40", in SW$\frac{1}{4}$ sec.1, T.32 S., R.28 E., at bank near highway bridge, 100 feet downstream from Reedy Lake, 1.9 miles upstream from mouth, and 3.5 miles southeast of Frostproof.

COUNTY.--Polk.

HYDROLOGIC UNIT.--03090101.

DRAINAGE AREA.--60.9 mi^2.

TRIBUTARY TO.--Livingston Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1946 to September 1972.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	8.3	9.0	10	14	14	15	18	20	23
5	1.1	1.2	1.8	2.3	2.9	5.1	8.0	10	14
10	.18	.23	.37	.41	.93	2.4	4.6	6.9	9.9
20	.02	.03	.04	.06	.30	1.1	2.7	4.7	7.4

ACCURACY.--$SE_{30,2}$ = 48 percent, $SE_{30,10}$ = 55 percent.

02270500 Arbuckle Creek near De Soto City, Fla.

LOCATION.--Lat 27°26'32", long 81°17'51", in SE$\frac{1}{4}$ sec.11, T.35 S., R.30 E., on bank 20 feet downstream from bridge on U. S. Highway 98, 1.3 miles upstream from mouth, and 7 miles east of De Soto City.

COUNTY.--Highlands.

HYDROLOGIC UNIT.--03090101.

DRAINAGE AREA.--379 mi^2.

TRIBUTARY TO.--Lake Istokpoga.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1939 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	34	34	36	40	46	71	82	92	119
10	.98	2.4	3.0	6.6	9.8	13	19	30	45

REMARKS.--Records include small diversions into Lake Arbuckle from Lake Weohyapapka through Blue Jordan swamp. Significant downward trend in annual low flows.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02271500 Josephine Creek near De Soto City, Fla.

LOCATION.--Lat 27°22'26", long 81°23'37", in NE$\frac{1}{4}$ sec.2, T.36 S., R.29 E., on bank near bridge on State Highway 17, 4.0 miles south of De Soto City, and 4.9 miles upstream from mouth.

COUNTY.--Highlands.

HYDROLOGIC UNIT.--03090101.

DRAINAGE AREA.--109 mi^2.

TRIBUTARY TO.--Arbuckle Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1946 to September 1975 and October 1978 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	6.8	7.0	7.7	8.6	11	14	16	10	26
5	2.7	3.0	3.4	3.8	4.6	6.0	7.3	8.5	12
10	1.8	1.9	2.1	2.4	2.9	3.8	4.7	5.5	7.8
20	1.2	1.2	1.4	1.6	2.0	2.5	3.3	3.9	5.5
50	.71	.76	.91	1.1	1.2	1.6	2.1	2.6	3.6

ACCURACY.--$SE_{7,2}$ = 17 percent, $SE_{7,10}$ = 18 percent; $SE_{30,2}$ = 17 percent, $SE_{30,10}$ = 19 percent.

REMARKS.--Some regulation by gate manipulation at structure G-90 located on Lake June-in-Winter outflow canal.

02273000 Kissimmee River at S-65E, near Okeechobee, Fla.

LOCATION.--Lat 27°13'32", long 80°57'46", in NE$\frac{1}{4}$ sec.30, T.37 S., R.34 E., at upstream side of lock and control structure 65E, 1.8 miles downstream from State Highway 70, 8.2 miles upstream from mouth, and 8.5 miles west of Okeechobee.

COUNTY.--Okeechobee.

HYDROLOGIC UNIT.--03090101.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Lake Okeechobee.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1964 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0.26	1.4	19	39	100	139	192	693
10	0	0	0	0	.06	2.6	6.8	7.1	35

REMARKS.--Flow regulated by operation of structure 65E beginning in October 1964. Records do not include diversions from Lake Istokpoga through control structure 68 on Canal 41A, which began July 1962. No flow for many days in most low flow since 1965. Significant downward trend in annual low flows.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02273300 Canal 41A at S-84, near Okeechobee, Fla.

LOCATION.--Lat 27°12'55", long 80°58'55", in SW$\frac{1}{4}$ sec.36, T.37 S., R.33 E., near bank, 500 feet upstream from control structure 84, and 9.5 miles west of Okeechobee.

COUNTY.--Highlands.

HYDROLOGIC UNIT.--03090101.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Kissimmee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1964 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0	0	0	3.0	33
10	0	0	0	0	0	0	0	0	0

REMARKS.--Flow regulated by operation of structure 84, by storage releases upstream at structure 68 at outlet of Lake Istokpoga and several small diversions above station for irrigation. Flow may be diverted into either Indian Prairie Canal or Harney Pond Canal by combined operation of structures 70, 75, 82, and 83.

02274000 Taylor Creek near Basinger, Fla.

LOCATION.--Lat 27°23'39", long 80°53'44", in SE$\frac{1}{4}$ sec.26, T.35 S., R.34 E., at bridge on State Highway 68, 800 feet upstream from control structure 3, 0.8 mile downstream from small tributary, 8.5 miles east of Basinger, and 17 miles upstream from mouth.

COUNTY.--Okeechobee.

HYDROLOGIC UNIT.--03090102.

DRAINAGE AREA.--15.7 mi^2.

TRIBUTARY TO.--Lake Okeechobee.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1965 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0.10	0.38	0.91	1.5	1.9
10	0	0	0	0	0	0	.07	.13	.47

REMARKS.--Some diversion during low flow for irrigation. Flow regulated at station by operation of control structure 3 since February 1965.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02274495 Williamson Ditch at S-7, near Okeechobee, Fla.

LOCATION.--Lat 27°17'45", long 80°49'35", in NW$\frac{1}{4}$ sec.34, T.36 S., R.35 E., at bank 125 feet upstream from control structure 7,450 feet upstream from mouth, and 3.6 miles north of Okeechobee.
COUNTY.--Okeechobee. HYDROLOGIC UNIT.--03090102.
DRAINAGE AREA.--35.4 mi^2. TRIBUTARY TO.--Lake Okeechobee.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1964 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0.54	0.69	0.83	1.2	1.4	2.1	2.8	2.7	4.3
10	.00	.00	.00	.09	.19	.30	.79	1.3	1.9

REMARKS.--Flow regulated at time by stoplog control 1 mile upstream. Significant downward trend in annual low flows.

02256500 Fisheating Creek at Palmdale, Fla.

LOCATION.--Lat 26°55'56", long 81°18'54", in SW$\frac{1}{4}$ sec.3, T.41 S., R.30,E., at southbound bridge on U. S. Highway 27, 1.0 mile south of Palmdale, and 16 miles upstream from Lake Okeechobee.
COUNTY.--Glades. HYDROLOGIC UNIT.--03090103.
DRAINAGE AREA.--311 mi^2. TRIBUTARY TO.--Lake Okeechobee.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1931 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0.84	3.3	7.6	20
5	0	0	0	0	0	0	.13	.46	2.5
10	0	0	0	0	0	0	0	0	.64
20	0	0	0	0	0	0	0	0	.19
50	0	0	0	0	0	0	0	0	0

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02257800 Harney Pond Canal at S-71, near Lakeport, Fla.

LOCATION.--Lat 27°02' 00, long 81°04'15", in NE$\frac{1}{4}$ sec.1, T.40 S., R.32 E., near bank 220 feet upstream from control structure 71, 0.1 mile west of State Highway 721, 2.3 miles upstream from bridge on State Highway 78, and 5.2 miles northeast of Lakeport.

COUNTY.--Glades.

HYDROLOGIC UNIT.--03090103.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Lake Okeechobee.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1962 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0	0	7.2	23	33
10	0	0	0	0	0	0	0	0	.67

REMARKS.--Flow may be diverted into Indian Prairie Canal by the combined operation of structures 70 and 75 upstream.

02259200 Indian Prairie Canal at S-72, near Okeechobee, Fla.

LOCATION.--Lat 27°05'35", long 81°00'25", in SE$\frac{1}{4}$ sec.10, T.39 S., R.33 E., near bank 230 feet upstream from control structure 72, 2.6 miles upstream from bridge on State Highway 78, and 15 miles southwest of Okeechobee.

COUNTY.--Glades.

HYDROLOGIC UNIT.--03090103.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Lake Okeechobee.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1962 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual in low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0	0	0	0	1.0
10	0	0	0	0	0	0	0	0	0

REMARKS.--Flow regulated by operation of Structure 72, by storage releases upstream at Structures 68, 75, and 82, and several small diversions for irrigation. Flow may be diverted to Harney Pond Canal by the combined operation of structures 70 and 75.

Table 12. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 09 (Southern Florida)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02259500 Indian Prairie Canal near Okeechobee, Fla.

LOCATION.--Lat 27°03'57", long 80°59'12", in sec.10, T.39 S., R.33 E., 4 miles upstream from Lake Okeechobee, and 12 miles northeast of Lakeport.
COUNTY.--Glades.
HYDROLOGIC UNIT.--03090103.
DRAINAGE AREA.--320 mi^2.
TRIBUTARY TO.--Lake Okeechobee.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1939 to September 1950.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0	2.8	7.6
5	0	0	0	0	0	0	0	0	.23
10	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02293694 Peace Creek Drainage Canal near Dundee, Fla.

LOCATION.--Lat 28°01'50", long 81°39'35", in sec. 29, T.28 S., R.27 E., 150 feet downstream from bridge on State Highway 542, 1.2 miles west of Dundee, and 1.4 miles downstream from Lake Hamilton Outlet.
COUNTY.--Polk.
HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--58 mi^2, approximately.
TRIBUTARY TO.--Peace River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1946 to September 1959.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	1.1	1.1	1.2	1.5	2.5	4.0	6.3	9.6	13
10	0	0	.01	.04	.06	.16	.26	.33	.43

REMARKS.--Slight regulation of low flow by Lake Hamilton control.

02293986 Peace Creek Drainage Canal near Alturas, Fla.

LOCATION.--Lat 27°55'23", long 81°42'28", in NW$\frac{1}{4}$ sec.34, T.29 S., R.26 E., at bridge, 0.5 mile north of State Highway 60, 3.5 miles north of Alturas, and 8.2 miles east of Bartow.
COUNTY.--Polk.
HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--160 mi^2.
TRIBUTARY TO.--Peace River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1947 to September 1971.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	7.2	7.4	7.7	8.8	11	14	18	21	34
5	2.9	3.2	3.6	4.6	5.8	7.5	10	10	14
10	1.6	1.9	2.6	3.7	4.8	6.1	7.8	7.9	9.6
20	.97	1.2	2.0	2.9	3.7	5.1	6.3	6.7	7.4

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02294068 Lulu Lake Outlet at Eloise, Fla.

LOCATION.--Lat 27°59'03", long 81°43'47", in SE$\frac{1}{4}$ sec.5 , T.29 S., R.26 E., on downstream abutment of culvert on State Highway 540A at intersection with Old Rifle Range Road, 2,200 feet downstream from concrete control at outlet of Lake Lulu and 0.9 mile southeast of Eloise.
COUNTY.--Polk.
HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--23 mi^2, approximately.
TRIBUTARY TO.--Peace River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1946 to September 1971.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0.33	0.43	0.66	0.85	1.3	1.9	2.5	3.2	3.7
10	0	0	.04	.11	.23	.39	.50	.76	1.1

REMARKS.--Records include a small amount of waste water diverted by Polk Packing Company, from groundwater supplies during packing season. Some regulation by control structure at outlet of Lake Lulu.

02294491 Saddle Creek at Structure P-11 near Bartow, Fla.

LOCATION.--Lat 27°56'17", long 81°51'05", in SW$\frac{1}{4}$ sec.19, T.29 S., R.25 E., near bank 65 feet downstream from structure P-11, 0.7 mile south of Lake Hancock, and 3 miles north of post office in Bartow.
COUNTY.--Polk.
HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--135 mi^2.
TRIBUTARY TO.--Peace River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1964 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0	0.08	0.16	5.1	15
10	0	0	0	0	0	0	0	0	.04

REMARKS.--Flow regulated by structure P-11.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02294650 Peace River at Bartow, Fla.

LOCATION.--Lat 27°54'07" long 81°49'03", in NE$\frac{1}{4}$ sec. 4, T.30 S., R.25 E., at bridge on State Highway 60, 500 feet downstream from McKinney Branch, 0.6 mile east of Bartow, and 105 miles upstream from mouth.
COUNTY.--Polk. HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--390 mi^2. TRIBUTARY TO.--Charlotte Harbor.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1939 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	20	21	23	26	30	40	52	67	96
10	4.9	5.3	6.0	8.0	10	14	16	20	24

REMARKS.--Since 1949, records include an appreciable amount of waste water diverted from groundwater supplies into McKinney Branch by chemical plants and phosphate mines. Since July 1963, considerable regulation by control structure P-11 on Saddle Creek. Significant downward trend in annual low flows.

02294781 Peace River near Homeland, Fla.

LOCATION.--Lat 27°49'13", long 81°47'57", in SE$\frac{1}{4}$ sec. 34, T.30 S., R.25 E., at bridge on State Highway 640, 1.6 miles east of U.S. Highway 17 in Homeland, and 97 miles upstream from mouth.
COUNTY.--Polk. HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--437 mi^2. TRIBUTARY TO.--Charlotte Harbor.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 5.0 ft^3/s, $Q_{7,10}$ = 0.68 ft^3/s; $Q_{30,2}$ = 10 ft^3/s, $Q_{30,10}$ = 1.4 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02295637 Peace River at Zolfo Springs using 35 measurements made during 1980-89.
ACCURACY.--$SE_{7,2}$ = 128 percent, $SE_{7,10}$ = 156 percent; $SE_{30,2}$ = 126 percent, $SE_{30,10}$ = 142 percent.
REMARKS.--Significant loss of water to groundwater system may occur each year between stations 02294650 Peace River at Bartow and 02294898 Peace River at Fort Meade.

02294898 Peace River at Fort Meade, Fla.

LOCATION.--Lat 27°45'04", long 81°46'56", in SE$\frac{1}{4}$ sec.26, T.31 S., R.25 E., at bridge on U. S. Highway 98, 0.4 mile downstream from Sink Branch and 1.2 miles east of U. S. Highway 17 in Fort Meade.
COUNTY.--Polk. HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--480 mi^2. TRIBUTARY TO.--Charlotte Harbor.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1974 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	6.1	8.3	8.6	12	21	25	31	48	58
10	.62	.71	1.0	1.5	3.7	6.2	7.1	7.7	12

REMARKS.--Water diverted into river from groundwater sources by upstream mining industries affects flow on many days. Significant loss of water to groundwater system may occur each year between 02294650 Peace River at Bartow and this station.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02295013 Bowlegs Creek near Fort Meade, Fla.

LOCATION.--Lat 27°41'57", long 81°41'40", in NW$\frac{1}{4}$ sec. 14, T.32 S., R.26 E., on left bank 330 feet upstream from culverts on county road, 2.1 miles downstream from Boggy Branch, and 7.6 miles southeast of Fort Meade.
COUNTY.--Polk. HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--47.2 mi^2. TRIBUTARY TO.--Peace River.
TYPE OF SITE.--Crest-stage partial-record station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.78 ft^3/s, $Q_{7,10}$ = 0.17 ft^3/s; $Q_{30,2}$ = 1.2 ft^3/s, $Q_{30,10}$ = 0.26 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02296500 Charlie Creek near Gardner using 41 measurements made during 1964-1981.
ACCURACY.--$SE_{7,2}$ = 146 percent, $SE_{7,10}$ = 191 percent; $SE_{30,2}$ = 159 percent, $SE_{30,10}$ = 171 percent.

02295420 Payne Creek near Bowling Green, Fla.

LOCATION.--Lat 27°37'13", long 81°49'33", in SW$\frac{1}{4}$ sec. 9, T.33 S., R.25 E., at bridge on U. S. Highway 17, 0.4 mile downstream from Little Payne Creek and 1.2 miles south of Bowling Green.
COUNTY.--Hardee. HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--121 mi^2. TRIBUTARY TO.--Peace River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1963 to September 1968 and October 1979 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	7.2	9.8	11	12	20	22	33	43	43
10	1.6	1.9	2.1	2.4	3.1	7.0	11	12	12

REMARKS.--Some diversion by pumping for irrigation.

02295435 Hog Branch near Wachula, Fla.

LOCATION.--Lat 27°35'32", long 81°49'20", in SW$\frac{1}{4}$ sec. 21, T.33 S., R.25 E., at culvert on U. S. Highway 17, 1.7 miles above mouth and 3.1 miles north of Wauchula.
COUNTY.--Hardee. HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--5.31 mi^2. TRIBUTARY TO.--Peace River.
TYPE OF SITE.--Continuous-record gaging station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.01 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.02 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.
BASIS OF ESTIMATE.--Graphical analysis with 02297155 Horse Creek near Myakka Head using 4 measurements made during 1980-81.

02295557 Little Charlie Creek near Wachula, Fla.

LOCATION.--Lat 27°35'15", long 81°46'17", on line between secs. 24 and 25, T.33 S., R.25 E.,at bridge on county road, 3.8 miles northeast of Wauchula.
COUNTY.--Hardee. HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--36.7 mi^2. TRIBUTARY TO.--Peace River.
TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.28 ft^3/s, $Q_{7,10}$ = 0.09 ft^3/s; $Q_{30,2}$ = 0.41 ft^3/s, $Q_{30,10}$ = 0.12 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02296500 Charley Creek near Gardner using 10 measurements made during 1965-1983.
ACCURACY.--$SE_{7,2}$ = 56 percent, $SE_{7,10}$ = 67 percent; $SE_{30,2}$ = 55 percent, $SE_{30,10}$ = 62 percent.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02295607 Peace River at Wauchula, Fla.

LOCATION.--Lat 27°33'01", long 81°47'38", in NE$\frac{1}{4}$ sec. 3, T.34 S., R.25 E., at bridge on S-64A, 1.1 miles east of Wauchula.
COUNTY.--Hardee. HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--808 mi^2. TRIBUTARY TO.--Charlotte Harbor.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 82 ft^3/s, $Q_{7,10}$ = 39 ft^3/s; $Q_{30,2}$ = 108 ft^3/s, $Q_{30,10}$ = 51 ft^3/s.
BASIS OF ESTIMATE.--Graphical analysis with 02295637 Peace River near Zolfo Springs using 3 measurements made during 1982-83.

02295637 Peace River at Zolfo Springs, Fla.

LOCATION.--Lat 27°30'15", long 81°48'04", in SE$\frac{1}{4}$ sec.22, T.34 S., R.25 E., at bridge on U. S. Highway 17, 0.8 mile north of Zolfo Springs and 69 miles upstream from mouth.
COUNTY.--Hardee. HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--826 mi^2. TRIBUTARY TO.--Charlotte Harbor.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1933 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	--	--	95	105	120	143	184	220	282
5	--	--	62	70	76	88	116	134	154
10	--	--	49	56	62	73	90	101	117
20	--	--	40	46	54	63	70	80	93
50	--	--	32	40	48	56	57	60	72

ACCURACY.--$SE_{7,2}$ = 7 percent, $SE_{7,10}$ = 9 percent; $SE_{30,2}$ = 7 percent, $SE_{30,10}$ = 9 percent.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	84	87	--	--	--	--	--	--	--
10	37	40	--	--	--	--	--	--	--

REMARKS.--Significant downward trend indicated for 1-day and 3-day annual low flows.

02295800 Peace River near Limestone, Fla.

LOCATION.--Lat 27°24'52", long 81°50'53", in SE$\frac{1}{4}$ sec.19, T.35 S., R.25 E., 3.5 miles west of Buchanan and 5.4 miles northeast of Limestone.
COUNTY.--Hardee. HYDROLOGIC UNIT.--03100101.
DRAINAGE AREA.--892 mi^2. TRIBUTARY TO.--Charlotte Harbor.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 96 ft^3/s, $Q_{7,10}$ = 45 ft^3/s; $Q_{30,2}$ = 125 ft^3/s, $Q_{30,10}$ = 59 ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02295637 Peace River at Zolfo Springs using 3 measurements made during 1982-1983.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02296223 Little Charlie Bowlegs Creek near Sebring, Fla.

LOCATION.--Lat 27°28'40", long 81°33'25", in NW$\frac{1}{4}$ sec.31, T.34 S., R.28 E., on bank 160 feet downstream from concrete control, 900 feet north of county road in Highlands Hammock State Park, 0.8 mile upstream from unnamed creek, and 7 miles southwest of Sebring.

COUNTY.--Highlands.

HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--41.9 mi^2.

TRIBUTARY TO.--Charlie Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1952 to September 1983.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0.03	0.27	0.43	2.7	3.5	7.0
10	0	0	0	0	0	.02	.09	.14	.44

REMARKS.--Flow affected for short periods by operation of control structure 160 ft. upstream from station. Significant downward trend in annual low flows.

02296389 Oak Creek near Gardner, Fla.

LOCATION.--Lat 27°24'42", long 81°41'44", in NE$\frac{1}{4}$ sec. 27, T.35 S., R.26 E., at bridge on county road, 7.8 miles northeast of Gardner.

COUNTY.--Hardee.

HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--67.0 mi^2.

TRIBUTARY TO.--Charlie Creek.

TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.38 ft^3/s, $Q_{7,10}$ = 0.09 ft^3/s; $Q_{30,2}$ = 0.59 ft^3/s, $Q_{30,10}$ = 0.13 ft^3/s.

BASIS OF ESTIMATE.--Analytical regression with 02296500 Charlie Creek near Gardner using 11 measurements made during 1965-1981.

ACCURACY.--$SE_{7,2}$ = 175 percent, $SE_{7,10}$ = 230 percent; $SE_{30,2}$ = 167 percent, $SE_{30,10}$ = 204 percent.

02296408 Charlie Creek near Zolfo Springs, Fla.

LOCATION.--Lat 27°24'33", long 81°44'46", in SW$\frac{1}{4}$ sec. 32, T.33 S., R.27 E., at bridge on State Highway 64, 8.5 miles west of Avon Park.

COUNTY.--Hardee.

HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--289 mi^2.

TRIBUTARY TO.--Peace River.

TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 2.0 ft^3/s, $Q_{7,10}$ = 0.31ft^3/s; $Q_{30,2}$ = 3.5 ft^3/s, $Q_{30,10}$ = 0.50 ft^3/s.

BASIS OF ESTIMATE.--Analytical regression with Charlie Creek near Garnder using 21 measurements made during 1959-1981.

ACCURACY.--$SE_{7,2}$ = 38 percent, $SE_{7,10}$ = 41 percent; $SE_{30,2}$ = 37 percent, $SE_{30,10}$ = 42 percent.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02296500 Charlie Creek near Gardner, Fla.

LOCATION.--Lat 27°22'29", long 81°47'48", in SE$\frac{1}{4}$ sec. 3, T.36 S., R.25 E., at bridge pier on U. S. Highway 17, 1.6 miles north of Gardner, and 4.5 miles upstream from mouth.

COUNTY.--Hardee.

HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--330 mi^2.

TRIBUTARY TO.--Peace River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1950 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	3.1	3.2	3.4	4.1	5.7	11	18	28	50
5	.71	1.1	1.2	1.3	2.0	2.8	5.0	6.7	11
10	.38	.53	.65	.70	1.0	1.5	2.8	4.1	6.9
20	.15	.26	.35	.38	.55	.87	1.8	3.0	5.1
50	0	.10	.14	.18	.25	.50	1.0	2.2	3.8

ACCURACY.--$SE_{7,2}$ = 21 percent, $SE_{7,10}$ = 21percent; $SE_{30,2}$ = 20 percent, $SE_{30,10}$ = 22 percent.

02296750 Peace River at Arcadia, Fla.

LOCATION.--Lat 27°13'19", long 81°52'34", in SE$\frac{1}{4}$ sec.26, T.37 S., R.24 E., on bank 500 feet upstream from bridge on State Highway 70, 1.0 mile west of post office in Arcadia, 6.1 miles upstream from Joshua Creek, and 36 miles upstream from mouth.

COUNTY.--DeSoto.

HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--1,367 mi^2.

TRIBUTARY TO.--Charlotte Harbor.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1931 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	94	98	104	114	129	170	205	251	359
5	51	56	63	72	78	104	117	139	158
10	38	42	48	53	64	81	95	111	123
20	29	32	38	46	53	66	80	90	100
50	21	24	29	38	45	59	69	74	88

ACCURACY.--$SE_{7,2}$ = 9 percent, $SE_{7,10}$ = 10 percent; $SE_{30,2}$ = 8 percent, $SE_{30,10}$ = 11 percent.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02297100 Joshua Creek at Nocatee, Fla.

LOCATION.--Lat 27°09'59", long 81°52'47", in SE$\frac{1}{4}$ sec.14, T.38 S., R.24 E., at bridge on U. S. Highway 17, 0.5 mile north of Nocatee, and 2.2 miles upstream from mouth.

COUNTY.--DeSoto. HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--132 mi^2. TRIBUTARY TO.--Peace River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1950 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	1.2	1.5	2.0	2.3	3.1	5.1	8.4	10	19
10	.22	.23	.30	.41	.82	1.4	2.2	3.0	3.9

REMARKS.--Flow is not regulated. Significant upward trend in annual low flows.

02297155 Horse Creek near Myakka Head, Fla.

LOCATION.--Lat 27°29'13", long 82°01'25", in SE$\frac{1}{4}$ sec.29, T.34 S., R.23 E., at bridge on State Highway 64, 3.5 miles northeast of Myakka Head, and 39.5 miles upstream from mouth.

COUNTY.--Hardee. HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--42 mi^2. TRIBUTARY TO.--Peace River.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.03 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.08 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02297310 Horse Creek near Arcadia using 69 measurements made during 1977-87.

REMARKS.--Operated as a continuous-record streamflow station since 1977.

02297251 Horse Creek near Limestone, Fla.

LOCATION.--Lat 27°21'50", long 81°58'25", in sec. 20, T.33 S., R.23 E., at bridge on State Highway 62, 5.5 miles west of Fort Green Springs.

COUNTY.--Hardee. HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--130 mi^2. TRIBUTARY TO.--Peace River.

TYPE OF SITE.--Crest-stage partial-record station, miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.12 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.32 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02297310 Horse Creek near Arcadia using 8 measurements and one observation of no flow made during 1965-1981.

02297266 Horse Creek near Pine Level, Fla.

LOCATION.--Lat 27°15'18", long 81°58'05", in SW$\frac{1}{4}$ sec.13, T.37 S., R.23 E., at bridge on State Highway 70, 1.6 miles southeast of Pine Level.

COUNTY.--Desoto. HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--150 mi^2. TRIBUTARY TO.--Peace River.

TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.27 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.60 ft^3/s, $Q_{30,10}$ = 0.02 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02297310 Horse Creek near Arcadia using 5 measurements made during 1980-1981.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02297310 Horse Creek near Arcadia, Fla.

LOCATION.--Lat 27°11'57", long 81°59'19", in NW$\frac{1}{4}$ sec. 2, T.38 S., R.23 E., at bridge on State Highway 72, 7.9 miles west of Arcadia, and 10.4 miles upstream from mouth.

COUNTY.--DeSoto.

HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--218 mi^2.

TRIBUTARY TO.--Peace River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1950 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.2	1.1	1.4	1.7	2.5	5.0	12	22	45
5	.22	.23	.24	.33	.56	1.2	2.5	4.6	8.0
10	.01	.01	.08	.15	.24	.61	1.1	2.1	3.8
20	0	0	.02	.07	.11	.36	.56	1.0	2.1
50	0	0	0	.03	.04	.20	.25	.49	1.1

02298123 Prairie Creek near Fort Ogden, Fla.

LOCATION.--Lat 27°03'06", long 81°47'05", in SE$\frac{1}{4}$ sec.26, T.39 S., R.25 E., at bridge on State Highway 31, 0.4 mile downstream from Myrtle Slough and 10.6 miles east of Fort Ogden.

COUNTY.--DeSoto.

HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--233 mi^2.

TRIBUTARY TO.--Charlotte Harbor.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1963 to September 1968 and October 1977 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	2.1	2.2	2.6	3.0	4.2	7.6	13	20	38
5	.63	.70	.70	1.1	1.5	2.6	4.7	7.2	11
10	.17	.18	.33	.66	.91	1.6	2.8	4.2	6.1
20	0	0	.16	.41	.63	1.1	1.8	2.7	3.6

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02298202 Shell Creek near Punta Gorda, Fla.

LOCATION.--Lat 26°59'04", long 81°56'09", in NW$\frac{1}{4}$ sec.20, T.40 S., R.24 E., near bank 60 feet upstream from dam, 1 mile upstream from Myrtle Slough, and 7.7 miles northeast of Punta Gorda.

COUNTY.--Charlotte.

HYDROLOGIC UNIT.--03100101.

DRAINAGE AREA.--373 mi^2.

TRIBUTARY TO.--Charlotte Harbor.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.-- October 1965 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	1.0	1.2	3.1	7.9	10	22	40	50	73
10	0	0	0	0	0	.92	5.0	11	26

REMARKS.--Flow regulated by concrete dam. No flow at times most years. Diversion by City of Punta Gorda for water supply.

02298608 Myakka River at Myakka City, Fla.

LOCATION.--Lat 27°20'36", long 82°09'25", in SE$\frac{1}{4}$ sec.13, T.36 S., R.21 E., at bridge on State Highway 70, 0.2 mile downstream from Owen Creek and 0.6 mile southeast of Myakka City post office.

COUNTY.--Manatee.

HYDROLOGIC UNIT.--03100102.

DRAINAGE AREA.--125 mi^2.

TRIBUTARY TO.--Charlotte Harbor.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1963 to September 1966 and October 1977 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	.17	.28	.56	.82	1.3	6.2	11	19	40
5	0	0	0	0	.10	.99	6.0	8.2	17]
10	0	0	0	0	.03	.39	4.4	5.3	11
20	0	0	0	0	0	.18	3.1	3.6	7.0

02298709 Howard Creek Tributary near Sarasota, Fla.

LOCATION.--Lat 27°17'10", long 82°18'28", in SE$\frac{1}{4}$ sec. 4, T.37 S., R.20 E., on bank, 1.3 miles above mouth, 3.3 miles south of State Highway 780, and 14.1 miles east of Sarasota.

COUNTY.--Sarasota.

HYDROLOGIC UNIT.--03100102.

DRAINAGE AREA.--6.9 mi^2.

TRIBUTARY TO.--Howard Creek.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.02 ft^3/s, $Q_{7,10}$ = 0.06 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02297155 Horse Creek near Myakka Head using 21 measurements made uring 1984-1987.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02298760 Howard Creek near Sarasota, Fla.

LOCATION.--Lat 27°17'17", long 82°20'25", in SE$\frac{1}{4}$ sec. 6, T.37 S., R.20 E., on bank, 3.2 miles above mouth, 3.4 miles south of State Highway 780, and 12.2 miles east of Sarsota.

COUNTY.--Sarasota.

HYDROLOGIC UNIT.--03100102.

DRAINAGE AREA.--16.8 mi^2.

TRIBUTARY TO.--Lake Myakka.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.14$ ft^3/s, $Q_{7,10} = 0.27$ ft^3/s; $Q_{30,2} = 0$ ft^3/s, $Q_{30,10} = 0.02$ ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02298830 Myakka River near Sarasota using 30 measurements made during 1984-1989.

02298830 Myakka River near Sarasota, Fla.

LOCATION.--Lat 27°14'25", long 82°18'50", in SW$\frac{1}{4}$ sec.21, T.37 S., R.20 E., on bank 0.5 mile upstream from bridge on State Highway 72, 2 miles upstream from Lower Myakka Lake, and 14 miles southeast of Sarasota.

COUNTY.--Sarasota.

HYDROLOGIC UNIT.--03100102.

DRAINAGE AREA.--229 mi^2.

TRIBUTARY TO.--Charlotte Harbor.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1936 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	.46	2.9	9.0	17	45
10	0	0	0	0	0	0	0	0	2.6

REMARKS.--No flow for many days in some years. Flow is unregulated. Significant upward trend in annual low flows.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02299160 Deer Prairie Slough near North Port Charlotte, Fla.

LOCATION.--Lat 27°06'51", long82°15'50", in SW$\frac{1}{4}$ sec. 1, T.39 S., R.20 E., at bridge 1.0 mile north of Interstate 75, 4.5 miles northwest of North Port Charlotte, and 4.6 miles upstream from mouth.

COUNTY.--Sarasota.

HYDROLOGIC UNIT.--03100102.

DRAINAGE AREA.--33.2 mi^2.

TRIBUTARY TO.--Myakka River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1981 to September 1989.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
	0.04	0.04	0.05	0.07	0.18	0.33	0.60	1.2	2.8
	0	0	0	0	0	0	0	.05	.12
	0	0	0	0	0	0	0	0	.02

02299410 Big Slough near Myakka City, Fla.

LOCATION.--Lat 27°11'35", long 82°08'40", in SW$\frac{1}{4}$ sec. 6, T.38 S., R.22 E., at bridge on State Highway 72, 11 miles south of Myakka City.

COUNTY.--Sarasota.

HYDROLOGIC UNIT.--03100102.

DRAINAGE AREA.--36.5 mi^2.

TRIBUTARY TO.--Myakka River.

TYPE OF SITE.--Crest-stage partial-record station and continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1980 to September 1989.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.31	0.32	0.50	0.70	1.0	1.8	3.0	5.4	7.6
5	0	0	.05	.10	.16	.25	.70	1.0	1.9
10	0	0	0	0	.02	.03	.20	.30	.96

REMARKS.--No flow for many days in 1981, and in several days in June 1985.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02299470 Big Slough Canal near Murdock, Fla.

LOCATION.--Lat 27°04'15", long 82°13'05", in NW$\frac{1}{4}$ sec. 21, T.39 S., R.21 E., on bank 3 miles upstream from bridge on U.S. Highway 41, 5.9 miles northwest of Murdock, and 7.1 miles upstream from mouth.

COUNTY.--Sarasota.

HYDROLOGIC UNIT.--03100102.

DRAINAGE AREA.--92.5 mi^2.

TRIBUTARY TO.--Myakka River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1963 to September 1972.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
	0.31	0.32	0.50	0.70	1.0	1.8	3.0	5.4	7.6
	0	0	.05	.10	.16	.25	.70	1.0	1.9
	0	0	0	0	.02	.03	.20	.30	.96

REMARKS.--No flow for many days in 1981, and in several days in June 1985.

02299728 Fox Creek near Laurel, Fla.

LOCATION.--Lat 27°09'54", long 82°25'43", sec. 20, T.38 S., R.19 E., 0.6 mile above bridge on private road, 2.5 miles southeast of Laurel.

COUNTY.--Sarasota.

HYDROLOGIC UNIT.--03100201.

DRAINAGE AREA.--10 mi^2.

TRIBUTARY TO.--Shakett Creek.

TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.01$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 0.01$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02300000 Manatee River near Bradenton using 11 measurements and 1 observation of zero flow during 1962-65.

02299920 North Fork Manatee River near Myakka City, Fla.

LOCATION.--Lat 27°31'50", long 82°10'19", in SE$\frac{1}{4}$ sec. 20, T.33 S., R.22 E., at bridge on State Highway 62, 13 miles north of Myakka City.

COUNTY.--Manatee.

HYDROLOGIC UNIT.--03100202.

DRAINAGE AREA.--16.2 mi^2.

TRIBUTARY TO.--Manatee River.

TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 0$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.

BASIS OF ESTIMATE.--Graphical analysis with 02300100 Little Manatee River near Fort Lonesome, using 5 measurements made during 1965-1981.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02299950 Manatee River near Myakka Head, Fla.

LOCATION.--Lat 27°28'24", long 82°12'41", in SE$\frac{1}{4}$ sec.33, T.34 S., R.21 E., at bridge on State Highway 64, 2.0 miles downstream from confluence of North and East Forks Manatee River, and 8.4 miles west of Myakka Head.

COUNTY.--Manatee.

HYDROLOGIC UNIT.--03100202.

DRAINAGE AREA.--65.3 mi^2.

TRIBUTARY TO.--Tampa Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1966 to September 1984.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.4	1.5	1.6	1.9	2.6	4.4	8.5	9.5	20
5	.46	.49	.58	.73	.88	1.6	2.7	4.8	6.5
10	.25	.27	.35	.44	.50	.90	1.7	3.3	4.3
20	.14	.17	.22	.28	.30	.59	1.3	2.6	2.8

REMARKS.--Since September 1984, extreme low flow affected by ground water pumpage into channel upstream from station by Manatee County Utilities.

02300000 Manatee River near Bradenton, Fla.

LOCATION.--Lat 27°28'30", long 82°18'05", in SW$\frac{1}{4}$ sec.34, T.34 S., R.20 E., on bank 150 feet upstream from bridge on State Highway 675, and 17 miles east of Bradenton.

COUNTY.--Manatee.

HYDROLOGIC UNIT.--03100202.

DRAINAGE AREA.--87.1 mi^2.

TRIBUTARY TO.--Tampa Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1939 to September 1965.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	3.7	3.8	4.0	4.4	5.1	7.8	12	15	25
5	2.5	2.5	2.7	2.9	3.5	4.8	6.8	7.7	11
10	2.0	2.0	2.1	2.3	2.7	3.6	4.9	5.5	8.1
20	1.3	1.4	1.5	1.9	2.1	2.9	3.8	4.1	6.4
50	1.0	1.1	1.1	1.4	1.6	2.0	2.4	3.0	5.2

ACCURACY.--$SE_{7,2}$ = 10 percent, $SE_{7,10}$ = 10 percent; $SE_{30,2}$ = 10 percent, $SE_{30,10}$ = 11 percent.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02300004 Gilley Creek near Rye, Fla.

LOCATION.--Lat 27°30'41", long 82°17'15", in sec.22, T.34 S., R.20 E., at bridge on private road, 2.1 miles east of State Highway 675 and 4.8 miles east of Rye.
COUNTY.--Manatee. HYDROLOGIC UNIT.--03100202.
DRAINAGE AREA.--10.2 mi^2. TRIBUTARY TO.--Lake Manatee.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.58\ ft^3/s$, $Q_{7,10} = 0.75\ ft^3/s$; $Q_{30,2} = 0.30\ ft^3/s$, $Q_{30,10} = 0.39\ ft^3/s$.
BASIS OF ESTIMATE.--Graphical correlation with 02300000 Manatee River near Bradenton using 6 measurements made during 1965-85.

02300029 Braden River near Lorraine, Fla.

LOCATION.--Lat 27°25'04", long 82°23'58", in SW$\frac{1}{4}$ sec.22, T.35 S., R.19 E., on private road, 1.0 miles south of Lorraine and 16.1 miles upstream from mouth.
COUNTY.--Manatee. HYDROLOGIC UNIT.--03100202.
DRAINAGE AREA.--20.1 mi^2. TRIBUTARY TO.--Manatee River.
TYPE OF SITE.--Low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0\ ft^3/s$, $Q_{7,10} = 0\ ft^3/s$; $Q_{30,2} = 0\ ft^3/s$, $Q_{30,10} = 0\ ft^3/s$.
BASIS OF ESTIMATE.--Graphical correlation with 02298608 Myakka River at Myakka City using 3 measurements and 2 observations of zero flow made during 1980-81.

2300032 Braden River near Lorraine, Fla.

LOCATION.--Lat 27°25'20", long 82°25'00", in SE$\frac{1}{4}$ sec.20, T.35 S., R.19 E., 0.7 mile south of State Highway 70, 1.4 miles southwest of Lorraine and 14.8 miles upstream from mouth.
COUNTY.--Mantaee. HYDROLOGIC UNIT.--03100202.
DRAINAGE AREA.--25.8 mi^2. TRIBUTARY TO.--Manatee River.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 1.9\ ft^3/s$, $Q_{7,10} = 2.6\ ft^3/s$; $Q_{30,2} = 0.78\ ft^3/s$, $Q_{30,10} = 1.0\ ft^3/s$.
BASIS OF ESTIMATE.--Graphical analysis with 02299950 Manatee River near Myakka Head using 9 measurements made during 1988-89.

02300100 Little Manatee River near Ft. Lonesome, Fla.

LOCATION.--Lat 27°42'16", long 82°11'53", in NW$\frac{1}{4}$ sec.15, T.32 S., R.21 E., at bridge on State Highway 674, 0.6 mile upstream from Howard Prairie Branch, 3.2 miles wests of Fort Lonesome, and 30 miles upstream from mouth.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100203.
DRAINAGE AREA.--32.9 mi^2. TRIBUTARY TO.--Manatee River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1963 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0.02	0.10	0.51	2.3	3.8	7.0	11
5	0	0	0	0	0	.30	1.4	2.0	3.2
10	0	0	0	0	0	.12	.72	1.1	1.7
20	0	0	0	0	0	.06	.28	.64	1.0
50	0	0	0	0	0	.03	.12	.33	.53

REMARKS.--Small diurnal fluctuation at low flow.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02300120 Pierce Branch near Wimauma, Fla.

LOCATION.--Lat 27°42'17", long 82°13'48", in NW$\frac{1}{4}$ sec.17, T.32 S., R.21 E., at bridge on State Highway 674, 0.9 mile upstream from mouth and 4.4 miles east of Wimauma.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100203.
DRAINAGE AREA.--7.9 mi^2. TRIBUTARY TO.--Little Manatee River.
TYPE OF SITE.--Low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.60 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 0.75 ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02300100 Little Manatee River near Ft. Lonesome using 5 measurements made during 1980-81.

02300130 Carlton Branch near Wimauma, Fla.

LOCATION.--Lat 27°42'16", long 82°15'24", in NE$\frac{1}{4}$ sec. 13, T.32 S., R.20 E., on bank, 100 feet downstream from bridge on State Highway 674, 2.1 miles upstream from mouth, and 2.9 miles east of Wimauma.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100203.
DRAINAGE AREA.--7.86 mi^2. TRIBUTARY TO.--Little Manatee River.
TYPE OF SITE.--Continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 2.9 ft^3/s, $Q_{7,10}$ = 4.1 ft^3/s; $Q_{30,2}$ = 0.01 ft^3/s, $Q_{30,10}$ = 0.41 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02300700 Bullfrog Creek near Wimauma using 12 measurements made during 1987-1989.

02300150 Little Manatee River at State Highway 579 near Wimauma, Fla.

LOCATION.--Lat 27°39'45", long 82°18'05", in SW$\frac{1}{4}$ sec. 27, T.32 S., R.20 E., at bridge on State Highway 579, 3.5 miles south of Wimauma, and 22 miles upstream from mouth.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100203.
DRAINAGE AREA.--74.9 mi^2. TRIBUTARY TO.--Tampa Bay.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 14 ft^3/s, $Q_{7,10}$ = 18 ft^3/s; $Q_{30,2}$ = 3.6 ft^3/s, $Q_{30,10}$ = 4.6 ft^3/s.
BASIS OF ESTIMATE.--Graphical analysis with Little Manatee River near Wimauma using 8 measurements made during 1987-1989.

02300200 South Fork Little Manatee River near Duette, Fla.

LOCATION.--Lat 27°35'25", long 82°10'57", in SW$\frac{1}{4}$ sec. 23, T.33 S., R.21 E., at bridge on county road, 0.5 mile upstream from Graveyard Creek, 3.7 miles west of Duette, and 12 miles upstream from mouth.
COUNTY.--Manatee. HYDROLOGIC UNIT.--03100203.
DRAINAGE AREA.--9.4 mi^2. TRIBUTARY TO.--Little Manatee River.
TYPE OF SITE.--Periodic measurement station, low-flow partial-record station and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0.03 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02300100 Little Manatee River near Fort Lonesome using 12 measurements made during 1965-1981.

02300300 South Fork Little Manatee River near Wimauma, Fla.

LOCATION.--Lat 27°38'57", long 82°17'40", in SE$\frac{1}{4}$ sec. 19, T.32 S., R.20 E., on bank 50 feet upstream from bridge on State Highway 579, 1 mile upstream from mouth, and 4.3 miles south of Wimauma.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100203.
DRAINAGE AREA.--Indeterminate. TRIBUTARY TO.--Little Manatee River.
TYPE OF SITE.--Miscellaneous site, low-flow partial-record station and continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 4.7 ft^3/s, $Q_{7,10}$ = 6.7 ft^3/s; $Q_{30,2}$ = 0.94 ft^3/s, $Q_{30,10}$ = 1.9 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02300500 Little Manatee River near Wimauma using 29 measurements made during 1962-1989.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02300430 Dug Creek near Wimauma, Fla.

LOCATION.--Lat 27°41'25", long 82°20'17", in NE$\frac{1}{4}$ sec. 19, T.32 S., R.20 E., at bridge on county road, 2 miles upstream from mouth, 0.3 mile east of U. S. Highway 301, and 2.7 miles southwest of Wimauma.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100203.
DRAINAGE AREA.--3.6 mi^2, approximately. TRIBUTARY TO.--Little Manatee River.
TYPE OF SITE.--Crest-stage partial-record station, miscellaneous site and continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.33 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.55 ft^3/s, $Q_{30,10}$ = 0.02 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02300700 Bullfrog Creek near Wimauma using 13 measurements made during 1987-89.

02300500 Little Manatee River near Wimauma, Fla.

LOCATION.--Lat 27°40'15", long 82°21'10", in NE$\frac{1}{4}$ sec.25, T.32 S., R.19 E., on bank 25 feet downstream from bridge on U. S. Highway 301, 1.5 miles upstream from Cypress Creek, and 4 miles southwest of Wimauma.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100203.
DRAINAGE AREA.--149 mi^2. TRIBUTARY TO.--Tampa Bay.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1974 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	14	16	19	21	26	33	43	49	60
10	2.8	3.8	4.5	6.9	8.6	10	13	17	22

REMARKS.--Some diversion 3.3 miles upstream from station by Manatee Power Plant since June 1974. Significant upward trend in annual low flows.

02300530 Cypress Creek near Wimauma, Fla.

LOCATION.--Lat 27°42'27", long 82°21'50", in SW$\frac{1}{4}$ sec. 12, T.32 S., R.19 E., at bridge on King's Boulevard, 0.3 mile south of State Highway 674, 2.7 miles upstream from mouth, and 3.5 miles west of Wimauma.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100203.
DRAINAGE AREA.--8.1 mi^2. TRIBUTARY TO.--Little Manatee River.
TYPE OF SITE.--Continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.40 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.87 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02300700 Bullfrog Creek near Wimauma using 54 measurements made during 1983-1989.

02300852 North Prong Alafia River at Mulberry, Fla.

LOCATION.--Lat 27°53'19", long 81°58'26", on line between secs. 11 and 12, T.30 S., R.23 E., at bridge on State Highway 37, and 0.4 mile south of Mulberry.
COUNTY.--Polk. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--63.0 mi^2. TRIBUTARY TO.--Alafia River.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 12 ft^3/s, $Q_{7,10}$ = 2.9 ft^3/s; $Q_{30,2}$ = 15 ft^3/s, $Q_{30,10}$ = 4.7 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation analysis with 02301000 North Prong Alafia River at Keysville using 27 measurements made during 1965-66 and 1980-85.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02300882 North Prong Alafia River near Nichols, Fla.

LOCATION.--Lat 27°53'24", long 82°00'43", in NW$\frac{1}{4}$ sec.9, T.30 S., R.23 E., at railroad bridge, 3.1 miles northwest of Mulberry, and 13.2 miles upstream from confluence with South Prong Alafia River.

COUNTY.--Polk. HYDROLOGIC UNIT.--03100204.

DRAINAGE AREA.--Not determined. TRIBUTARY TO.--Alafia River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 14 ft^3/s, $Q_{7,10}$ = 3.4 ft3/s; $Q_{30,2}$ = 16 ft^3/s, $Q_{30,10}$ = 5.4 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation analysis with 02301000 North Prong Alafia River at Keysville using 12 measurements made during 1984-85.

02300907 Lake Drain near Mulberry, Fla.

LOCATION.--Lat 27°57'30", long 81°58'24", in SE$\frac{1}{4}$ sec.14, T.29 S., R.23 E., at culvert on county road, 0.6 mile south of Medulla and 4.4 miles north of Mulberry.

COUNTY.--Polk. HYDROLOGIC UNIT.--03100204.

DRAINAGE AREA.--3.3 mi^2. TRIBUTARY TO.--Poley Creek.

TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Graphical analysis with 02301000 North Prong Alafia River at Keysville using one observation of zero flow in 1956, and 7 measurements made during 1965-81.

02300930 Poley Creek near Mulberry, Fla.

LOCATION.--Lat 27°55'23", long 82°01'50", in NE$\frac{1}{4}$ sec. 32, T.29 S., R.23 E., at bridge on State Highway 60, 1.6 miles upstream from mouth, 2.3 miles north of Nichols and 4.0 miles northwest of Mulberry.

COUNTY.--Polk. HYDROLOGIC UNIT.--03100204.

DRAINAGE AREA.--25.9 mi^2. TRIBUTARY TO.--North Prong Alafia River.

TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1.0 ft^3/s, $Q_{7,10}$ = 0.08 ft^3/s; $Q_{30,2}$ = 1.4 ft^3/s, $Q_{30,10}$ = 0.19 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02301000 North Prong Alafia River at Keysville using 19 measurements made during 1965-85.

02300978 English Creek near Mulberry, Fla.

LOCATION.--Lat 27°55'36", long 82°03'56", in SW$\frac{1}{4}$ sec. 25, T.29 S., R.22 E., at bridge on State Highway 60, 6.0 miles northwest of Mulberry.

COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100204.

DRAINAGE AREA.--31.4 mi^2. TRIBUTARY TO.--North Prong Alafia River.

TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1.7 ft^3/s, $Q_{7,10}$ = 0.01 ft^3/s; $Q_{30,2}$ = 2.8 ft^3/s, $Q_{30,10}$ = 0.94 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02302500 Blackwater Creek near Knights using 21 measurements made during 1965-85, and two observations of zero flow in 1981 and 1985.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02301000 North Prong Alafia River at Keysville, Fla.

LOCATION.--Lat 27°52'59", long 82°06'03", in SW$\frac{1}{4}$ sec.10, T.30 S., R.22 E., at highway bridge, 1.2 miles north of Keysville, and 4 miles upstream from confluence with South Prong Alafia River.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--135 mi^2, approximately. TRIBUTARY TO.--Alafia River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1950 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	35	37	41	44	48	53	60	66	88
5	17	18	20	22	26	30	38	46	58
10	9.3	10	11	13	17	22	30	38	51
20	4.5	4.7	5.2	6.7	11	17	25	32	46
50	1.5	1.7	1.9	2.9	6.8	13	21	26	43

02301070 South Prong Alafia River near Bradley Junction, Fla.

LOCATION.--Lat 27°46'01", long 81°59'29" in sec.22, T.31 S., R.23 E., at bridge on State Highway 37, 2.0 miles south of Bradley Junction.
COUNTY.--Polk. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--41.3 mi^2. TRIBUTARY TO.--Alafia River.
TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 0$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.
BASIS OF ESTIMATE.--Comparison of hydrologic conditions at index station, 02301300 South Prong Alafia River near Lithia, with 3 observations of zero flow in 1967 and 1981.

02301300 South Prong Alafia River near Lithia, Fla.

LOCATION.--Lat 27°47'47", long 82°07'04", in SW$\frac{1}{4}$ sec. 9, T.31 S., R.22 E., at bridge on county road, 1.2 miles upstream from Halls Branch and 5.0 miles southeast of Lithia.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--107 mi^2. TRIBUTARY TO.--Alafia River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1963 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	10	11	12	14	18	25	32	41	50
5	2.9	3.2	4.0	4.8	7.9	13	18	22	26
10	1.8	1.9	2.4	3.1	5.2	9.4	13	16	20
20	1.2	1.4	1.5	2.2	3.6	6.6	9.3	12	16
50	.78	1.0	.91	1.5	2.4	4.6	6.7	7.2	14

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02301314 Mizelle Creek near Keysville, Fla.

LOCATION.--Lat 27°50'14", long 82°05'17", in SE¼ sec.27, T.30 S., R.22 E., below bridge on county road, 1.7 miles above mouth and 2.0 miles south of Keysville.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--3.69 mi^2. TRIBUTARY TO.--South Prong Alafia River.
TYPE OF SITE.--Continuous-record gaging station, low-flow partial-record station and periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.25$ ft^3/s, $Q_{7,10} = 0.02$ ft^3/s; $Q_{30,2} = 0.44$ ft^3/s, $Q_{30,10} = 0.08$ ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation analysis with 02301300 South Prong Alafia River near Keysville using 47 measurements made during 1969-85.
REMARKS.--Operated as a small-basin flood-hydrograph station during 1969-79.

02301328 Alafia River near Keysville, Fla.

LOCATION.--Lat 27°51'58", long 82°08'38" in SE¼ sec. 18, T.30 S., R.22 E.,at bridge on State Highway 39, 0.6 mile below confluence of North and South Prongs and 3.0 miles west of Keysville.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--277 mi^2. TRIBUTARY TO.--Hillsborough Bay.
TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 38$ ft^3/s, $Q_{7,10} = 13$ ft^3/s; $Q_{30,2} = 51$ ft^3/s, $Q_{30,10} = 19$ ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02301500 Alafia River at Lithia using 9 measurements made during 1965-85.

02301350 Little Alafia River near Hopewell, Fla.

LOCATION.--Lat 27°56'15", long 82°09'23", in SE¼ sec. 24, T.29 S., R.21 E., at culvert on State Highway 60, 3.0 miles west of Hopewell, and 3.2 miles upstream from Turkey Creek.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--8.65 mi^2. TRIBUTARY TO.--Alafia River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1966 to September 1979.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0.01	0.08	0.14	0.30	1.0
5	0	0	0	0	0	0	0	.03	.21
10	0	0	0	0	0	0	0	.01	.09
20	0	0	0	0	0	0	0	0	.04

02301376 Little Alafia River at Durant, Fla.

LOCATION.--Lat 27°53'54", long 82°11'13", in sec. 3, T.30 S., R.21 E., 50 feet below railroad bridge, and 0.7 mile south of Durant.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--20.8 mi^2. TRIBUTARY TO.--Alafia River.
TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.81$ ft^3/s, $Q_{7,10} = 0.06$ ft^3/s; $Q_{30,2} = 1.1$ ft^3/s, $Q_{30,10} = 0.14$ ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation analysis with 02301000 North Prong Alafia River at Keysville using 8 measurements made during 1968-81.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02301500 Alafia River at Lithia, Fla.

LOCATION.--Lat 27°52'19", long 82°12'41", in NE$\frac{1}{4}$ sec.16, T.30 S., R.21 E., at bridge on State Highway 640, 4.3 miles west of Lithia, 2.0 miles upstream from Little Fishhawk Creek, and 16 miles upstream from mouth.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--335 mi^2, approximately. TRIBUTARY TO.--Hillsborough Bay.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1932 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	41	42	44	49	60	80	95	121	161
10	12	14	15	18	22	29	42	49	69

REMARKS.--Flow is unregulated. Significant upward trend in annual low flows.

02301620 Fishhawk Creek near Boyette, Fla.

LOCATION.--Lat 27°49'22", long 82°12'13", in SE$\frac{1}{4}$ sec. 33, T.30 S., R.21 E., at bridge on county road, 1.2 miles east of Boyette, and 5.0 miles above mouth.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--17.4 mi^2. TRIBUTARY TO.--Alafia River.
TYPE OF SITE.--Miscellaneous site, low-flow partial-record station, and periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 0$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02301300 South Prong Alafia River near Lithia using 4 measurements and 5 observations at zero flow made during 1965-85.

02301638 Alafia River near Riverview, Fla.

LOCATION.--Lat 27°51'12", long 82°16'10", in NW$\frac{1}{4}$ sec. 24, T.30 S., R.20 E., at bridge 3.0 miles east of Riverview and 11.3 miles upstream from mouth.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100204.
DRAINAGE AREA.--372 mi^2. TRIBUTARY TO.--Hillsborough Bay.
TYPE OF SITE.--Miscellaneous site and periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 61$ ft^3/s, $Q_{7,10} = 21$ ft^3/s; $Q_{30,2} = 83$ ft^3/s, $Q_{30,10} = 31$ ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02301500 Alafia River at Lithia using 10 measurements made during 1951-85.

02301680 Bell Creek near Riverview, Fla.

LOCATION.--Lat 27°51'12", long 82°16'27", in SE$\frac{1}{4}$ sec.23, T.30 S., R.20 E., at bridge on Boyette Road, 1.0 mile upstream from mouth and 3.3 miles southeast of Riverview.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03010204.
DRAINAGE AREA.--20.1 mi^2. TRIBUTARY TO.--Alafia River.
TYPE OF SITE.--Miscellaneous site, low-flow partial-record station, and periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.11$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 0.18$ ft^3/s, $Q_{30,10} = 0.01$ ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation analysis with 02301000 North Prong Alafia River at Keysville using 21 measurements made during 1964-81.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02301900 Fox Branch near Socrum, Fla.

LOCATION.--Lat 28°10'55", long 82°00'45", in NE$\frac{1}{4}$ sec.33, T.26 S., R.23 E., at bridge on Rock Ridge Road, 1.1 miles northeast of Socrum, and 10 miles north of Lakeland.

COUNTY.--Polk.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--9.5 mi^2, approximately.

TRIBUTARY TO.--Blackwater Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1964 to September 1986.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.04	0.08	0.14	0.28	0.56	0.97	1.5	2.3	3.0
5	0	.0	0	.05	.16	.41	.67	1.0	1.6
10	0	0	0	0	0	.18	.40	.65	1.2
20	0	0	0	0	0	0	.24	.42	.95

ACCURACY.--$SE_{7,2}$ = 46 percent; $SE_{30,2}$ = 23 percent.

REMARKS.--Some diversion at times by pumpage for irrigation.

02301990 Hillsborough River above Crystal Springs near Zephyrhills, Fla.

LOCATION.--Lat 28°11'07", long 82°11'03", in NW$\frac{1}{4}$ sec. 35, T.26 S., R.21 E., at bridge, 1.5 miles west of village of Crystal Springs, and 3 miles south of Zephyrhills.

COUNTY.--Pasco.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--82 mi^2.

TRIBUTARY TO.--Hillsborough Bay.

TYPE OF SITE.--Periodic measurement station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 13 ft^3/s, $Q_{7,10}$ = 15 ft^3/s; $Q_{30,2}$ = 8.9 ft^3/s, $Q_{30,10}$ = 9.6 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02303000 Hillsborough River near Zephyrhills using 38 measurements made during 1983-1989.

ACCURACY.--$SE_{7,2}$ = 33 percent, $SE_{7,10}$ = 35 percent; $SE_{30,2}$ = 32 percent, $SE_{30,10}$ = 34 percent.

REMARKS.--Operated as a continuous-record streamflow station since 1983.

02302010 Hillsborough River below Crystal Springs near Zephyrhills, Fla.

LOCATION.--Lat 28°10'30", long 82°11'20", in SE$\frac{1}{4}$ sec. 34, T.26 S., R.21 E., at bank, 0.2 mile downstream from Crystal Springs, 2.0 miles west of village of Crystal Springs, and 4.0 miles south of Zephyrhills.

COUNTY.--Pasco.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Hillsborough Bay.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 61 ft^3/s, $Q_{7,10}$ = 83 ft^3/s; $Q_{30,2}$ = 52 ft^3/s, $Q_{30,10}$ = 53 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02303000 Hillsborough River near Zephyrhills using 31 measurements made during 1983-1989.

ACCURACY.--$SE_{7,2}$ = 13 percent, $SE_{7,10}$ = 13 percent; $SE_{30,2}$ = 12 percent, $SE_{30,10}$ = 13 percent.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02302260 Itchepakesassa Creek at S-582 near Knights, Fla.

LOCATION.--Lat 28°04'49", long 82°04'24", in NE$\frac{1}{4}$ sec. 2, T.28 S., R.22 E., at bank on State Highway 582, 3.9 miles east of Knights, and 6 miles upstream from mouth.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100205.
DRAINAGE AREA.--34 mi^2. TRIBUTARY TO.--Blackwater Creek.
TYPE OF SITE.--Crest-stage partial-record station, low-flow partial-record station and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 2.8 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 4.2 ft^3/s, $Q_{30,10}$ = 1.0 ft^3/s.
BASIS OF ESTIMATE.--Graphical analysis with 02302500 Blackwater Creek near Knights using 8 measurements made during 1974-81.

02302500 Blackwater Creek near Knights, Fla.

LOCATION.--Lat 28°08'25", long 82°09'00", in NW$\frac{1}{4}$ sec.18, T.27 S., R.22 E., on bank 0.2 mile upstream from State Highway 39, 1.8 miles downstream from Itchepackesassa Creek, 4.4 miles northwest of Knights, and 5.4 miles upstream from mouth.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100205.
DRAINAGE AREA.--110 mi^2, approximately. TRIBUTARY TO.--Hillsborough River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1951 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	2.9	3.7	4.5	5.8	7.2	12	15	20	29
5	.70	.98	1.6	2.3	4.8	5.7	8.1	11	16
10	0	0	.04	.49	1.3	2.7	5.3	7.7	12
20	0	0	0	0	.10	1.0	3.5	5.6	8.8
50	0	0	0	0	0	.24	2.1	3.8	6.0

REMARKS.--No flow for some days in 1977, 1981, and 1985; creek dry some days in 1985.

02303000 Hillsborough River near Zephyrhills, Fla.

LOCATION.--Lat 28°08'59", long 82°13'57", in SW$\frac{1}{4}$ sec. 8, T.27 S., R.21 E., on bank 30 feet downstream from footbridge in Hillsborough River State Park, 1.2 miles downstream from Blackwater Creek, 6.5 miles southwest of Zephyrhills, and 40 miles upstream from mouth.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100205.
DRAINAGE AREA.--220 mi^2, approximately. TRIBUTARY TO.--Hillsborough Bay.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1939 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	68	69	70	71	75	77	88	100	131
5	56	57	58	59	62	63	70	74	80
10	51	52	53	54	56	57	62	64	69
20	46	48	48	48	51	53	56	56	64
50	43	44	44	45	46	50	50	50	60

ACCURACY.--$SE_{7,2}$ = 3 percent, $SE_{7,10}$ = 4 percent; $SE_{30,2}$ = 3 percent, $SE_{30,10}$ = 4 percent.
REMARKS.--High-water diversions above station from the Withlacoochee River basin through the Withlacoochee-Hillsborough overflow near Richland (station no. 023110000).

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02303100 New River near Zephyrhills, Fla.

LOCATION.--Lat 28°09'55", long 82°15'55", in NW$\frac{1}{4}$ sec. 1, T.27 S., R.20 E., near bank 30 feet upstream from bridge on State Highway 579, 1.8 miles upstream from mouth, and 7 miles southwest of Zephyrhills.
COUNTY.--Hillsborough . HYDROLOGIC UNIT.--03100205.
DRAINAGE AREA.--15 mi^2, approximately. TRIBUTARY TO.--Hillsborough River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1964 to September 1974.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0.04	0.15	0.40	1.4
5	0	0	0	0	0	0	0	.01	.10
10	0	0	0	0	0	0	0	0	0

02303130 Busy Branch near Zephyrhills, Fla.

LOCATION.--Lat 28°08'48", long 82°16'48", in SW$\frac{1}{4}$ sec. 11, T.27 S., R.20 E., at bridge on Morris Bridge Road, 2.3 miles above mouth and 8.6 miles southwest of Zephyrhills.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100205.
DRAINAGE AREA.--11 mi^2, approximately. TRIBUTARY TO.--Hillsborough River.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0\ ft^3/s$, $Q_{7,10} = 0\ ft^3/s$; $Q_{30,2} = 0\ ft^3/s$, $Q_{30,10} = 0\ ft^3/s$.
BASIS OF ESTIMATE.--Graphical analysis with 02303350 Trout Creek near Sulphur Springs using 3 measurements and 4 observations of zero flow during 1980-81.

02303200 Pemberton Creek near Dover, Fla.

LOCATION.--Lat 28°01'34", long 82°14'12", in SE$\frac{1}{4}$ sec. 19, T.28 S., R.21 E., at bridge on county road, 1.8 miles above Baker Creek and 2.5 miles northwest of Dover.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100205.
DRAINAGE AREA.--24 mi^2, approximately. TRIBUTARY TO.--Hillsborough River.
TYPE OF SITE.--Continuous-record gaging station, periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 7.4\ ft^3/s$, $Q_{7,10} = 0.72\ ft^3/s$; $Q_{30,2} = 9.3\ ft^3/s$, $Q_{30,10} = 5.6\ ft^3/s$.
BASIS OF ESTIMATE.--Analytical correlation with Blackwater Creek near Knights using 11 measurements made during 1963-81.

02303271 Baker Creek near Thonotosassa, Fla.

LOCATION.--Lat 28°02'52", long 82°16'04", in NW$\frac{1}{4}$ sec. 13, T.28 S., R.20 E., at bridge on State Highway 580, 0.3 mile upstream from Lake Thonotosassa, 1.6 miles southeast of Thonotosassa, and 4.4 miles upstream from Hillsborough River.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100205.
DRAINAGE AREA.--58 mi^2. TRIBUTARY TO.--Hillsborough River.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 5.4\ ft^3/s$, $Q_{7,10} = 0.10\ ft^3/s$; $Q_{30,2} = 8.1\ ft^3/s$, $Q_{30,10} = 3.4\ ft^3/s$.
BASIS OF ESTIMATE.--Analytical correlation with 02302500 Blackwater Creek near Knights using 46 measurements made during 1970-77.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02303300 Flint Creek near Thonotosassa, Fla.

LOCATION.--Lat 28°04'04", long 82°16'03", in NW$\frac{1}{4}$ sec.12, T.28 S., R.20 E., at bridge on State Highway 582, 2.2 miles northeast of Thonotosassa, and 2.8 miles upstream from mouth..

COUNTY.--Hillsborough.

HYDROLOGIC UNIT.--03100205.

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

TRIBUTARY TO.--Hillsborough River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1956 to September 1958 and October 1970 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0.94	1.2	1.4	1.9	3.1	5.9	7.8	11	19
10	0	0	.03	.30	.95	1.8	3.4	3.6	5.7

REMARKS.--Flow regulated by control structure 50 feet upstream.

02303330 Hillsborough River at Morris Branch near Thonotasassa, Fla.

LOCATION.--Lat 28°05'50", long 82°18'45", in NW$\frac{1}{4}$ sec.33, T.27 S., R.20 E., near south bank at fishing camp, 0.1 mile southwest of bridge on State Highway 579, 2.9 miles north of Thonotosassa, and 3.5 miles upstream from Trout Creek.

COUNTY.--Hillsborough.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--375 mi^2, approximately.

TRIBUTARY TO.--Hillsborough Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1972 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	57	59	60	64	68	76	90	100	150
5	46	46	46	49	53	56	58	66	85
10	41	41	41	44	47	49	51	57	69
20	37	37	37	41	43	45	47	51	60

ACCURACY.--$SE_{7,2}$ = 7 percent, $SE_{7,10}$ = 9 percent; $SE_{30,2}$ = 8 percent, $SE_{30,10}$ = 10 percent.

REMARKS.--Since 1985, flow regulated during flood stage by Hillsborough River at Structure S-155 (02303354) 3.0 miles downstream.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02303350 Trout Creek near Sulphur Springs, Fla.

LOCATION.--Lat 28°08'20", long 82°21'50", in SW$\frac{1}{4}$ sec.13, T.27 S., R.19 E., at bridge on State Highway 581, 4.1 miles upstream from mouth, and 9.0 miles northeast of Sulphur Springs.

COUNTY.--Hillsborough.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--23 mi^2, approximately.

TRIBUTARY TO.--Hillsborough River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1974 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0.06	0.29	2.3	4.5
5	0	0	0	0	0	0	0	.03	.72
10	0	0	0	0	0	0	0	0	.13
20	0	0	0	0	0	0	0	0	0

02303352 Trout Creek near Temple Terrace, Fla.

LOCATION.--Lat 28°05'52", long 82°21'30", in NE$\frac{1}{4}$ sec. 36, T.27 S., R.19 E., near bank, 80 feet upstream from wooden bridge, 1.1 miles upstream from mouth, 2.6 miles downstream from State Highway 581, and 4.9 miles northeast of Temple Terrace.

COUNTY.--Hillsborough.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--31 mi^2, approximately.

TRIBUTARY TO.--Hillsborough River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 0$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with Trout Creek near Sulphur Springs using 54 measurements made during 1984-1989.

02303358 Cypress Creek near Darby, Fla.

LOCATION.--Lat 28°22'32", long 82°19'47", in NW$\frac{1}{4}$ sec. 29, T.24 S., R.20 E., at bridge on State Highway 578, miles northeast of Darby, 2.6 miles upstream from Bee Tree Branch, and 4.3 miles northwest of San Antonio.

COUNTY.--Pasco.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--7.11 mi^2.

TRIBUTARY TO.--Hillsborough River.

TYPE OF SITE.--Continuous-record gaging station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 0$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with Cypress Creek near San Antonio using 46 measurements made during 1968-1981.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02303400 Cypress Creek near San Antonio, Fla.

LOCATION.--Lat 28°19'25", long 82°23'03", in SW$\frac{1}{4}$ sec.11, T.25 S., R.19 E., at box culverts on State Highway 52, 6 miles west of San Antonio, 12 miles west of Dade City, and 25 miles upstream from mouth.

COUNTY.--Pasco.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--56.0 mi^2.

TRIBUTARY TO.--Hillsborough River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1964 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0.05	0.09	0.19	0.48	1.4	2.6	6.8
5	0	0	0	0	0	0	.01	.49	1.5
10	0	0	0	0	0	0	0	0	.25
20	0	0	0	0	0	0	0	0	0

02303420 Cypress Creek at Worthington Gardens, Fla.

LOCATION.--Lat 28°11'08", long 82°24'03", in SW$\frac{1}{4}$ sec.27, T.26 S., R.19 E., at abandoned bridge on old State Highway 54, 0.2 mile southwest of Worthington Gardens, and 14 miles upstream from mouth.

COUNTY.--Pasco.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--117 mi^2.

TRIBUTARY TO.--Hillsborough River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1974 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0.01	0.11	2.2	9.0	19
5	0	0	0	0	0	0	.02	.34	4.3
10	0	0	0	0	0	0	0	0	.80
20	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02303800 Cypress Creek near Sulphur Springs, Fla.

LOCATION.--Lat 28°05'20", long 82°24'33", in SE$\frac{1}{4}$ sec.33, T.27 S., R.19 E., at bridge on State Highway 581, 2.5 miles upstream from mouth, and 5.0 miles northeast of town of Sulphur Springs.

COUNTY.--Hillsborough.

HYDROLOGIC UNIT.--03100205.

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

TRIBUTARY TO.--Hillsborough River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1964 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0.03	0.50	4.0	13	36
5	0	0	0	0	0	0	.28	2.5	9.6
10	0	0	0	0	0	0	0	.32	.56
20	0	0	0	0	0	0	0	0	2.2

REMARKS.--Creek dry some days in 1977 and 1985.

02304500 Hillsborough River near Tampa, Fla.

LOCATION.--Lat 28°01'25", long 82°25'40", in NW$\frac{1}{4}$ sec. 29, T.28 S., R.19 E., at control structure for Tampa Reservoir, and 30th Street, 5.4 miles northeast of Tampa, and 10 miles upstream from mouth.

COUNTY.--Hillsborough.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--650 mi^2, approximately.

TRIBUTARY TO.--Hillsborough Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1938 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	5.0	5.0	7.0	9.1	15	33	57	92	194
10	.05	.05	.10	.11	.08	.15	.25	2.3	13

REMARKS.--Flow regulated at station since October 1, 1945, by manipulation of radial gates in spillways and dam by city of Tampa Water Department. Some augmentation at times by pumping from Sulphur Springs at Sulphur Springs into reservoir. Diversion from reservoir 1.3 miles above station by city of Tampa for water supply. Diversion at times since May 1979 from basin into Tampa Bypass Canal during high flow. Significant downward trend in annual low flows.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02305500 Drainage Ditch at Bearss Avenue near Sulphur Springs, Fla.

LOCATION.--Lat 28°05'15", long 82°27'55", in sec.36, T. 27 S, R.18 E., on bank 25 feet downstream from bridge on Bearss Avenue, 0.3 mile west of U. S. Highway 541, and 4.5 miles north of Sulphur Springs Post Office.

COUNTY.--Hillsborough.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--12 mi^2, approximately.

TRIBUTARY TO.--Hillsborough River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1946 to September 1956.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0	0.16	0.26
5	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0

REMARKS.--Diversion channel 0.6 mile upstream from station diverts part of flow at high stages into Lake Magdalene and Sweetwater Creek basin. Since the completion of a dam at the diversion channel on Feb 10, 1953, the amount of flow diverted from the basin was increased.

02306000 Sulphur Springs at Sulphur Springs, Fla.

LOCATION.--Lat 28°01'15", long 82°27'07", in NE$\frac{1}{4}$ sec.25, T.28 S., R.18 E., at swimming pool 100 feet west of U. S. Highway 41, in Sulphur Springs, and 500 feet upstream from Hillsborough River.

COUNTY.--Hillsborough.

HYDROLOGIC UNIT.--03100205.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Hillsborough River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1959 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	9.1	9.3	9.5	10	14	19	27	31	32
10	1.7	2.4	2.4	3.6	3.9	4.6	7.4	10	17

REMARKS.--Flow regulated by operating gates in control at swimming pool outlet at head of springs. Some diversion at times by pumping from the spring pool into Hillsborough River above the dam by the City of Tampa Water Department.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02300700 Bullfrog Creek near Wimauma, Fla.

LOCATION.--Lat 27°47'30", long 82°21'08", in SE$\frac{1}{4}$ sec.12, T.31 S., R.19 E., at bridge on State Highway 672S, 6 miles northwest of Wimauma, and 8.7 miles upstream from mouth.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.
DRAINAGE AREA.--29.1 mi^2. TRIBUTARY TO.--Old Tampa Bay.
TYPE OF SITE.--Crest-stage partial-record station and continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1956 to September 1958 and October 1977 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	2.8	3.2	4.1	5.0	6.6	9.4	11	15	22
5	.73	.82	1.1	1.2	1.8	4.7	6.9	9.5	14
10	.08	.10	.12	.20	.31	1.2	3.2	4.1	11
20	0	0	0	0	.06	.19	.42	.65	.82

02301802 Tampa Bypass Canal at S-160 at Tampa, Fla.

LOCATION.--Lat 27°57'21", long 82°22'15", in SE$\frac{1}{4}$ sec.14, T.29 S., R.19 E., at control structure S-160 on Tampa Bypass Canal, at southeastern city limits of Tampa, 0.3 mile north of State Highway 60, and 3.4 miles upstream from mouth.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.
DRAINAGE AREA.--Indeterminate. TRIBUTARY TO.--Hillsborough River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1974 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	8.2	15	24	30	35	38	40	45	48
10	0	.30	4.4	5.6	7.6	8.3	12	18	28

REMARKS.--Flow regulated at station by manipulation of vertical lift gates and slide gates. Some regulation by structure S-162, 2.3 mi upstream. Appreciable amount of water diverted to canal system from Hillsborough River.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02306289 Lake Magdalene Outlet near Lutz, Fla.

LOCATION.--Lat 28°04'26", long 82°30'01", in SE$\frac{1}{4}$ sec. 4, T.28 S., R.18 E., on bank of canal, 2 feet upstream from V-notch weir, 20 feet downstream from stoplog control structure, 0.1 mile upstream from inlet to Bay Lake, and 5.8 miles southwest of Lutz.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.
DRAINAGE AREA.--2.2 mi^2, approximately. TRIBUTARY TO.--Sweetwater Creek.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1970 to September 1981.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0.01	0.01	0.03
5	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0

02306500 Sweetwater Creek near Sulphur Springs, Fla.

LOCATION.--Lat 28°02'35", long 82°30'42", in SW$\frac{1}{4}$ sec. 16, T.28 S., R.18 E.,
25 feet upstream from culverts on private road, 160 feet upstream from Gunn Highway, 1.7 miles downstream from Lake Ellen, 3.5 miles west of intersection Interstate 75 and Busch Boulevard at Sulphur Springs.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.
DRAINAGE AREA.--7.43 mi°. TRIBUTARY TO.-- Old Tampa Bay.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1951 to September 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0.05	0.07	0.10	0.15	0.25	0.33	0.63	0.87	1.4
10	0	0	0	0	0	.01	.03	.06	.14

REMARKS.--Flow affected by regulation of control structures upstream from station. Since January 1970, flow has been diverted from basin through Channel G to Rocky Creek. Significant upward trend in annual low flows. Creek dry at gage in 1956.

02306717 Rocky Creek near Lutz, Fla.

LOCATION.--Lat 28°09'25", long 82°30'20", in sec. 9, T.27 S., R.18 E., at culvert on Lutz-Lake Fern Road, 3.4 miles west of Lutz.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.
DRAINAGE AREA.--4.7 mi^2. TRIBUTARY TO.--Safety Harbor.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0\ ft^3/s$, $Q_{7,10} = 0\ ft^3/s$; $Q_{30,2} = --\ ft^3/s$, $Q_{30,10} = 0\ ft^3/s$.
BASIS OF ESTIMATE.--Comparison of 3 measurements and 2 observations of zero flow with concurrent flow data at 02307000 Rocky Creek near Sulphur Springs during 1980-81.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02306770 Rocky Creek at Citrus Park, Fla.

LOCATION.--Lat 28°04'42", long 82°33'55", in sec. 1, T.28 S., R.17 E., at bridge on Ehrlich Road, 0.3 mile east of Seaboard Coast Line Railroad and 0.5 mile east of Citrus Park.

COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.

DRAINAGE AREA.--16.7 mi^2. TRIBUTARY TO.--Tampa Bay.

TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} =$ -- ft^3/s, $Q_{30,10} = 0$ ft^3/s.

BASIS OF ESTIMATE.--Comparison of 2 measurements and 4 observations of zero flow with current flow data at 02307000 Rocky Creek near Sulphur Springs during 1980-81.

02306774 Rocky Creek at State Highway 587 at Citrus Park, Fla.

LOCATION.--Lat 28°03'55", long 82°33'57", in NW$\frac{1}{4}$ sec. 12, T.28 S., R.17 E., near bank, 20 feet north of bridge on State Highway 587 (Gunn Highway), 0.2 mile east of intersection Sheldon Road and Gunn Highway, 1.2 miles south of Citrus Park, and 9.0 miles upstream from mouth.

COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.

DRAINAGE AREA.--17.8 mi^2. TRIBUTARY TO.--Old Tampa Bay.

TYPE OF SITE.--Periodic measurement station, low-flow partial-record station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.04$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 3.4$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02307000 Rocky Creek near Sulphur Springs using 10 measurements made during 19870-1989.

ACCURACY.--$SE_{7,2} = 73$ percent; $SE_{30,2} = 70$ percent.

REMARKS.--Operated as a continuous-record streamflow station since 1985.

02306904 Brushy Creek near Sulphur Springs, Fla.

LOCATION.--Lat 28°05'04", long 82°31'00", in sec. 32, T.27 S., R.18 E., at bridge on Ehrlich Road, 2.4 miles west of Lake Magdalene and 5.7 miles northwest of Sulphur Springs.

COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.

DRAINAGE AREA.--6.20 mi^2. TRIBUTARY TO.--Rocky Creek.

TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.09$ ft^3/s, $Q_{7,10} = 0$ $_{ft3/s}$; $Q_{30,2} = 2.2$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02307000 Rocky Creek near Sulfur Springs using 4 measurements made during 1980-81.

02306774 Rocky Creek at State Highway 587 at Citrus Park, Fla.

LOCATION.--Lat 28°03'55", long 82°33'57", in NW$\frac{1}{4}$ sec. 12, T.28 S., R.17 E., near bank, 20 feet north of bridge on State Highway 587 (Gunn Highway), 0.2 mile east of intersection Sheldon Road and Gunn Highway, 1.2 miles south of Citrus Park, and 9.0 miles upstream from mouth.

COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.

DRAINAGE AREA.--17.8 mi^2. TRIBUTARY TO.--Old Tampa Bay.

TYPE OF SITE.--Periodic measurement station, low-flow partial-record station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.04$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 3.4$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02307000 Rocky Creek near Sulphur Springs using 10 measurements made during 1987-1989.

ACCURACY.--$SE_{7,2} = 73$ percent; $SE_{30,2} = 70$ percent.

REMARKS.--Operated as a continuous-record streamflow station since 1985.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02306904 Brushy Creek near Sulphur Springs, Fla.

LOCATION.--Lat 28°05'04", long 82°31'00", in sec. 32, T.27 S., R.18 E., at bridge on Ehrlich Road, 2.4 miles west of Lake Magdalene and 5.7 miles northwest of Sulphur Springs.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.
DRAINAGE AREA.--6.20 mi^2. TRIBUTARY TO.--Rocky Creek.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.09 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 2.2 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02307000 Rocky Creek near Sulphur Springs using 4 measurements made during 1980-1981.

02306910 Brushy Creek near Tampa, Fla.

LOCATION.--Lat 28°04'10", long 82°31'51", in SW$\frac{1}{4}$ sec. 5, T.28 S., R.18 E.,on upstream side of bridge on West Village Drive, 1.0 mile south of Erlich Road, 2.4 miles upstream from mouth, and 6 miles northwest of Tampa.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.
DRAINAGE AREA.--7.16 mi^2. TRIBUTARY TO.--Rocky Creek.
TYPE OF SITE.--Continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1.1 ft^3/s, $Q_{7,10}$ = 0.27 ft^3/s; $Q_{30,2}$ = 1.2 ft^3/s, $Q_{30,10}$ = 0.53 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02307000 Rocky Creek near Sulphur Springs using 31 measurements made during 1983-1987.
ACCURACY.--$SE_{7,2}$ = 60 percent, $SE_{7,10}$ = 83 percent; $SE_{30,2}$ = 57 percent, $SE_{30,10}$ = 70 percent.
REMARKS.--Operated as a continuous-record streamflow station since 1981.

02306927 Brushy Creek Tributary near Citrus Park, Fla.

LOCATION.--Lat 28°04'53", long 82°32'43", in sec. 6, T.28 S., R.18 E., at bridge on Ehrlich Road, 1.5 miles east of Seaboard coast Line Railroad and 1.7 miles east of Citrus Park.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.
DRAINAGE AREA.--1.60 mi^2. TRIBUTARY TO.--Brushy Creek.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.
BASIS OF ESTIMATE.--Comparison of 5 observations of zero flow with hydrologic conditions at 02307000 Rocky Creek near Sulphur Springs during 1980-81.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02307000 Rocky Creek near Sulphur Springs, Fla.

LOCATION.--Lat 28°02'12", long 82°34'34", in NW$\frac{1}{4}$ sec.23, T.28 S., R.17 E., on bank, 75 feet upstream from concrete control. 2.8 miles downstream from Brush Creek, 5.8 miles upstream from mouth, and 7.4 miles west of intersection of Interstate 75 and Busch Boulevard at Sulphur Springs.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.
DRAINAGE AREA.--35 mi^2, approximately. TRIBUTARY TO.--Old Tampa Bay.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1953 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.3	1.5	1.7	1.8	2.5	3.6	5.1	6.8	10
5	.45	.48	.60	.70	1.1	1.9	2.4	3.2	4.5
10	.19	.23	.28	.33	.61	1.4	1.7	2.2	3.3
20	.07	.08	.10	.17	.28	1.0	1.2	1.6	2.5
50	0	0	0	0	.05	.62	.90	1.2	2.0

ACCURACY.--$SE_{7,2}$ = 20 percent, $SE_{7,10}$ = 19 percent; $SE_{30,2}$ = 25 percent, $SE_{30,10}$ = 19 percent.

02307181 Brooker Creek near Lutz, Fla.

LOCATION.--Lat 28°09'31", long 82°32'54", in sec. 6, T.27 S., R.18 E., at culvert on Lutz-Lake Fern Road, 5.3 miles west of Lutz.
COUNTY.--Hillsborough. HYDROLOGIC UNIT.--03100206.
DRAINAGE AREA.--1.14 mi^2. TRIBUTARY TO.--Lake Tarpon.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.
BASIS OF ESTIMATE.--Comparison of 31 observations of zero flow with streamflow conditions at five continuous-record gaging stations during 1946-1953 and 1980-1981.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02307323 Brooker Creek near Lake Fern, Fla.

LOCATION.--Lat 28°08'26", long 82°38'24", in NE$\frac{1}{4}$ sec.18, T.27 S., R.17 E., on bank 20 feet downstream from bridge on State Highway 582, 2.9 miles downstream from Island Ford Lake, 3.7 miles west of Lake Fern, 6 miles northwest of Citrus Park, and 6.5 miles upstream from mouth.

COUNTY.--Hillsborough.

HYDROLOGIC UNIT.--03100206.

DRAINAGE AREA.--17 mi^2, approximately.

TRIBUTARY TO.--Lake Tarpon.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1970 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0	0	0	0.07	0.40
10	0	0	0	0	0	0	0	0	.04

REMARKS.--Some regulation by control structure at outflow of Island Ford Lake (02307295) 2.9 miles upstream. Significant upward trend in annual low flows.

02307359 Brooker Creek near Tarpon Springs, Fla.

LOCATION.--Lat 28°05'45", long 82°41'15", in NE$\frac{1}{4}$ sec.34, T.27 S., R.16 E., on bank 80 feet downstream from bridge on private road, 1.8 miles upstream from mouth, and 5 miles southeast of Tarpon Springs.

COUNTY.--Pinellas.

HYDROLOGIC UNIT.--03100206.

DRAINAGE AREA.--30 mi^2, approximately.

TRIBUTARY TO.--Lake Tarpon.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1950 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0.05	0.36	1.1	4.6
5	0	0	0	0	0	0	0	.07	.77
10	0	0	0	0	0	0	0	.01	.22
20	0	0	0	0	0	0	0	0	.07
50	0	0	0	0	0	0	0	0	.01

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02307498 Lake Tarpon Canal at S-551 near Olsmar, Fla.

LOCATION.--LAT 28'03'10", long 82'42'34", in NW$\frac{1}{4}$ sec. 16, T.28 S., R.16 E., on bank of outfall canal at control structure, 300 feet east of State Highway 593, 1,500 feet north of State Highway 586, and 4 miles northwest of Oldsmar.

COUNTY.--Pinellas.

HYDROLOGIC UNIT.--03100206.

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

TRIBUTARY TO.--Safety Harbor.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1974 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0.02	0.10	0.38	3.3	16
5	0	0	0	0	0	0	.03	.17	6.8
10	0	0	0	0	0	0	0	.04	1.8
20	0	0	0	0	0	0	0	0	.01

REMARKS.--Flow regulated at station by manipulation of vertical lift gates and slide gates.

02307697 Alligator Creek at Safety Harbor, Fla.

LOCATION.--Lat 27°58'45", long 82°41'43", in SW$\frac{1}{4}$ sec.10, T.29 S., R.16 E.,on upstream wingwall of concrete control, 30 feet upstream from bridge on Bayshore Drive and 0.8 mile southwest of Safety Harbor.

COUNTY.--Pinellas.

HYDROLOGIC UNIT.--03100207.

DRAINAGE AREA.--9.0 mi^2, approximately.

TRIBUTARY TO.--Safety Harbor.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1949 to September 1974.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	0	0.10	0.40	0.97	1.7	2.5
10	0	0	0	0	0	0	.04	.20	.81

REMARKS.--Flow is unregulated. Significant upward trend in annual low flows.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02308889 Seminole Lake Outlet near Largo, Fla.

LOCATION.--Lat 27°50'20", long 82°46'50", in sec.27, T.30 S., R.15 E., on south shore of Seminole Lake, 250 feet west of highway bridge across spillway channel and 5.2 miles south of Largo.
COUNTY.--Pinellas.
HYDROLOGIC UNIT.--03100207.
DRAINAGE AREA.--14 mi^2, approximately.
TRIBUTARY TO.--Long Bayou.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1950 to September 1971.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0.35	1.5	4.2
5	0	0	0	0	0	0	0	.08	1.3
10	0	0	0	0	0	0	0	0	.55
20	0	0	0	0	0	0	0	0	.14

REMARKS.--Greater part of inflow to Seminole Lake is regulated by pumps at north dam, 3.0 miles above station. Pumpage at north dam represents natural flow of tributary above dam.

02309648 Anclote River near Fivay Junction, Fla.

LOCATION.--Lat 28°15'23", long 82°31'58", in NW$\frac{1}{4}$ sec. 5, T.26 S., R.18 E., at timber bridge on ranch road, 1.1 miles below small tributary and 4.8 miles south of Fivay Junction.
COUNTY.--Pasco.
HYDROLOGIC UNIT.--03100207.
DRAINAGE AREA.--9.0 mi^2.
TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2} = 0$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 0$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02310300 Pithlachascotee River near New Port Richey using 7 measurements and 2 observations of zero flow made during 1964-1980.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02309848 South Branch Anclote River near Odessa, Fla.

LOCATION.--Lat 28°11'08", long 82°33'13", in SE¼ sec.25, T.26 S., R.17 E., near bank, 30 feet downstream from bridge on State Highway 54, 2.5 miles east of Odessa, and 5.2 miles upstream from mouth.

COUNTY.--Pasco. HYDROLOGIC UNIT.--03100207.

DRAINAGE AREA.--17.1 mi^2. TRIBUTARY TO.--Anclote River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1970 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0	0.08	0.54
5	0	0	0	0	0	0	0	0	.06
10	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0

REMARKS.--River dry at gage many days most years.

02309900 South Branch Anclote River at Odessa, Fla.

LOCATION.--Lat 28°12'15", long 82°35'42", in SW¼ sec. 22, T.26 S., R.17 E.,at timber bridge on ranch road, 0.7 mile north of Odessa and 1.7 miles above mouth.

COUNTY.--Pasco. HYDROLOGIC UNIT.--03100207.

DRAINAGE AREA.--25.3 mi^2. TRIBUTARY TO.--Anclote River.

TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0$ ft^3/s, $Q_{7,10} = 0$ ft^3/s; $Q_{30,2} = 0$ ft^3/s, $Q_{30,10} = 0$ ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02310000 Anclote River near Elfers using 8 measurements and 8 observations of zero flow made during 1964-1980.

02309980 Anclote River near Odessa, Fla.

LOCATION.--Lat 28°13'17", long 82°38'07", in SE¼ sec. 18, T.26 S., R.17 E., on bank, 30 feet downstream from wooden bridge on private road, 3.2 miles northwest of Odessa, and 18 miles upstream from mouth.

COUNTY.--Pasco. HYDROLOGIC UNIT.--03100207.

DRAINAGE AREA.--68.1 mi^2. TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.24$ ft^3/s, $Q_{7,10} = 0.04$ ft^3/s; $Q_{30,2} = 0.36$ ft^3/s, $Q_{30,10} = 0.09$ ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02310000 Anclote River near Elfers using 20 measurements made during 1984-1989.

ACCURACY.--$SE_{7,2} = 45$ percent, $SE_{7,10} = 52$ percent.

REMARKS.--Operated as a continuous-record streamflow station since 1983.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02310000 Anclote River near Elfers, Fla.

LOCATION.--Lat 28°12'50", long 82°40'00", in NE$\frac{1}{4}$ sec.23, T.26 S., R.16 E., on bank 40 feet downstream from bridge on State Highway 54, 3.5 miles east of Elfers, and 16 miles upstream from mouth.
COUNTY.--Pasco. HYDROLOGIC UNIT.--03100207.
DRAINAGE AREA.--72.5 mi^2. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1946 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	2.5	2.5	2.6	2.8	3.1	3.4	4.4	7.8	18
5	1.8	1.8	1.8	2.0	2.2	2.6	3.2	3.8	6.7
10	1.3	1.4	1.5	1.6	1.9	2.3	2.7	3.0	4.6
20	.96	.96	1.1	1.3	1.7	2.0	2.4	2.5	3.3
50	.77	.82	.86	1.0	1.4	1.8	2.0	2.0	2.4

ACCURACY.--$SE_{7,2}$ = 9 percent, $SE_{7,10}$ = 15 percent;

02310147 Hollin Creek near Tarpon Springs, Fla.

LOCATION.--Lat 28°09'44", long 82°42'38", in SW$\frac{1}{4}$ sec. 4, T.27 S., R.16 E., at twin box culverts on abandoned railroad grade, 700 feet northeast of County Road 77, 0.8 mile upstream from mouth and 3.0 miles northeast of Tarpon Springs.
COUNTY.--Pinellas. HYDROLOGIC UNIT.--03100207.
DRAINAGE AREA.--4.4 mi^2, approximately. TRIBUTARY TO.--Anclote River.
TYPE OF SITE.--Continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.16 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.22 ft^3/s, $Q_{30,10}$ = 0.07 ft^3/s.
BASIS OF ESTIMATE.--Frequency analysis of annual low flows using the mean daily record for the period 1982-1989.
REMARKS.--Flow affected by tide some days.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02310240 Jumping Gully at Loyce, Fla.

LOCATION.--Lat 28°23'06", long 82°29'22", in NE$\frac{1}{4}$ sec.22, T.24 S., R.18 E., at bridge on U. S. Highway 41, 100 feet downstream from concrete control at Pasco Lakes Estates, 0.3 mile north of Loyce, 2.7 miles upstream from mouth.

COUNTY.--Pasco. HYDROLOGIC UNIT.--03100207.

DRAINAGE AREA.--43 mi^2, approximately. TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1964 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0	0	0.47
5	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0

REMARKS.--Gully dry at gage for many days in most years.

02310280 Pithlachascotee River near Fivay Junction, Fla.

LOCATION.--Lat 28°19'44", long 82°32'13", in NE$\frac{1}{4}$ sec. 7, T.25 S., R.18 E., at bridge on State Highway 52, 1.2 miles west of Fivay Junction, and 21 miles upstream from mouth.

COUNTY.--Pasco. HYDROLOGIC UNIT.--03100207.

DRAINAGE AREA.--150 mi^2. TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Periodic measurement station, low-flow partial-record station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02310300 Pithlachascotee River near New Port Richey using 37 measurements made during 1981-1989.

REMARKS.--Operated as a continuous-record streamflow station since 1983.

02310285 Five Mile Creek near Fivay Junction, Fla.

LOCATION.--Lat 28°17'20", long 82°31'50", in SW$\frac{1}{4}$ sec. 20, T.25 S., R.18 E., at concrete culverts on sand road, 0.2 mile below small tributary and 2.5 miles south of Fivay Junction.

COUNTY.--Pasco. HYDROLOGIC UNIT.--03100207.

DRAINAGE AREA.--7.05 mi^2. TRIBUTARY TO.--Pithlachascotee River.

TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02303400 Cypress Creek near San Antonio using 10 measurements and 6 observations of zero flow made during 1964-1980.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02310300 Pithlachascotee River near New Port Richey, Fla.

LOCATION.--Lat 28°15'23", long 82°38'33", in NW$\frac{1}{4}$ sec. 6, T.26 S., R.17 E.,near bank just downstream from end of private road, 3.8 miles east of New Port Richey, and 8.5 miles upstream from mouth.

COUNTY.--Pasco. HYDROLOGIC UNIT.--03100207.

DRAINAGE AREA.--180 mi^2. TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0.02\ ft^3/s$, $Q_{7,10} = 0\ ft^3/s$; $Q_{30,2} = 0.15\ ft^3/s$, $Q_{30,10} = 0\ ft^3/s$.

BASIS OF ESTIMATE.--Frequency analysis of annual low flows occurring during 1981-1989 water years. Estimates are supported by analysis of concurrent 7- and 30-day low-flow events at 02310300 Pithlachascotee River near New Port Richey and 02310000 Anclote River near Elfers.

REMARKS.--Station was moved 1.1 mile upstream in May 1981. Because of differences in base flow characteristics, data prior to May 1981 were not included in the analysis. Operated as a continuous-record streamflow station since 1963.

02310787 Withlacoochee River near Poyner, Fla.

LOCATION.--Lat 28°18'21", long 81°47'36", in SE$\frac{1}{4}$ sec. 15, T.25 S., R.25 E., at culvert on private road, 2.8 miles southeast of Eva and 3.8 miles east of Poyner.

COUNTY.-- Polk. HYDROLOGIC UNIT.-- 03100208.

DRAINAGE AREA.-- 16 mi^2. TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = -- ft^3/s$, $Q_{7,10} = 0\ ft^3/s$; $Q_{30,2} = -- ft^3/s$, $Q_{30,10} = -- ft^3/s$.

BASIS OF ESTIMATE.--Comparison of 3 observations of zero flow (all were dry channels) with streamflow conditions at 02236500 Big Creek near Clermont, 02310800 Withlacoochee River near Eva, and 02310947 Withlacoochee River near Cumpressco in 1961 and 1980-81.

02310800 Withlacoochee River near Eva, Fla.

LOCATION.--Lat 28°21'38", long 81°49'08", in NW$\frac{1}{4}$ sec.33, T.24 S., R.25 E., at bridge on State Highway 33, 2.5 miles north of Eva, and 138 miles upstream from mouth.

COUNTY.--Polk. HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--130 mi^2, approximately. TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1958 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0.04	0.07	0.16	0.43	0.89	2.1	4.2	9.6
5	0	0	0	0	0	.07	.38	.76	2.1
10	0	0	0	0	0	.01	.14	.27	.88
20	0	0	0	0	0	0	.06	.11	.41

ACCURACY.--$SE_{7,2} = 48$ percent; $SE_{30,2} = 52$ percent.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02310912 Pony Creek near Poyner, Fla.

LOCATION.--Lat 28° 18'39", long 81° 53'31", in NE$\frac{1}{4}$ sec. 15, T.25 S., R.24 E., at bridge on Rock Ridge Road, 2.3 miles upstream from mouth and 2.4 miles west of Poyner.

COUNTY.--Polk.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--24 mi^2.

TRIBUTARY TO.--Withlacoochee River.

TYPE OF SITE.--Low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Comparison of 2 observations of zero flow (both were dry channels) with streamflow conditions at 02310800 Withlacoochee River near Eva and 02310947 Withlacoochee River near Cumpressco during 1980-81.

02310931 Withlacoochee River near Rock Ridge, Fla.

LOCATION.--Lat 28° 19'32", long 81° 55'56", in NW$\frac{1}{4}$ sec. 8, T.25 S., R.24 E., at bridge on Tannic Road, 1.6 miles north of Rock Ridge and 6.0 miles west of Eva.

COUNTY.--Polk.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--235 mi^2.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02310947 Withlacoochee River near Cumpressco, using 3 measurements and 4 observations (3 dry channels) of zero flow made during 1961-81.

02310931 Withlacoochee River near Rock Ridge, Fla.

LOCATION.--Lat 28° 19'32", long 81° 55'56", in NW$\frac{1}{4}$ sec. 8, T.25 S., R.24 E., at bridge on Tannic Road, 1.6 miles north of Rock Ridge and 6.0 miles west of Eva.

COUNTY.--Polk.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--235 mi^2.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02310947 Withlacoochee River near Cumpressco, using 3 measurements and 4 observations (3 dry channels) of zero flow made during 1961-81.

02310944 Withlacoochee River at Cedar Ford near Cumpressco, Fla.

LOCATION.--Lat 28° 19'20", long 82° 00'24", in SW$\frac{1}{4}$ sec. 10, T.25 S., R.23 E., 3.3 miles southeast of Cumpressco and 9.0 miles northeast of Richland.

COUNTY.--Sumter.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--260 mi^2.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02310800 Withlacoochee River near Eva, using 3 measurements and 1 observation of zero flow made during 1961 and 1980.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02310947 Withlacoochee River near Cumpressco, Fla.

LOCATION.--Lat 28°18'42", long 82°03'22", in NE$\frac{1}{4}$ sec.13, T.25 S., R.22 E., at bridge on State Highway 471, 0.6 mile upstream from Gator Creek, 3.4 miles south of Cumpressco, and 120 miles upstream from mouth.
COUNTY.--Pasco. HYDROLOGIC UNIT.--03100208.
DRAINAGE AREA.--280 mi^2, approximately. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1967 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0.03	0.08	0.14	0.84	3.0	9.1	30
5	0	0	0	0	0	.03	.26	1.5	6.8
10	0	0	0	0	0	0	.06	.51	2.9
20	0	0	0	0	0	0	.01	.18	1.4

ACCURACY.--$SE_{7,2}$ = 66 percent; $SE_{30,2}$ = 83 percent.
REMARKS.--Records are for flow of main channel only, which normally includes all of the flow. Some interconnection with Gator Creek and some diversions to the north probably exist during periods of extreme high water.

02310995 Gator Creek near Richland, Fla.

LOCATION.--Lat 28°18'08", long 82°03'22", in NE$\frac{1}{4}$ sec. 13, T.25 S., R.22 E., at mouth, 5.5 miles east of Richland.
COUNTY.--Pasco. HYDROLOGIC UNIT.--03100208.
DRAINAGE AREA.--80 mi^2. TRIBUTARY TO.--Withlacoochee River.
TYPE OF SITE.--Periodic measurement station and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 1 observation of zero flow with streamflow conditions at 02310800 Withlacoochee River near Eva, 02310947 Withlacoochee River near Cumpressco, and 02302500 Blackwater Creek near Knights in 1980.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02311000 Withlacoochee-Hillsborough Overflow near Richland, Fla.

LOCATION.--Lat 28°16'16", long 82°05'53", in NW$\frac{1}{4}$ sec.34, T.25 S., R.22 E., at bridge on U. S. Highway 98, 0.6 mile south of channel of Withlacoochee River, 2.9 miles east of Richland, and 55 miles upstream from mouth.
COUNTY.--Pasco. HYDROLOGIC UNIT.--03100208.
DRAINAGE AREA.--Indeterminate. TRIBUTARY TO.--Withlacoochee River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1961 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0	0	0.3
5	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0

REMARKS.--Flow is uncontrolled natural diversion from the Withlacoochee River basin to the Hillsborough River basin. Channel dry at gage for many days most years.

02311500 Withlacoochee River near Dade City, Fla.

LOCATION.--Lat 28°21'08", long 82°07'34", in SE$\frac{1}{4}$ sec.32, T.24 S., R.22 E., on bank 50 feet downstream from Lanier Bridge on River Road, 4 miles east of Dade City, and 110 miles upstream from mouth.
COUNTY.--Pasco. HYDROLOGIC UNIT.--03100208.
DRAINAGE AREA.--390 mi^2, approximately. TRIBUTARY TO.--Clear Lake.
TYPE OF SITE.--Periodic measurement station and continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0.49 ft^3/s.
BASIS OF ESTIMATE.--Analytical regression with 02310947 Withlacoochee River near Cumpressco using 41 measurements made during 1983-90.
REMARKS.--Operated as a continuous-record streamflow station since October 1983.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02311890 Gator Hole Slough near Lacoochee, Fla.

LOCATION.--Lat 28° 27'12", long 82° 05'08", in SW$\frac{1}{4}$ sec. 26, T.23 S., R.22 E., at bridge on Burn Bridge Road, 0.4 mile upstream from mouth and 7.0 miles southeast of Lorraine.

COUNTY.--Pasco. HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--40 mi^2. TRIBUTARY TO.--Withlacoochee River.

TYPE OF SITE.--Low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Comparison of 4 observations of zero flow (three were dry channels) with streamflow conditions at 02310800 Withlacoochee River near Eva, 02310947 Withlacoochee River near Cumpressco, 02236500 Big Creek near Clermont, and 02236700 Little Creek near Clermont during 1980-81.

02312000 Withlacoochee River at Trilby, Fla.

LOCATION.--Lat 28°28'47", long 82°10'40", in SE$\frac{1}{4}$ sec.14, T.23 S., R.21 E., on bank at downstream side of bridge on U. S. Highway 301, 1.6 miles northeast of Trilby, 10 miles upstream from Little Withlacoochee River, and 93 miles upstream from mouth.

COUNTY.--Hernando. HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--570 mi^2, approximately. TRIBUTARY TO.--Silver Lake.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1931 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	31	35	36	37	41	49	58	74	138
10	10	10	10	11	14	15	18	22	31

REMARKS.--Records include water diverted from ground-water supplies through Dade City Canal (station 02311700) by citrus processing plants, in sec.23, T.24 S., R.21 E., 5 mi. upstream from Withlacoochee River.

02312140 Bayroot Slough Headwaters near Bay Lake, Fla.

LOCATION.--Lat 28°27'23", long 81°55'14", in NW$\frac{1}{4}$ sec. 28, T.23 S., R.24 E., at bridge on State Highway 565, 0.1 mile upstream from Seaboard Coast Line Railroad bridge, and 1.5 miles southwest of town of Bay Lake.

COUNTY.--Lake. HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--18 mi^2. TRIBUTARY TO.--Little Withlacoochee River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.

BASIS OF ESTIMATE.--Comparison of 19 observations of zero flow (many of which were dry channels) with streamflow conditons at 02310800 Withlacoochee River near Eva, 02310947 Withlacoochee River near Cumpressco, 02236500 Big Creek near Clermont, and 02236700 Little Creek near Clermont during 1984-90.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02312145 Mill Creek near Carters Island, Fla.

LOCATION.--Lat 28°29'40", long 81°54'35", in SE$\frac{1}{4}$ sec. 9, T.23 S., R.24 E., at bridge on State Highway 565, 2.7 miles southeast of Carters Island.
COUNTY.--Lake. HYDROLOGIC UNIT.--03100208.
DRAINAGE AREA.--17 mi^2. TRIBUTARY TO.--Withlacoochee River.
TYPE OF SITE.--Miscellaneous site and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s.
BASIS OF ESTIMATE.--Comparison of 5 observations of zero flow (three of which were dry channels) with streamflow conditions at 02310800 Withlacoochee River near Eva, 02310947 Withlacoochee River near Cumpressco, 02236500 Big Creek near Clermont, and 02236700 Little Creek near Clermont during 1980-81.

02312180 Little Withlacoochee River near Tarrytown, Fla.

LOCATION.--Lat 28°31'17", long 82°03'18", in NE° sec. 1, T.23 S., R.22 E., at bridge on State Highway 471, 2.3 miles south of Tarrytown, 3.1 miles southwest of Linden, and 14 miles upstream from mouth.
COUNTY.--Sumter. HYDROLOGIC UNIT.--03100208.
DRAINAGE AREA.--85 mi^2, approximately. TRIBUTARY TO.--Withlacoochee River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--October 1966 to September 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence Interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0.09	0.30	0.81	7.3
5	0	0	0	0	0	0	0	.03	.67
10	0	0	0	0	0	0	0	0	.01
20	0	0	0	0	0	0	0	0	0

REMARKS.--No flow for many days in most years; river dry at gage for many days in 1967, 1968, 1971, 1977, 1985.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02312200 Little Withlacoochee River at Rerdell, Fla.

LOCATION.--Lat 28°34'21", long 82°09'20", in SE$\frac{1}{4}$ sec.13, T.22 S., R.21 E., at bridge on U. S. Highway 301, 0.2 mile north of Rerdell, and 4.8 miles upstream from mouth.

COUNTY.--Hernando.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--145 mi^2, approximately.

TRIBUTARY TO.--Withlacoochee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1958 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.7	1.8	2.2	2.7	3.0	4.5	6.3	11	22
5	.20	.29	.37	.45	.80	1.0	.89	1.6	4.4
10	0	0	0	0	0	.02	.22	.38	1.6
20	0	0	0	0	0	0	.06	.09	.61

REMARKS.--No flow from many days in 1961, 1962, 1977, 1981, 1985; river dry at gage for many days in 1981.

02312500 Withlacoochee River at Croom, Fla.

LOCATION.--Lat 28°35'33", long 82°13'20", in NE$\frac{1}{4}$ sec.8, T.22 S., R.21 E., on bank at upstream side of abandoned highway bridge, 0.4 mile northwest of Croom, 2.3 miles downstream from Little Withlacoochee River, 4.5 miles southeast of Nobleton, and 77 miles upstream from mouth.

COUNTY.--Hernando.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--810 mi^2, approximately.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1940 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	64	66	69	73	81	91	101	126	182
10	20	20	21	21	27	36	45	48	58

REMARKS.--Records include water diverted from ground-water supplies through Dade City and Evans Canals to the Withlacoochee River.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02312635 Jumper Creek Canal near Sumterville, Fla.

LOCATION.--Lat 28`41'46", long 82`03'18", in NE$\frac{1}{4}$ sec.1 , T.21 S., R.22 E., at bridge on State Highway 471, 3.4 miles south of Sumterville, 4.2 miles northeast of Bushnelll, and 12.9 miles upstream from mouth.

COUNTY.--Sumter.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--28.6 mi .

TRIBUTARY TO.--Withlacoochee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1977 to September 1989.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	4.3	7.1	9.3	9.6	10	14	15	15	16
10	0	0	0	0	0	.11	.67	1.6	6.7

REMARKS.--Flow affected by pumpage into and out of canal upstream and downstream from the station.

02312640 Jumper Creek Canal near Bushnell, Fla.

LOCATION.--Lat 28°41'45", long 82°06'34", in NE$\frac{1}{4}$ sec.4, T.21 S., R.22 E., at bridge on State Highway 475, 2.2 miles north of Bushnell, and 10 miles upstream from mouth.

COUNTY.--Sumter.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--40 mi^2, approximately.

TRIBUTARY TO.--Withlacoochee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1963 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--.

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	8.5	10	13	15	16	17	18	18	23
5	5.0	6.0	7.2	7.5	8.0	9.6	11	13	16
10	2.4	2.4	3.2	3.2	3.4	4.1	6.7	8.7	14
20	.46	.65	.90	.90	.90	1.2	2.7	5.1	10

REMARKS.--Diurnal fluctuation caused by mining operations upstream; daily flows are not affected appreciably.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02312645 Jumper Creek Canal near Wahoo, Fla.

LOCATION.--Lat 28°42'15", long 82°09'26", in SE$\frac{1}{4}$ sec.36, T.20 S., R.21 E., at bank near Bevilles Bridge, 2.5 miles northeast of Wahoo, 3.9 miles northwest of Bushnell, and 5.7 miles upstream from mouth.

COUNTY.--Sumter.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--50.6 mi^2.

TRIBUTARY TO.--Withlacoochee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1979 to September 1989.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	13	13	15	17	19	22	24	25	31
5	4.6	4.8	4.9	5.3	6.1	8.2	13	16	22
10	2.7	2.8	2.8	3.0	3.5	4.0	9.0	12	19

02312690 Chitty Chatty Creek near Wildwood, Fla.

LOCATION.--Lat 28°48'33", long 81°58'59", in NW$\frac{1}{4}$ sec.26, T.19 S., R.23 E., at culverts on county road 468, 2.0 miles upstream from Lake Okahumpka, and 5.0 miles southeast of Wildwood.

COUNTY.--Sumter.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--38 mi^2, approximately.

TRIBUTARY TO.--Lake Okahumpka.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1979 to September 1989.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0	0	0	0	0	0.90	3.0	8.7
5	0	0	0	0	0	0	0	.03	.59
10	0	0	0	0	0	0	0	0	0

REMARKS.--No flow for many days most years.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02312700 Outlet River at Panacoochee Retreats, Fla.

LOCATION.--Lat 28°49'01", long 82°08'40", in SE$\frac{1}{4}$ sec.19, T.19 S., R.22 E., on west shore of Lake Panasoffkee, 0.8 mile north of outlet, 1.3 miles north of Panacoochee Retreats, 2.0 miles upstream from mouth, and 5.1 miles northwest of town of Lake Panasoffkee.

COUNTY.--Sumter. HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--420 mi^2, approximately. TRIBUTARY TO.--Withlacoochee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1964 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	85	87	90	94	110	120	125	130	155
5	53	54	58	63	66	72	76	83	98
10	40	41	45	50	53	55	58	64	74
20	31	32	36	37	40	43	45	50	56

ACCURACY.--$SE_{7,2}$ = 11 percent, $SE_{7,10}$ = 11 percent.

REMARKS.--Prior to 1962, flow partially controlled by small rock dams and at times during 1962-64 by a temporary sheet piling am about 400 ft downstream from bridge on State Highway 470.

02312720 Withlacoochee River at Wysong Dam, at Carlson, Fla.

LOCATION.--Lat 28°49'23", long 82°11'00", in NW$\frac{1}{4}$ sec.23, T.19 S., R.21 E., at downstream end of wall of lock of Wysong Dam, at Carlson, 1.8 miles downstream from Outlet River, 2.7 miles southeast of Rutland, and 55 miles upstream from mouth.

COUNTY.--Sumter. HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--1,520 mi^2, approximately. TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1965 to September 1980 and October 1981 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	197	207	213	225	235	256	279	314	417
5	116	122	127	135	147	165	180	201	266
10	87	91	96	102	114	131	143	159	209
20	68	71	75	80	93	109	118	130	171

ACCURACY.--$SE_{7,2}$ = 14 percent, $SE_{7,10}$ = 16 percent; $SE_{30,2}$ = 13 percent, $SE_{30,10}$ = 16 percent.

REMARKS.--Since August 1965, some regulation by manipulation of inflatable fibri-dam. Inflatable fabri-dam removed June 27, 1988. Some diversions above station at times into Tsala Apopka Lake.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02312975 Tsala Apopka Outfall Canal at S-353, near Hernando, Fla.

LOCATION.--Lat 28°57'19", long 82°20'13", in NE$\frac{1}{4}$ sec. 6, T.18 S., R.20 E., on bank at control structure 353, on graded road 2.3 miles northeast of Hernando, and 2.8 miles upstream from mouth.

COUNTY.--Citrus.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Tsala Apopka Lake.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1969 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	1.4
10	0	0	0	0	0	0	0	0	.03

REMARKS.--Flow regulated by manipulation of gates in spillway. No flow for many days in some years.

02313000 Withlacoochee River near Holder, Fla.

LOCATION.--Lat 28°59'19", long 82°20'59", in NW$\frac{1}{4}$ sec.30, T.17 S., R.20 E., at bridge on State Highway 200, 4.5 miles northeast of Holder, and 38 miles upstream from mouth.

COUNTY.--Marion.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--1,825 mi^2.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1931 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	316	321	331	345	373	407	442	480	591
5	193	197	205	215	233	255	280	308	376
10	149	152	159	168	182	200	221	245	299
20	120	123	129	137	149	163	182	203	248
50	94	96	102	109	118	130	146	164	203

ACCURACY.--$SE_{7,2}$ = 10 percent, $SE_{7,10}$ = 10 percent; $SE_{30,2}$ = 8 percent, $SE_{30,10}$ = 10 percent.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02313100 Rainbow Springs near Dunnellon, Fla.

LOCATION.--Lat 29°06'08", long 82°26'16", in SE$\frac{1}{4}$ sec.12, T.16 S., R.18 E., at head of springs, 3.9 miles north of Dunnellon, and 5.7 miles upstream from mouth.

COUNTY.--Marion.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Withlacoochee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1965 to September 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	639	640	641	642	644	648	652	657	671
5	574	575	576	577	579	583	587	592	608
10	546	547	547	548	550	555	559	563	580
20	525	525	526	527	529	534	538	542	560

ACCURACY.--$SE_{7,2}$ = 3 percent, $SE_{7,10}$ = 5 percent; $SE_{30,2}$ = 3 percent, $SE_{30,10}$ = 5 percent.

02313230 Withlacoochee River at Inglis Dam, near Dunnellon, Fla.

LOCATION.--Lat 29°00'35", long 82°37'01", in SW$\frac{1}{4}$ sec. 8, T.17 S., R.17 E., on bank at upstream side of control structure of Inglis Dam, 3.5 miles southeast of Inglis, 9.8 miles west of Dunnellon, and 11 miles upstream from mouth.

COUNTY.--Levy.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--2,020 mi^2.

TRIBUTARY TO.--Lake Rousseau.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1970 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	70	70	70	70	71	72	73	80	88
10	70	70	70	70	70	70	70	70	70

REMARKS.--Records include flow of springs, approximately 70 ft^3/s just downstream from control structure; spring flow is considered to be mostly leakage from Lake Rousseau. Flow regulated by manipulation of gates in spillway. Since December 1969, entire flow diverted below station from old river channel into Cross-Florida Barge Canal, and diversions above station from Lake Rousseau, for boat lockages, through Cross-Florida Barge Canal and for maintaining flow in old river channel through Withlacoochee River Bypass Channel. Significant upward trend in annual low flows.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02313237 Cross-Florida Barge Canal at Inglis Lock, near Inglis, Fla.

LOCATION.--Lat 29°01'30", long 82°37'00", in SW$\frac{1}{4}$ sec .5, T.17 S., R.17 E., at downstream side of Inglis Lock, 0.8 mile downstream from Lake Rousseau, and 3.2 miles east of Inglis.

COUNTY.--Levy.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1971 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0	0	0	2.4	6.1	8.1	8.8	9.3	9.9
10	0	0	0	0	1.3	3.4	4.0	4.6	5.4

REMARKS.--Discharge at station is a diversion of flow, for boat lockages, from Lake Rousseau and Withlacoochee River into Gulf of Mexico, and is computed using daily volume of water used for lockage.

02313250 Withlacoochee River Bypass Channel near Inglis, Fla.

LOCATION.--Lat 29°01'15", long 82°38'17", in NE$\frac{1}{4}$ sec.12, T.17 S., R.16 E., on bank 90 feet upstream from control structure, 0.1 mile upstream from mouth, and 2 miles east of Inglis.

COUNTY.--Levy.

HYDROLOGIC UNIT.--03100208.

DRAINAGE AREA.--Indeterminate.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--October 1971 to September 1987.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	508	590	625	692	732	778	826	882	1020
10	219	350	384	410	482	510	568	615	727

REMARKS.--Flow regulated by manipulation of gates in spillway; channel completed and flow throught spillway began December 17, 1969.

Table 13. Low-flow characteristics at continuous-record stations, partial-record stations and miscellaneous sites in subregion 10 (Peace, Withlacoochee, Hillsborough Rivers and western coastal area)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02313260 Withlacoochee River Tributary near Inglis, Fla.

LOCATION.--Lat 29° 01'34", long 82° 38'31", in SE$\frac{1}{4}$ sec. 1, T.17 S., R.16 E., at State Highway 40, 0.6 mile upstream from mouth and 1.7 miles east of Inglis.
COUNTY.--Levy.
HYDROLOGIC UNIT.--03100208.
DRAINAGE AREA.--5.1 mi^2.
TRIBUTARY TO.--Withlacoochee River.
TYPE OF SITE.--Low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 3 observations of zero flow (all were dry channels) with streamflow conditions at 02314200 Tenmile Creek at Lebanon Station during 1980-81.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

0231448 Little Waccasassa River near Bronson, Fla.

LOCATION.--Lat 29°28'34", long 82°41'13", in NW$\frac{1}{4}$ sec. 2, T.2S., R.16 E., on U.S. Highway Alternate 27, 2.8 miles upstream from mouth and 3.7 miles northwest of Bronson.
COUNTY.--Levy. HYDROLOGIC UNIT.--03110101.
DRAINAGE AREA.--180 mi^2. TRIBUTARY TO.--Waccasassa River.
TYPE OF SITE.--Crest-stage partial-record station, periodic measurement station, and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0 ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02314200 Tenmile Creek near Lebanon Station using 15 measurements and 15 observations of zero flow during 1973-81.

02313522 Magee Branch near Bronson, Fla.

LOCATION.--Lat 29°21'04", long 82°38'17", in SW$\frac{1}{4}$ sec.17, T.13 S., R.17 E., at culvert on State Highway 343, 6.6 miles south of Bronson and 7.4 miles upstream from mouth.
COUNTY.--Levy. HYDROLOGIC UNIT.--03110101.
DRAINAGE AREA.--43.3 mi^2. TRIBUTARY TO.--Waccasassa River.
TYPE OF SITE.--Low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0 ft^3/s
BASIS OF ESTIMATE.--Comparison of 1 measurement and 5 observations of zero flow with flow data for same period with 02314200 Tenmile Creek near Lebanon Station during 1980-81.

02313700 Waccasassa River near Gulf Hammock, Fla.

LOCATION.--Lat 29°12'14", long 82°46'09", in SW$\frac{1}{4}$ sec.2, T.15 S., R.15 E., near bank at abondoned railroad grade, 0.5 mile upstream from Otter Creek, 3.6 miles upstream from mouth, and 4 miles southwest of Gulf Hammock.
COUNTY.--Levy. HYDROLOGIC UNIT.--03110101.
DRAINAGE AREA.--480 mi^2, approximately. TRIBUTARY TO.--Waccasassa River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1963 to March 1978 and April 1986 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	-130	-33	15	35	57	72	88	110	153
5	-410	-135	-15	20	36	48	57	72	113
10	-630	-215	-35	13	28	38	44	58	103

REMARKS.--Drainage area and flow records include that of Otter Creek. Flow affected by tide.

02314098 Cow Creek near Gulf Hammock, Fla.

LOCATION.--Lat 29°12'37", long 82°14'50", in NW$\frac{1}{4}$ sec.4, T.15 S., R.16 E., at bridge on U.S. Highway 19, 3.3 miles southeast of Gulf Hammock.
COUNTY.--Levy. HYDROLOGIC UNIT.--03110101.
DRAINAGE AREA.--19.5 mi^2. TRIBUTARY TO.--Waccasassa River.
TYPE OF SITE.--Misceallaneous site and low-flow partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0 ft^3/s
BASIS OF ESTIMATE.--Graphical correlation with 02314200 Tenmile Creek near Labanon Station using 3 measurements and 3 observations of zero flow made during 1967-81.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02314134 Sand Slough near Lebanon Station, Fla.

LOCATION.--Lat 29°11'17", long 82°41'01", in SW$\frac{1}{4}$ sec.10, T.1 S., R.16 E., at bridge on U.S. Highway 19, 3.3 miles southeast of Lebanon Station.

COUNTY.--Levy. HYDROLOGIC UNIT.--03110101.

DRAINAGE AREA.--32.3 mi^2. TRIBUTARY TO.--Bullfrog Creek.

TYPE OF SITE.--Misceallaneous site and low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0\ ft^3/s$, $Q_{7,10} = 0\ ft^3/s$; $Q_{30,2} = 0\ ft^3/s$, $Q_{30,10} = 0\ ft^3/s$

BASIS OF ESTIMATE.--Graphical correlation with 02314200 Tenmile Creek near Labanon Station using 3 measurements and 1 observation of zero flow made during 1980-81.

02314170 Tenmile Creek near Dunnellon, Fla.

LOCATION.--Lat 29°06'27", long 82°33'27", in NE$\frac{1}{4}$ sec.11, T.16 S., R.17 E., at culvert on Stat Highway 336, 7.4 m;iles northwest of Dunnellon.

COUNTY.--Levy. HYDROLOGIC UNIT.--03110101.

DRAINAGE AREA.--3.7 mi^2., approximately. TRIBUTARY TO.--Cow Creek.

TYPE OF SITE.--Low-flow partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2} = 0\ ft^3/s$, $Q_{7,10} = 0\ ft^3/s$; $Q_{30,2} = 0\ ft^3/s$, $Q_{30,10} = 0\ ft^3/s$

BASIS OF ESTIMATE.--Graphical correlation with 02314200 Tenmile Creek near Labanon Station using 1 measurement and 4 observation of zero flow made during 1980-81.

02314170 Tenmile Creek at Lebanon Station, Fla.

LOCATION.--Lat 29°09'39", long 82°38'21", in NE$\frac{1}{4}$ sec.24, T.15 S., R.16 E., at bridge on U.S. Highway 19 and 98, 0.2 mile south of Lebanon Station, and 9.4 iles upstram from mouth.

COUNTY.--Levy. HYDROLOGIC UNIT.--03110101.

DRAINAGE AREA.--26 mi^2, approximately. TRIBUTARY TO.--Cow Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1964 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0.07	0.08	0.09	0.10	0.13	0.43	1.6	3.4	15
5	0	0	0	.02	.06	.13	.28	.82	4.8
10	0	0	0	0	.02	.08	.13	.33	2.4
20	0	0	0	0	0	.05	.07	.14	1.2

REMARKS.--Records do not include considerable amount of water diverted naturally above station into Horse Hole Creek.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02314205 Horse Hole Creek near Lebanon Station, Fla.

LOCATION.--Lat 29°08'01", long 82°38'14", in SE$\frac{1}{4}$ sec.36, T.15 S., R.17 E., at bridge on U.S. Highway 19 and 98, 2.1 miles south of Lebanon Station.
COUNTY.--Levy. HYDROLOGIC UNIT.--03110101.
DRAINAGE AREA.--8.1 mi^2. TRIBUTARY TO.--Tenmile Creek.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s
BASIS OF ESTIMATE.--Analytical corelation with 02314200 Tenmile Creek near Lebanon Station using 13 measurements and 4 observations of zero flow made during 1984-87.

02324000 Steinhatchee River near Cross City, Fla.

LOCATION.--Lat 29°47'11", long 83°19'18", in NE$\frac{1}{4}$ sec.16, T.8 S., R.10 E., on bank 0.7 mile downstream from Atlantic Coast Line Railroad bridge, 13 miles upstram from mouth, and 16 miles northwest of Cross City..
COUNTY.--Taylor. HYDROLOGIC UNIT.--03110102.
DRAINAGE AREA.--26 mi^2, approximately. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1950 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	11	12	13	15	20	31	45	70	159
5	5.8	6.1	6.6	7.8	9.6	13	19	30	70
10	4.2	4.4	4.7	5.4	6.4	8.6	13	19	44
20	3.1	3.3	3.5	4.0	4.5	5.9	9.4	13	30
50	2.3	2.4	2.5	2.8	2.9	3.9	6.6	8.5	19

ACCURACY.--$Q_{7,2}$ = 13 percent, $Q_{7,10}$ = 18 percent; $Q_{30,2}$ = 15 percent, $Q_{30,10}$ = 21 percent.

02324400 Fenholloway River near Foley, Fla.

LOCATION.--Lat 30°05'53", long 83°28'19", in NE$\frac{1}{4}$ sec.36, T.4 S., R.8 E., near bank at bridge on U.S. Highway 27, 4 miles northeast of Foley, and 32 miles upstream from mouth.
COUNTY.--Taylor. HYDROLOGIC UNIT.--03110102.
DRAINAGE AREA.--60 mi^2, approximately. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1956 to March 1987.
SAMPLE PERCENTILES OF ANNUAL FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	1.6	1.6	1.7	1.8	2.4	3.5	5.5	8.0	18
10	.75	.77	.82	.85	.96	1.1	1.3	1.7	2.7

REMARKS.--Significant downard trend in annual low flows.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02324500 Fenholloway River at Foley, Fla.

LOCATION.--Lat 30°03'55", long 83°34'29", in NE$\frac{1}{4}$ sec.7, T.5 S., R.8 E., on bridge on U.S. Highway 19, 1.6 miles west of Foley, 2.4 miles downstream from clarifier flume of the Buckey Cellulose Corporation plant, 11.4 miles upstream from Spring Creek, and 24.4 miles upstream from mouth.

COUNTY.--Taylor.

HYDROLOGIC UNIT.--03110102.

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

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1947 to March 1987.

SAMPLE PERCENTILES OF ANNUAL FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	15	18	26	42	64	70	73	75	82
10	5.3	6.0	7.7	10	12	15	17	27	39

REMARKS.--Average flows include ground-water return flow from plant. Use of low-flow estimates are contingent on continued shut-down procedures from plant operations. Significant upward trend in annual low flows.

0232500 Fenholloway River near Perry, Fla.

LOCATION.--Lat 30°04'16", long 82°39"45", in SE$\frac{1}{4}$ sec.6, T.5 S., R.7 E., at bridge on State Highway 356, 5.5 miles southeast of Perry and 14 miles upstream from mouth.

COUNTY.--Taylor.

HYDROLOGIC UNIT.--03110102.

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

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Crest-stage partial-record station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 73 ft^3/s, $Q_{7,10}$ = 36 ft^3/s; $Q_{30,2}$ = 79 ft^3/s, $Q_{30,10}$ = 40 ft^3/s

BASIS OF ESTIMATE.--Graphical correlation with 02325500 Spring Creek near Perry using 20 streamflow measurements made the same day during 1951-54 and 1964-67.

REMARKS.--Operated as a continuous-record streamflow station during 1977-84 and 1984-1987.

02325500 Spring Creek near Perry, Fla.
(formerly Rocky Creek near Perry)

LOCATION.--Lat 30°04'48", long 82°39"47", in SE$\frac{1}{4}$ sec.6, T.5 S., R.7 E., at bridge on State Highway 30 at Hampton Springs, and 0.8 mile upstream from mouth.

COUNTY.--Taylor.

HYDROLOGIC UNIT.--03110102.

DRAINAGE AREA.--90 mi^2.

TRIBUTARY TO.--Fenholloway River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 49 ft^3/s, $Q_{7,10}$ = 25 ft^3/s; $Q_{30,2}$ = 52 ft^3/s, $Q_{30,10}$ = 27 ft^3/s

BASIS OF ESTIMATE.--Analytical corelation with 02326000 Econfina Creek near Perry using 45 measurements made during 1950-80

ACCURACY.--$SE_{7,2}$ = 31 percent, $SE_{7,10}$ = 31 percent; $SE_{30,2}$ = 33 percent, $SE_{30,10}$ = 32 percent.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02325950 Econfina River near Eridu, Fla.

LOCATION.--Lat 30°10'14", long 83°49'26", in NE$\frac{1}{4}$ sec.2, T.3 S., R.6 E., at bridge on U.S. Highway 27, 4.4 miles southeast of Eridu.
COUNTY.--Taylor. HYDROLOGIC UNIT.--03110102.
DRAINAGE AREA.--158 mi^2. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0-.52 ft^3/s, $Q_{7,10}$ = 0.03 ft^3/s; $Q_{30,2}$ = 0.69 ft^3/s, $Q_{30,10}$ = 0.04 ft^3/s
BASIS OF ESTIMATE.--Graphical correlation with 02326000 Econfina River near Perry using 3 measurements made during 1965-67.

02326000 Econfina River near Perry, Fla.

LOCATION.--Lat 30°10'14", long 83°49'26", in NE$\frac{1}{4}$ sec.4, T.4 S., R.5 E., on bridge on country road, 3.9 miles upstream from bridge on U.S. 98 Highway, 14 miles upstream from mouth, and 14.7 miles northwest of Perry.
COUNTY.--Taylor. HYDROLOGIC UNIT.--03110102.
DRAINAGE AREA.--198 mi^2. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1950 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	21	21	22	24	27	27	30	38	63
5	11	12	12	13	14	14	16	19	22
10	7.8	8.3	8.6	9.4	9.8	9.8	12	12	15
20	5.3	5.6	6.1	6.5	7.0	7.0	8.0	8.8	13
50	3.2	3.5	3.8	4.1	4.6	4.6	4.6	6.9	11

ACCURACY.--$Q_{7,2}$ = 12 percent, $Q_{7,10}$ = 9 percent; $Q_{30,2}$ = 12 percent, $Q_{30,10}$ = 11 percent.

02326250 Aucilla River near Aucilla, Fla.

LOCATION.--Lat 30°29'31", long 83°43"53", in NW$\frac{1}{4}$ sec.16, T.1 N., R.6 E., at bridge on State Highway 257, 90, 1.3 miles northeast of Aucilla and 48 miles upstream from mouth.
COUNTY.--Jefferson. HYDROLOGIC UNIT.--03110103.
DRAINAGE AREA.--354 mi^2. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Crest-stage partial-record station and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1.0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 1.4 ft^3/s, $Q_{30,10}$ = 0 ft^3/s
BASIS OF ESTIMATE.--Graphical relation with 02326500 Aucilla River at Lamont using 7 measurements made during 1956-73.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02326389 Wolf Creek at State Highway 158 near Aucilla, Fla.

LOCATION.--Lat 30°29'29", long 83°47"12", in NW$\frac{1}{4}$ sec.13, T.1 N., R.5 E., at bridge on State Highway 158, 2 miles northwest of Aucilla.
COUNTY.--Jefferson. HYDROLOGIC UNIT.--03110103.
DRAINAGE AREA.--37.4 mi^2. TRIBUTARY TO.--Aucilla River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s
BASIS OF ESTIMATE.--Comparison of 3 observations of zero flow to flow conditions at index stations 02326000 Econfina Creek near Perry and 02326500 Aucilla River at Lamont in 1966-67 and 1981.

02326391 Wolf Creek near Aucilla, Fla.

LOCATION.--Lat 30°28'00", long 83°45"42", in SE$\frac{1}{4}$ sec.19, T.1 N ., R.6 E., at bridge on State Highway 257, 0.8 mile south of Aucilla.
COUNTY.--Jefferson. HYDROLOGIC UNIT.--03110103.
DRAINAGE AREA.--42.5 mi^2. TRIBUTARY TO.--Aucilla River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0 ft^3/s
BASIS OF ESTIMATE.--Comparison of 2 observations of zero flow to flow conditions at index stations, 02326000 Econfina Creek near Perry and 02326500 Aucilla River at Lamont in 1956 and 1966.

02326494 Beasley Creek near Lamont, Fla.

LOCATION.--Lat 30°33'33", long 83°48"41", in SE$\frac{1}{4}$ sec.15, T.1 S., R.5 E., at bridge on State Highway 257, 1.2 miles north of Lamont .
COUNTY.--Jefferson. HYDROLOGIC UNIT.--03110103.
DRAINAGE AREA.--53.3 mi^2. TRIBUTARY TO.--Aucilla River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0 ft^3/s
BASIS OF ESTIMATE.--Graphical relation with 02326500 Aucilla River at Lamont using 2 measurements and 2 observations of zero flow in 1956 and 1965-67.

02326500 Aucilla River at Lamont, Fla.

LOCATION.--Lat 30°22'11", long 83°48"25", in NE$\frac{1}{4}$ sec.27, T.1 S., R.5 E., at bridge on U.S. Highway 19, 0.6 mile southeast of Lamont and 34 miles upstream mouth.
COUNTY.--Madison. HYDROLOGIC UNIT.--03110103.
DRAINAGE AREA.--747 mi^2. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1950 to March 1979.
MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	14	15	15	16	17	20	25	33	61
5	3.0	3.2	3.4	3.7	3.9	5.8	9.0	11	12
10	0	0	0	0	.10	1.8	2.2	2.3	3.3
20	0	0	0	0	0	.20	.32	.43	.96

REMARKS.--Pumpage above and below station for irrigation during dry seasons. Low-head dam constructed 0.6 mile below gaging station in 1963.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02326512 Aucilla River near Scanlon, Fla.

LOCATION.--Lat 30°13'52", long 83°48"25", in SW$\frac{1}{4}$ sec.10, T.3 S., R.4 E., on bank, 3 miles west of Cabbage Grove, 6.9 miles north of Scanlon, 12 miles southwest of Lamont, and 14 miles upstream from mouth.

COUNTY.--Taylor.

HYDROLOGIC UNIT.--03110103.

DRAINAGE AREA.--805 mi^2.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1977 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	14	15	15	16	17	20	25	33	61
5	3.0	3.2	3.4	3.7	3.9	5.8	9.0	11	12
10	0	0	0	0	.10	1.8	2.2	2.3	3.3
20	0	0	0	0	0	.20	.32	.43	.96

ACCURACY.--$SE_{7,2}$ = 9 percent, $SE_{7,10}$ = 14 percent; $SE_{30,2}$ = 13 percent, $SE_{30,10}$ = 21 percent.

02326526 Wacissa River near Wacissa, Fla.

LOCATION.--Lat 30°18'04", long 83°58"47", in NE$\frac{1}{4}$ sec.24, T.2 S ., R.3 E., near bank, 2.1 miles upstream from Welaunee Creek, and 4.0 miles south of Wacissa.

COUNTY.--Jefferson.

HYDROLOGIC UNIT.--03110103.

DRAINAGE AREA.--Not determined

TRIBUTARY TO.--Aucilla River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 289 ft^3/s, $Q_{7,10}$ = 236 ft^3/s; $Q_{30,2}$ = 305 ft^3/s, $Q_{30,10}$ = 247 ft^3/s

BASIS OF ESTIMATE.--Correlation analysis with 02326900 St. Marks River near Newport using 27 measurements made during 1971-76.

ACCURACY.--$SE_{7,2}$ = 20 percent, $SE_{7,10}$ = 24 percent; $SE_{30,2}$ = 19 percent, $SE_{30,10}$ = 23 percent.

02326529 Welaunee Creek near Capps, Fla.

LOCATION.--Lat 30°20'25", long 83°54"50", in NE$\frac{1}{4}$ sec.3, T.2 S ., R.4 E., at bridge on country road, 5.0 miles south of Capps.

COUNTY.--Jefferson.

HYDROLOGIC UNIT.--03110103.

DRAINAGE AREA.-- 98.9 mi^2.

TRIBUTARY TO.--Aucilla River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0 ft^3/s

BASIS OF ESTIMATE.--Graphical relation with 02326500 Aucilla River at Lamont using 2 measurements and 2 observations of zero flow during 1956 and 1965-67.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02314986 Rocky Creek near Belmont, Fla.

LOCATION.--Lat 30°32'40", long 82°44"02", in SE$\frac{1}{4}$ sec.29, T.2 N ., R.16 E., at bridge on Woodpecker Road, 1.4 miles upstream from mouth, and 3.0 miles north of Belmont.
COUNTY.--Hamilton. HYDROLOGIC UNIT.--03110201.
DRAINAGE AREA.-- 50 mi^2, approximately. TRIBUTARY TO.--Suwannee River.
TYPE OF SITE.--Periodic measurement station and continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.11 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.24 ft^3/s, $Q_{30,10}$ = 0 ft^3/s
BASIS OF ESTIMATE.--Analytical correlation with 02229000 Middle Prong St. Mary's River at Taylor using 17 measurements and 2 observations of zero flow during 1978-82.
ACCURACY.--$SE_{7,2}$ = 180 percent; $SE_{30,2}$ = 165 percent
REMARKS.--Operated as a continuous-record streamflow station during 1976-82.

02315000 Suwannee River near Benton, Fla.

LOCATION.--Lat 30°30'26", long 82°42"59", in NE$\frac{1}{4}$ sec.9, T.1 N ., R.16 E., at bridge on State Highway 6, 3.7 miles northeast of Benton and 196 miles upstream from mouth.
COUNTY.--Columbia. HYDROLOGIC UNIT.--03110201.
DRAINAGE AREA.-- 2,090 mi^2, approximately. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 47 ft^3/s, $Q_{7,10}$ = 4.0 ft^3/s; $Q_{30,2}$ = 60 ft^3/s, $Q_{30,10}$ = 6.4 ft^3/s
BASIS OF ESTIMATE.--Analytical correlation with 02315500 Suwannee River at White Springs using 63 measurements made during 1975-87.
REMARKS.--Operated as a continuous-record streamflow station since 1975.

02315200 Deep Creek near Suwannee Valley, Fla.

LOCATION.--Lat 30°21'55", long 82°37"13", in NW$\frac{1}{4}$ sec.33, T.1 S., R.17 E., at bridge on State Highway 441, 4.0 miles upstream from mouth, and 7.2 miles northeast of Suwannee Valley.
COUNTY.--Columbia. HYDROLOGIC UNIT.--03110201.
DRAINAGE AREA.-- 88.6 mi^2. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.41 ft^3/s, $Q_{7,10}$ = 0.08 ft^3/s; $Q_{30,2}$ = 0.69 ft^3/s, $Q_{30,10}$ = 0.13 ft^3/s
BASIS OF ESTIMATE.--Analytical correlation with 02229000 Middle Prong St. Marys Rivers at Taylor using 17 measurements made during 1978-81.
ACCURACY.--$SE_{7,2}$ = 124 percent, $SE_{7,10}$ = 144 percent; $SE_{30,2}$ = 134 percent, $SE_{30,10}$ = 144 percent.
REMARKS.--Operated as a continuous-record streamflow station during 1976-81.

02315392 Robinson Creek near Suwannee Valley, Fla.

LOCATION.--Lat 30°18'56", long 82°38"41", in SW$\frac{1}{4}$ sec.17, T.2 S., R.17 E., at bridge on State Highway 246, 3.4 miles upstream from mouth, and 4.1 miles east of Suwannee Valley.
COUNTY.--Columbia. HYDROLOGIC UNIT.--03110201.
DRAINAGE AREA.-- 27.4 mi^2. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.20 ft^3/s, $Q_{7,10}$ = 0.04 ft^3/s; $Q_{30,2}$ = 0.35 ft^3/s, $Q_{30,10}$ = 0.07 ft^3/s
BASIS OF ESTIMATE.--Analytical correlation with 02229000 Middle Prong St. Marys Rivers at Taylor using 29 measurements and 1 observation of zero flow during 1976-82.
ACCURACY.--$SE_{7,2}$ = 156 percent, $SE_{7,10}$ = 192 percent; $SE_{30,2}$ = 148 percent, $SE_{30,10}$ = 180 percent.
REMARKS.--Operated as a continuous-record streamflow station during 1976-81.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02315500 Suwannee River at White Springs, Fla.

LOCATION.--Lat 30°19'32", long 83°44"18", in SW$\frac{1}{4}$ sec.8, T.2 S., R.16 E., on left bank near bridge on U.S. Highway 41, 1.0 mile southeast of White Springs and 171 miles upstream from mouth.

COUNTY.--Columbia.

HYDROLOGIC UNIT.--03110201.

DRAINAGE AREA.--2,430 mi^2., approximately.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1907 to March 1908 and April 1927 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	77	80	84	90	104	132	226	330	648
5	17	17	18	20	27	36	57	94	176
10	9.4	9.4	10	11	15	20	28	46	82
20	6.6	6.8	7.4	7.7	9.7	13	17	24	40
50	4.9	5.3	5.4	5.7	6.5	8.2	9.2	11	16

02315532 Rocky Creek near Houston, Fla.

LOCATION.--Lat 30°18'56", long 82°50"42", in NW$\frac{1}{4}$ sec.17, T.2 S., R.15 E., at bridge on State Highway 136, 2.5 miles upstream from mouth, 5.3 miles northeast of Houston.

COUNTY.--Suwannee.

HYDROLOGIC UNIT.--03110201.

DRAINAGE AREA.-- 25.3 mi^2.

TRIBUTARY TO.--Suwannee River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s

BASIS OF ESTIMATE.--Compsrison of 4 zero flow observations with daily flow record at 02229000 Middle Prong St. Marys River at Taylor and 02315392 Robinson Creek near Suwannee Valley during 1978 and 1981.

02315542 Camp Branch near Genoa, Fla.

LOCATION.--Lat 30°24'25", long 82°51"54", in NE$\frac{1}{4}$ sec.13, T.1 S., R.14 E., on State Highway S-132, 1.8 miles west of Genoa, and 3.5 miles upstream from mouth.

COUNTY.--Hamilton.

HYDROLOGIC UNIT.--03110201.

DRAINAGE AREA.-- 6.1 mi^2.

TRIBUTARY TO.--Suwannee River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = 0 ft^3/s

BASIS OF ESTIMATE.--Compsrison of 7 observations of zero flow with 02315392 Robinson Creek near Suwannee Valley during 1978-81.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02315500 Suwannee River at Suwannee Springs, Fla.

LOCATION.--Lat 30°23'34", long 82°56"00", in NE$\frac{1}{4}$ sec.20, T.1 S., R.14 E., at river bank in town of Suwannee Springs, and 150 miles upstream from mouth.

COUNTY.--Suwannee.

HYDROLOGIC UNIT.--03110201.

DRAINAGE AREA.-- 2,630 mi^2., approximately.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Periodic measurement station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 200 ft^3/s, $Q_{7,10}$ = 53 ft^3/s; $Q_{30,2}$ = 228 ft^3/s, $Q_{30,10}$ = 68 ft^3/s

BASIS OF ESTIMATE.--Analytical correlation with 02315500 Suwannee River at White Springs using 22 measurements made below 500 cfs during 1961-89.

REMARKS.--Operated as a continuous-record streamflow station since October 1974.

301929082465500 Suwannee River near White Springs, Fla.

LOCATION.--Lat 30°19'28", long 82°56"00", in NE$\frac{1}{4}$ sec.20, T.1 S., R.14 E., at river bank in town of Suwannee Springs, and 150 miles upstream from mouth.

COUNTY.--Columbia.

HYDROLOGIC UNIT.--03110201.

DRAINAGE AREA.-- Not determined.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 95 ft^3/s, $Q_{7,10}$ = 13 ft^3/s; $Q_{30,2}$ = 118 ft^3/s, $Q_{30,10}$ = 18 ft^3/s

BASIS OF ESTIMATE.--Graphical correlation with 02315500 Suwannee River at White Springs using 4 measurements made during 1977-78.

30202508284400 Suwannee River below Blue Sink near White Springs, Fla.

LOCATION.--Lat 30°19'28", long 82°46"44", in SE$\frac{1}{4}$ sec.11, T.2 S., R.15 E., miles southwest of White Springs and 4.4 miles southeast of Genoa.

COUNTY.--Suwannee.

HYDROLOGIC UNIT.--03110201.

DRAINAGE AREA.-- Not determined.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 102 ft^3/s, $Q_{7,10}$ = 18 ft^3/s; $Q_{30,2}$ = 122 ft^3/s, $Q_{30,10}$ = 25 ft^3/s

BASIS OF ESTIMATE.--Graphical correlation with 02315500 Suwannee River at White Springs using 4 measurements made during 1977-78.

302547083043700 Suwannee River near Ellaville, Fla.

LOCATION.--Lat 30°25'47", long 83°04"37", in NW$\frac{1}{4}$ sec.1, T.1 S., R.12 E., 6.4 miles northeast of Ellaville, and 8.6 miles northwest of Suwannee Springs.

COUNTY.--Suwannee.

HYDROLOGIC UNIT.--03110201.

DRAINAGE AREA.-- Not determined.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 405 ft^3/s, $Q_{7,10}$ = 210 ft^3/s; $Q_{30,2}$ = 435 ft^3/s, $Q_{30,10}$ = 275 ft^3/s

BASIS OF ESTIMATE.--Graphical correlation with 02315550 Suwannee River at Suwannee Spirngs using 4 measurements made during 1977-78.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02317620 Alapaha River near Jennings, Fla.

LOCATION.--Lat 30°35'53", long 80°04"24", in $SE\frac{1}{4}$ sec.32, T.2 N., R.12 E., at bridge on State Highway 150, 1.6 miles southeast of Jennings, and 20 miles upstream from mouth.

COUNTY.--Hamilton. HYDROLOGIC UNIT.--03110202.

DRAINAGE AREA.-- 1,680 mi^2, approximately. TRIBUTARY TO.--Suwannee River.

TYPE OF SITE.--Miscellaneous site and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 81 ft^3/s, $Q_{7,10}$ = 42 ft^3/s; $Q_{30,2}$ = 97 ft^3/s, $Q_{30,10}$ = 46 ft^3/s

BASIS OF ESTIMATE.--Analytical correlation with 02317500 Alapaha River at Statenville, Ga., using 21 measurements made during 1977-87.

ACCURACY.--$SE_{7,2}$ = 19 percent, $SE_{7,10}$ = 21 percent; $SE_{30,2}$ = 19 percent, $SE_{30,10}$ = 22 percent.

REMARKS.--Operated as a continous-record streamflow station during 1976-84.

02317630 Alapaha River near Jasper Fla.

LOCATION.--Lat 30°31'42", long 82°02"17", in $SE\frac{1}{4}$ sec.32, T.2 N., R.13 E., at bridge on U.S. Highway 41, 5.4 miles west of Jasper and 11 miles upsream from mouth.

COUNTY.--Hamilton. HYDROLOGIC UNIT.--03110202.

DRAINAGE AREA.-- 1,720 mi^2, approximately. TRIBUTARY TO.--Suwannee River.

TYPE OF SITE.--Crest-stage partial-record station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0 ft^3/s, $Q_{30,10}$ = 0 ft^3/s

BASIS OF ESTIMATE.--Relation of concurrent flow data with 02317500 Alapaha River at Statenville, Ga., using 15 measurements and 14 observations of zero flow during 1948-84.

REMARKS.--At low-water stages the Alapaha River enters a group of sinks seven miles above the gaging station, mixes with the ground-water flow, and reappears 18 miles downstream near the Suwannee River.

02319000 Withlacoochee River near Pinetta, Fla.

LOCATION.--Lat 30°35'43", long 83°15"35", in $NW\frac{1}{4}$ sec.7, T.2 N., R.11 E., on bank near bridge, 5.6 miles east of Pinetta, and 22 miles upstream mouth.

COUNTY.--Madison. HYDROLOGIC UNIT.--03110203.

DRAINAGE AREA.--2,120 mi^2., approximately. TRIBUTARY TO.--Suwannee River.

TYPE OF SITE.--Continuous-recrod gaging station.

PERIOD OF RECORD ANALYZED.--April 1932 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	140	142	145	150	163	192	234	290	461
5	106	108	110	113	118	129	143	167	241
10	94	95	97	100	103	109	116	129	174
20	85	86	89	92	94	96	100	106	133
50	77	78	81	85	86	86	87	87	99

ACCURACY.--$SE_{7,2}$ = 6 percent, $SE_{7,10}$ = 9 percent; $SE_{30,2}$ = 7 percent, $SE_{30,10}$ = 12 percent.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02319500 Suwannee River at Ellaville, Fla.

LOCATION.--Lat 30°23'04", long 83°10"19", in NE$\frac{1}{4}$ sec.24, T.1 S., R.11 E., at bank at Ellaville, near railroad bridge, 200 feet downstream from Withlacoochee River, 0.2 mile upstream from bridge on U.S. Highway 90, and 127 miles upstream from mouth.

COUNTY.--Suwannee.

HYDROLOGIC UNIT.--03110205.

DRAINAGE AREA.--6,970 mi^2, approximately.

TRIBUTARY TO.--Gulf of Mexico..

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1927 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1,640	1,650	1,670	1,700	1,790	1,970	2,170	2,420	3,110
5	1,210	1,220	1,230	1,240	1,280	1,360	1,460	1,600	1,960
10	1,050	1,060	1,070	1,080	1,100	1,140	1,220	1,320	1,570
20	949	954	964	971	979	1,000	1,070	1,150	1,320
50	852	856	866	871	871	878	929	990	1,100

ACCURACY.--$SE_{7,2}$ = 5 percent, $SE_{7,10}$ = 9 percent; $SE_{30,2}$ = 6 percent, $SE_{30,10}$ = 10 percent.

2319800 Suwannee River at Dowling Park, Fla.

LOCATION.--Lat 30°14'41", long 83°14"59", in NW$\frac{1}{4}$ sec.8, T.3S., R.11 E., near bridge on State Highway 250 at Dowling Park and 112 miles upstream from mouth.

COUNTY.--Lafayette.

HYDROLOGIC UNIT.--03110205.

DRAINAGE AREA.-- 7,190 mi^2.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Crest-stage partial-record station and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1,800 ft^3/s, $Q_{7,10}$ = 1,150 ft^3/s; $Q_{30,2}$ = 1,950 ft^3/s, $Q_{30,10}$ = 1,200 ft^3/s

BASIS OF ESTIMATE.--Graphical correlation with 02319500 Suwannee River at Ellaville using 4 measurements made during 1954-77.

2320000 Suwannee River at Luravil.., Fla.

LOCATION.--Lat 30°05'59", long 83°10"18", in NE$\frac{1}{4}$ sec.36, T.4S., R.11 E., at bridge on State Highway 51, 1.6 miles south of luraville, and 97 miles upstream from mouth.

COUNTY.--Suwannee.

HYDROLOGIC UNIT.--03110205.

DRAINAGE AREA.-- 7,330 mi^2.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 2,170 ft^3/s, $Q_{7,10}$ = 1,460 ft^3/s; $Q_{30,2}$ = 2,270 ft^3/s, $Q_{30,10}$ = 1,470 ft^3/s

BASIS OF ESTIMATE.--Frequency analysis of 10 years of annual low flows. Flows adjusted for long-term hydrologic conditions by correlation analysis with 02319500 Suwannee River at Ellaville.

ACCURACY.--$SE_{7,2}$ = 13 percent, $SE_{7,10}$ = 21 percent; $SE_{30,2}$ = 13 percent, $SE_{30,10}$ = 20 percent.

REMARKS.--Operated as a continuous-record gaging station during 1927-37.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02320500 Suwannee River at Branford, Fla.

LOCATION.--Lat 29°57'20", long 82°55"40", in NE$\frac{1}{4}$ sec.20, T.6 S., R.14 E., at bridge on U.S. Highways 27 and 129 at Branford, 10.2 miles upstream from Santa Fe River, and 75 miles upstream from mouth.

COUNTY.--Suwannee.

HYDROLOGIC UNIT.--03110205.

DRAINAGE AREA.--7,880 mi^2.

TRIBUTARY TO.--Gulf of Mexico..

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1932 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	2,580	2,590	2,620	2,650	2,720	2,910	3,110	3,350	4,070
5	2,020	2,040	2,050	2,070	2,100	2,190	2,310	2,450	2,870
10	1,800	1,810	1,830	1,840	1,860	1,920	2,010	2,120	2,410
20	1,650	1,660	1,670	1,680	1,700	1,740	1,810	1,900	2,100
50	1,500	1,510	1,520	1,530	1,540	1,560	1,630	1,700	1,810

ACCURACY.--$Q_{7,2}$ = 5 percent, $Q_{7,10}$ = 7 percent; $Q_{30,2}$ = 5 percent, $Q_{30,10}$ = 7 percent.

02320500 Suwannee River near Bell, Fla.

LOCATION.--Lat 29°48', long 82°55', in sec.16 or 17, T.8 S., R.14E., at bank at Rock Bluff Ferry, 4.5 miles northwest of Bell, and 10 miles downstream from Santa Fe River.

COUNTY.--Gilchrist.

HYDROLOGIC UNIT.--03110205.

DRAINAGE AREA.--9,390 mi^2.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1934 to March 1956.

MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	4,050	4,080	4,120	4,170	4,260	4,490	4,730	5,000	5,900
5	3,220	3,250	3,300	3,380	3,380	3,500	3,630	3,810	4,330
10	2,890	2,910	2,960	3,000	3,030	3,110	3,200	3,850	3,690
20	2,650	2,680	2,730	2,760	2,790	2,850	3,100	3,020	3,240

ACCURACY.--$Q_{7,2}$ = 6 percent, $Q_{7,10}$ = 10 percent; $Q_{30,2}$ = 7 percent, $Q_{30,10}$ = 10 percent.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02323500 Suwannee River near Wilcox, Fla.

LOCATION.--Lat 29°35'22", long 82°25'12", in NW$\frac{1}{4}$ sec. 29, T.10 S., R.14 E., on bank near bridge on U.S. Highway 19, 2.0 miles southwest of Wilcox, and 33 miles upstream from mouth.
COUNTY.--Levy.
HYDROLOGIC UNIT.--03110205.
DRAINAGE AREA.--9,640 mi^2.
TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1942 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	4,940	5,150	5,300	5,410	5,530	5,790	6,080	6,380	7,220
5	4,050	4,250	4,3890	4,470	4,550	4,820	4,820	4,980	5,450
10	3,700	3,880	4,000	4,080	4,140	4,320	4,320	4,420	4,730
20	3,450	3,620	3,720	3,800	3,850	3,970	3,970	4,030	4,220
50	3,220	3,370	3,460	3,530	3,570	3,630	3,630	3,650	3,720

ACCURACY.--$Q_{7,2}$ = 4 percent, $Q_{7,10}$ = 6 percent; $Q_{30,2}$ = 5 percent, $Q_{30,10}$ = 6 percent.
REMARKS.--Flow are affected by tide.

02320700 Santa Fe River near Graham, Fla.

LOCATION.--Lat 29°50'46", long 82°13'11", in NE$\frac{1}{4}$ sec.32, T.7 S., R.21 E., at bridge on State Highway 225, 1.0 mile south of Graham, 1.5 miles upstream from Sampson River, and 71 miles upstream from mouth.
COUNTY.--Alachua.
HYDROLOGIC UNIT.--03110206.
DRAINAGE AREA.--94.9 mi^2.
TRIBUTARY TO.--Suwannee River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1958 to March 1987.
SAMPLE PERCENTILES OF ANNUAL FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	0.56	0.62	0.74	0.94	1.7	2.5	5.3	10	22
10	.06	.06	.07	.10	.15	.21	.40	.96	3.1

REMARKS--Significant downward trend in annual low flows

2320732 Alligator Creek at Starke, Fla.

LOCATION.--Lat 29°56'10", long 82°06"43", in NW$\frac{1}{4}$ sec.33, T.4S., R.22 E., at bridge on State Highway 30 at Starke, and 13 miles upstream from mouth.
COUNTY.--Bradford.
HYDROLOGIC UNIT.--03110206.
DRAINAGE AREA.-- 19.4 mi^2.
TRIBUTARY TO.--Lake Rowell.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ =3.2 ft^3/s, $Q_{7,10}$ = 0.3 ft^3/s; $Q_{30,2}$ = 8.0 ft^3/s, $Q_{30,10}$ = 1.1 ft^3/s
BASIS OF ESTIMATE.--Graphical correlation with 02321000 New River near Lake Butler using 5 measurements made during 1956-67, and 2 measurements made in 1989.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02320800 Sampson River at Sampson, Fla.

LOCATION.--Lat 29°55'07", long 82°12"39", in NW$\frac{1}{4}$ sec.4, T.7S., R.21 E., at culvert on State Highway 225, 0.4 mile downstream from Lake sampson, 5.9 miles upstream from mouth, and 6.3 miles southwest of Starke.

COUNTY.--Bradford.

HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.-- 59.7 mi^2.

TRIBUTARY TO.--Santa Fe River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ =4.2 ft^3/s, $Q_{7,10}$ = 0.32 ft^3/s; $Q_{30,2}$ = 10 ft^3/s, $Q_{30,10}$ = 0.75 ft^3/s

BASIS OF ESTIMATE.--Analytical correlations with 02320700 Santa Fe River near Graham using 14 measurements made during 1975-77, and 2 measurements made in 1989.

ACCURACY.--$SE_{7,2}$ = 100 percent, $SE_{7,10}$ = 121 percent; $SE_{30,2}$ = 98 percent, $SE_{30,10}$ = 111 percent.

02321000 New River near Lake Butler, Fla.

LOCATION.--Lat 29°59'53", long 82°16'27", in SW$\frac{1}{4}$ sec.2, T.6 S., R.20 E., at bridge on State Highway 100, 4.5 miles southeast of Lake Butler, and 14 miles upstream of mouth.

COUNTY.--Union.

HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.--193 mi^2.

TRIBUTARY TO.--Santa Fe River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1950 to March 1971.

SAMPLE PERCENTILES OF ANNUAL FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	1.7	1.9	2.2	2.7	3.7	6.8	12	23	74
10	.45	.48	.56	.77	1.2	1.7	2.7	4.5	9.4

REMARKS--Significant upward trend in annual low flows.

02321200 Richard Creek near Lake Butler, Fla.

LOCATION.--Lat 30°01'10", long 82°18"59", in NE$\frac{1}{4}$ sec.32, T.5S., R.20 E., at State Highway 100, 1.7 miles east of Lake Butler, and 4.9 miles upstream from mouth.

COUNTY.--Union.

HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.-- 13.9 mi^2.

TRIBUTARY TO.--New River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ =0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s

BASIS OF ESTIMATE.--Graphical correlation with 02321000 New River near Lake Butler using 3 measurements and 6 observations of zero flow during 1958-67 and 1989.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

02321500 Santa Fe River at Worthington Springs, Fla.

LOCATION.--Lat 29°55'18", long 82°25'35", in SE$\frac{1}{4}$ sec.32, T.6 S., R.19 E., at bridge on State Highway 121, 0.5 mile south of Worthington Springs, 0.8 mile downstream from New River, and 51 miles upstream from mouth.

COUNTY.--Alachua.

HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.--575 mi^2.

TRIBUTARY TO.--Suwannee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1933 to March 1987.

SAMPLE PERCENTILES OF ANNUAL FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	12	12	14	16	22	33	52	90	205
10	2.3	2.6	3.3	4.4	6.5	9.6	14	22	50

REMARKS--Significant upward trend in annual low flows

02321600 Olustee Creek near Lulu, Fla.

LOCATION.--Lat 30°05'42", long 82°28"25", in SW$\frac{1}{4}$ sec.36, T.4 S., R.18 E., at bridge on State Highway 100, 1.4 miles southeast of Lulu, 7.4 miles upstream from Swift Creek, and 18 miles upstream from mouth..

COUNTY.--Columbia.

HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.-- 49.1 mi^2.

TRIBUTARY TO.--Santa Fe River.

TYPE OF SITE.--Crest-stage partial-record station and miscellaneous site..

LOW-FLOW FREQUENCY.--$Q_{7,2}$ =40.20 ft^3/s, $Q_{7,10}$ = 0.02 ft^3/s; $Q_{30,2}$ = 0.44 ft^3/s, $Q_{30,10}$ = 0.03 ft^3/s

BASIS OF ESTIMATE.--Analytical correlations with 02321500 Santa Fe River at Worthington Springs using 19 measurements made during 1965-77.

ACCURACY.--$SE_{7,2}$ = 73 percent, $SE_{7,10}$ = 82 percent; $SE_{30,2}$ = 71 percent, $SE_{30,10}$ = 80 percent.

02321700 Swift Creek near Lake Butler, Fla.

LOCATION.--Lat 30°03'28", long 82°25"10", in NW$\frac{1}{4}$ sec.16, T.5 S., R.19 E., at bridge on State Highway 100 at Guilford, 5 miles northwest of Lake Butler, and 8.1 miles upstream from mouth.

COUNTY.--Union.

HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.-- 46.0 mi^2.

TRIBUTARY TO.--Olustee Creek.

TYPE OF SITE.--Continuous-record gaging station, crest-stage partial-record station, and miscellaneous site..

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.12 ft^3/s, $Q_{30,10}$ = 0.02 ft^3/s

BASIS OF ESTIMATE.--Analytical correlations with 02321000 New River near Lake Butler using 22 measurements made during 1957-71.

REMARKS.--Operated as a continuous-record streamflow station during 1957-60.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02321800 Olustee Creek near Providence, Fla.

LOCATION.--Lat 30°00'14", long 82°34"20", in NW$\frac{1}{4}$ sec.1, T.6 S., R.17 E., at bridge on State Highway 238, 1.5 miles west of Providence, and 13.8 miles west of Lake Butler.

COUNTY.--Union. HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.-- 163 mi^2. TRIBUTARY TO.--Santa Fe River.

TYPE OF SITE.--Continuous-record gaging station, crest-stage partial-record station, and miscellaneous site..

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s

BASIS OF ESTIMATE.--Graphical correlation with 02321000 New River near lake Butler using 4 measurements and 5 observations of zero flow during 1957-71 and 1989.

REMARKS.--Operated as a continuous-record streamflow station during 1957-60.

02321898 Santa Fe River at O'Leno State Park, Fla.

LOCATION.--Lat 29°54'51", long 82°34"48", in NE$\frac{1}{4}$ sec.1, T.7 S., R.17 E., at suspended bridge in Park, 0.4 mile upstream from where river enters sink, 6.1 miles north of High Springs, and 36 miles upstream from mouth.

COUNTY.--Alachua. HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.-- 820 mi^2. TRIBUTARY TO.--Suwannee River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 33 ft^3/s, $Q_{7,10}$ = 9.7 ft^3/s; $Q_{30,2}$ = 48 ft^3/s, $Q_{30,10}$ = 12 ft^3/s

BASIS OF ESTIMATE.--Analytical correlation with 02321500 Santa Fe River at Worthington springs using 49 measurements made during 1977-82.

ACCURACY.--$SE_{7,2}$ = 64 percent, $SE_{7,10}$ = 74 percent; $SE_{30,2}$ = 62 percent, $SE_{30,10}$ = 72 percent.

02322000 Santa Fe River near High Springs, Fla.

LOCATION.--Lat 29°50'33", long 82°37'52", in NE$\frac{1}{4}$ sec. 32, T.7 S., R.17 E., at bridge on U.S. Highway 27, 100 ft upstream from Seaboard Coast Line Railroad bridge, and 2 miles northwest of High Springs.

COUNTY.--Columbia. HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.--950 mi^2. TRIBUTARY TO.--Suwannee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1931 to March 1971.

MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	218	220	226	240	225	267	330	360	560
5	120	125	126	132	134	148	178	200	275
10	80	83	83	87	89	100	119	135	185
20	53	54	54	57	60	68	82	96	127
50	26	26	26	28	32	37	44	53	68

ACCURACY.--$Q_{7,2}$ = 12 percent, $Q_{7,10}$ = 12 percent; $Q_{30,2}$ = 12 percent, $Q_{30,10}$ = 12 percent.

REMARKS.--Adjusted for upward trend in annual low flows.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02322500 Santa Fe River near Fort White, Fla.

LOCATION.--Lat 29°50'55", long 82°42'55", in SE$\frac{1}{4}$ sec. 28, T.7 S., R.16 E., on left bank 2.1 miles upstream from bridge on State Highway 47, 5.1 miles south of Fort White, and 18 miles upstream from mouth.

COUNTY.--Gilchrist. HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.--1,020 mi^2. TRIBUTARY TO.--Suwannee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1928 to March 1929, and April 1933 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	967	971	976	985	1,010	1,030	1,080	1,130	1,310
5	808	810	814	820	832	853	893	925	1030
10	738	740	743	748	758	778	817	840	911
20	687	688	691	695	704	724	762	779	824
50	635	636	638	642	650	671	708	719	739

ACCURACY.--$Q_{7,2}$ = 3 percent, $Q_{7,10}$ = 5 percent; $Q_{30,2}$ = 4 percent, $Q_{30,10}$ = 5 percent.

02322590 Cow Creek near Fort White, Fla.

LOCATION.--Lat 29°54'51", long 82°34"48", in NE$\frac{1}{4}$ sec.1, T.7 S., R.17 E., at suspended bridge in Park, 0.4 mile upstream from where river enters sink, 6.1 miles north of High Springs, and 36 miles upstream from mouth.

COUNTY.--Gilchrist. HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.-- 89 mi^2, approximately. TRIBUTARY TO.--Suwannee River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.94 ft^3/s, $Q_{7,10}$ = 0.61 ft^3/s; $Q_{30,2}$ = 1.1 ft^3/s, $Q_{30,10}$ = 0.66 ft^3/s

BASIS OF ESTIMATE.--Graphical correlation with 02321500 Santa Fe River at Worthington Springs using 8 measurements made during 1975-77 and 1989.

02322660 Rose Creek near Columbia, Fla.

LOCATION.--Lat 30°04'23", long 82°40"38", in NW$\frac{1}{4}$ sec.12, T.5 S., R.16 E., at bridge on county road, 1.3 miles east of Columbia.

COUNTY.--Columbia. HYDROLOGIC UNIT.--03110206.

DRAINAGE AREA.-- 26.2 mi^2. TRIBUTARY TO.--Sink Hole.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = -- ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s

BASIS OF ESTIMATE.--Graphical correlation with 02320700 Santa Fe River near Graham using 6 measurements and 7 observations at zero flow during 1975-77.

Table 14. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 11 (Suwannee and Aucilla Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02322800 Santa Fe River near Hildreth, Fla.

LOCATION.--Lat 29°54'41", long 82°51"38", in NE$\frac{1}{4}$ sec.6, T.7 S., R.15 E., at bridge on U.S. Highway 129, 4.4 miles southeast of Hildreth and 2.4 miles upstream from mouth.
COUNTY.--Gilchrist. HYDROLOGIC UNIT.--03110206.
DRAINAGE AREA.-- 1,370 mi^2. TRIBUTARY TO.--Suwannee River.
TYPE OF SITE.--Continuous-record gaging station (river stage only), and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1,830 ft^3/s, $Q_{7,10}$ = 1,200 ft^3/s; $Q_{30,2}$ = 1,900 ft^3/s, $Q_{30,10}$ = 1,270 ft^3/s
BASIS OF ESTIMATE.--Graphical correlation with 02322500 Santa Fe River near Fort White using 3 measurements made in 1956 and 1977.
REMARKS.--Station serves as auxillary water-stage record to gaging station Santa Fe River near Fort White.

Table 15. Low-flow characteristics at continuous-record stations, and partial-record stations, and miscellaneous sites in subregion 12 (Ochlockonee River)

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02326576 Ward Creek at Alma, Fla.

LOCATION.--Lat 30°36'17", long 83°53'36", in NE¼ sec.2, T.2N., R.4E., at bridge on State Highway 259, 0.9 mile southeast of Alma.
COUNTY.--Jefferson. HYDROLOGIC UNIT.--03120001.
DRAINAGE AREA.--Undetermined. TRIBUTARY TO.--Lake Miccosukee.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 4 observations of zero flow in 1965, 1967, and 1981 with hydrologic conditions at index stations at the Econfina, Aucilla, and Little Rivers.

02326592 Dry Creek near Miccosukee, Fla.

LOCATION.--Lat 30°38'16", long 84°02'43", in NE¼ sec.29, T.3N., R.3E., on State Highway 59, 3.1 miles north of Miccosukee.
COUNTY.--Leon. HYDROLOGIC UNIT.--03120001.
DRAINAGE AREA.--18 mi^2. TRIBUTARY TO.--Lake Miccosukee.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Comparison of 4 observations of zero flow in 1956, 1965, 1966, and 1967 with hydrologic conditions at index stations on the Econfina, Aucilla, and Little Rivers.

02326700 Lloyd Creek at Lloyd, Fla.

LOCATION.--Lat 30°28'41", long 84°00'31", in SE¼ sec.15, T.1N., R.3E., at bridge on State Highway 158, 0.8 mile east of Lloyd, 1.3 miles upstream from mouth.
COUNTY.--Jefferson. HYDROLOGIC UNIT.--03120001.
DRAINAGE AREA.--31.2 mi^2. TRIBUTARY TO.--Alfred Branch.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 4.5 ft^3/s, $Q_{7,10}$ = 1.7 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329500 Little River near Quincy using 37 measurements made during 1964-81.
ACCURACY.--$SE_{7,2}$ = 79 percent, $SE_{7,10}$ = 109 percent.

02326900 St. Marks River near Newport, Fla.

LOCATION.--Lat 30°16'00", long 84°09'00", in SE¼ sec.32, T.2S., R.2E., at bridge on bank 0.9 mile downstream from Rhodes Springs 6 miles north of newport, 11 miles upstream from Wakulla River, and 14 miles upstream from mouth.
COUNTY.--Wakulla. HYDROLOGIC UNIT.--03120001.
DRAINAGE AREA.--535 mi^2. TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record station.
PERIOD OF RECORD ANALYZED.--.April 1957 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	417	420	423	430	448	465	490	508	567
5	356	358	363	370	383	396	412	428	472
10	331	332	338	347	357	367	379	396	432
20	313	315	322	331	338	346	355	373	402
50	296	297	305	315	319	326	332	351	373

ACCURACY.--$SE_{7,2}$ = 4 percent, $SE_{7,10}$ = 7 percent; $SE_{30,2}$ = 4 percent, $SE_{30,10}$ = 6 percent.

Table 15. Low-flow characteristics at continuous-record stations, and partial-record stations, and miscellaneous sites in subregion 12 (Ochlockonee River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02327033 Lost Creek at Arran, Fla.

LOCATION.--Lat 30°11'17", long 84°24'30", in SE$\frac{1}{4}$ sec.26, T.3S., R.2W., at bridge on State Highway 368, 0.5 mile east of Arran.
COUNTY.--Wakulla. HYDROLOGIC UNIT.--03120001.
DRAINAGE AREA.--70.4 mi^2. TRIBUTARY TO.--Sink Hole.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 2.4 ft^3/s, $Q_{7,10}$ = 1.5 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02327100 Sopchoppy River near Sopchoppy using 7 measurements made during 1966-81.

02327050 Sopchoppy River near Arran, Fla.

LOCATION.--Lat 30°13'50", long 84°32'20", in SW$\frac{1}{4}$ sec.9, T.3S., R.3W., at bridge on U.S. Forest Service Road 315, 7.9 miles northwest of Arran.
COUNTY.--Wakulla. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--51.1 mi^2. TRIBUTARY TO.--Ochlockonee Bay.
TYPE OF SITE.--Crest-stage partial-record station and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.01 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = 0.04 ft^3/s, $Q_{30,10}$ = 0.01 ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02327100 Sopchoppy River near Sopchoppy using 7 measurements and 1 observation of zero flow during 1965-81.

02327100 Sopchoppy River near Sopchoppy, Fla.

LOCATION.--Lat 30°07'45", long 84°29'40", in NW$\frac{1}{4}$ sec.24, T.4S., R.3W., Apalachicola National Forest, at bridge on U.S. Forest Road 3456A, 4.7 miles north of Sopchoppy, and 24 miles upstream from mouth.
COUNTY.--Wakulla. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--102 mi^2. TRIBUTARY TO.--Ochlockonee Bay.
TYPE OF SITE.--Crest-stage partial-record station and continuous record gaging station.
PERIOD OF RECORD ANALYZED.--April 1965 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1.9	1.9	2.2	2.4	3.0	6.6	16	45	107
5	1.3	1.3	1.5	1.7	2.2	2.9	6.0	16	48
10	1.1	1.1	1.2	1.5	1.9	2.6	4.0	8.8	28
20	1.0	1.0	1.1	1.4	1.7	2.4	3.0	5.0	17

ACCURACY.--$SE_{7,2}$ = 14 percent, $SE_{7,10}$ = 23 percent.
REMARKS.--Operated as a crest-stage partial-record station during 1961-64.

02328522 Ochlockonee River near Concord, Fla.

LOCATION.--Lat 30°40'08", long 84°18'19", in SW$\frac{1}{4}$ sec.11, T.3N., R.1W., at bridge on State Highway 12, 3.7 miles east of Concord.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--1,002 mi^2. TRIBUTARY TO.--Ochlockonee Bay.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 68 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 86 ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02329000 Ochlockonee River near Havana using 4 measurements made during 1976-77.

Table 15. Low-flow characteristics at continuous-record stations, and partial-record stations, and miscellaneous sites in subregion 12 (Ochlockonee River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02329000 Ochlockonee River near Havana, Fla.

LOCATION.--Lat 30°33'14", long 84°23'03", in SE$\frac{1}{4}$ sec.24, T.2N., R.2W., on bridge on U.S. Highway 27, 5.0 miles southeast of Havana, and 94 miles upstream from mouth.
COUNTY.--Leon.
HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--1,140 mi^2, approximately.
TRIBUTARY TO.--Ochlockonee Bay.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1927 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	65	66	70	76	96	133	174	225	348
5	38	39	40	43	51	67	84	108	176
10	29	30	31	33	37	47	58	73	123
20	24	24	25	26	28	35	42	53	90
50	18	19	19	20	21	25	30	37	64

ACCURACY.--$SE_{7,2}$ = 9 percent, $SE_{7,10}$ = 13 percent; $SE_{30,2}$ = 11percent, $SE_{30,10}$ = 13 percent.

02329352 Attapulgus Creek at Jamieson, Fla.

LOCATION.--Lat 30°39'46", long 84°27'48", in NW$\frac{1}{4}$ sec.17, T.3N., R.2W., on bank at State Highway 159, and 0.7 mile west of Jamieson.
COUNTY.--Gadsden.
HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--95.6 mi^2.
TRIBUTARY TO.--Ochlockonee River.
TYPE OF SITE.--Periodic measurement station and crest-stage partial-record station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 20 ft^3/s, $Q_{7,10}$ = 8.8 ft^3/s; $Q_{30,2}$ = 25 ft^3/s, $Q_{30,10}$ = 13 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329500 Little River near Quincy using 18 measurements made during 1974-77.
ACCURACY.--$SE_{7,2}$ = 23 percent, $SE_{7,10}$ = 26 percent; $SE_{30,2}$ = 22 percent, $SE_{30,10}$ = 25 percent.
REMARKS.--The name, Attapulgus Creek, changes to Little River at the town of Jamieson.

304057084330800 Willacoochee Creek near Dogtown, Fla.

LOCATION.--Lat 30°40'57", long 84°33'08", in SE$\frac{1}{4}$ sec.5, T.3N., R.3W., at culvert on county road, 1.0 mile south of Florida-Georgia State line, and 3 miles west of Dogtown.
COUNTY.--Gadsden.
HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--36.5 mi^2.
TRIBUTARY TO.--Little River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 18 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 21ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02329700 Rocky Comfort Creek near Quincy using 3 measurements made during 1976-80.

Table 15. Low-flow characteristics at continuous-record stations, and partial-record stations, and miscellaneous sites in subregion 12 (Ochlockonee River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02329490 Willacoochee Creek near Quincy, Fla.

LOCATION.--Lat 30°38'13", long 84°30'02", in NE$\frac{1}{4}$ sec.26, T.3N., R.3W., at bridge on State Highway 161, 5.6 miles northeast of Quincy.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--64.9 mi^2. TRIBUTARY TO.--Little River.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 18 ft^3/s, $Q_{7,10}$ = 8.5 ft^3/s; $Q_{30,2}$ = 22 ft^3/s, $Q_{30,10}$ = 12 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329500 Little River near Quincy using 62 measurements made during 1974-84.
ACCURACY.--$SE_{7,2}$ = 32 percent, $SE_{7,10}$ = 38 percent; $SE_{30,2}$ = 31 percent, $SE_{30,10}$ = 35 percent.

02329500 Little River near Quincy, Fla.

LOCATION.--Lat 30°35'14", long 84°29'48", in NW$\frac{1}{4}$ sec.12, T.2N., R.3W., at bridge on State Highway 12, 4.5 miles east of Quincy, and 12 miles upstream from mouth.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--237 mi^2. TRIBUTARY TO.--Lake Talquin.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1950 to March 1978 and April 1981 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	37	38	41	45	56	77	88	100	140
5	18	20	22	24	33	48	53	72	84
10	12	14	15	18	25	36	41	57	64
20	8.2	9.6	11	13	18	27	33	44	51
50	5.4	6.4	7.2	9.8	13	19	25	30	39

ACCURACY.--$SE_{7,2}$ = 12 percent, $SE_{7,10}$ = 11percent; $SE_{30,2}$ = 11percent, $SE_{30,10}$ = 14 percent.
REMARKS.--Lake Talquin is the continuation of the Ochlockonee River.

02329516 Quincy Creek near Quincy, Fla.

LOCATION.--Lat 30°35'53", long 84°35'35", in SW$\frac{1}{4}$ sec.1, T.2N., R.4W., 0.3 mile below State Highway 268, 0.4 mile above unnamed ributary, and 1.2 miles northwest of Quincy.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--6.16 mi. TRIBUTARY TO.--Little River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 2.2 ft^3/s, $Q_{7,10}$ = 0.85 ft^3/s; $Q_{30,2}$ = 3.1 ft^3/s, $Q_{30,10}$ = 1.7 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329534 Quincy Creek at S267 at Quincy using 12 measurements made during 1978-81.

Table 15. Low-flow characteristics at continuous-record stations, and partial-record stations, and miscellaneous sites in subregion 12 (Ochlockonee River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02329534 Quincy Creek at S267 at Quincy, Fla.

LOCATION.--Lat 30°36'00", long 84349'50", in NW$\frac{1}{4}$ sec.6, T.2N., R.3W., at culvert on State Highway 267, 0.9 mile north of Quincy, and 6.2 miles upstream from mouth.

COUNTY.--Gadsden.

HYDROLOGIC UNIT.--03120003.

DRAINAGE AREA.--16.8 mi^2.

TRIBUTARY TO.--Lake Talquin.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1975 to March 1977 and April 1978 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	6.7	7.0	7.7	8.9	11	13	15	16	18
5	4.2	4.6	5.1	6.2	7.8	10	11	12	14
10	3.2	3.6	4.0	5.1	6.4	8.7	10	11	12
20	2.5	2.9	3.3	4.2	5.3	7.7	9.1	9.6	11

ACCURACY.--$SE_{7,2}$ = 15 percent, $SE_{7,10}$ = 15percent; $SE_{30,2}$ = 13 percent, $SE_{30,10}$ = 12 percent.

REMARKS.--Flow data do not include withdrawals for public supply by the city water plant located about 400 feet upstream of the gage.

02329542 Quincy Creek at Quincy, Fla.

LOCATION.--Lat 30°35'32", long 84°33'49", in NW$\frac{1}{4}$ sec.8, T.2N., R.3W., at bridge on State Highway 12, 0.8 mile northeast of Quincy.

COUNTY.--Gadsden.

HYDROLOGIC UNIT.--03120003.

DRAINAGE AREA.--21.9 mi^2.

TRIBUTARY TO.--Little River.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 8.5 ft^3/s, $Q_{7,10}$ = 3.5 ft^3/s; $Q_{30,2}$ = 12 ft^3/s, $Q_{30,10}$ = 6.7 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02329534 Quincy Creek at S267 at Quincy using 38 measurements made during 1974-79.

ACCURACY.--$SE_{7,2}$ = 20 percent, $SE_{7,10}$ = 21 percent; $SE_{30,2}$ = 18 percent, $SE_{30,10}$ = 18 percent.

REMARKS.--Operated as a continuous-record gaging station during 1974-77 and 1978.

02329548 Tanyard Branch near Quincy, Fla.

LOCATION.--Lat 30°34'42", long 84°33'30", in SW$\frac{1}{4}$ sec.8, T.2N., R.3W., near culvert on U.S. Highway 90, 0.6 mile upstream from Quincy Creek, 1.2 miles southeast of Quincy.

COUNTY.--Gadsden.

HYDROLOGIC UNIT.--03120003.

DRAINAGE AREA.--4.91 mi^2.

TRIBUTARY TO.--Quincy Creek.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1.6 ft^3/s, $Q_{7,10}$ = .69 ft^3/s; $Q_{30,2}$ = $_{2.2}$ ft^3/s, $Q_{30,10}$ = $_{1}$.3 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02329534 Quincy Creek at S267 at Quincy using 35 measurements made during 1974-81.

ACCURACY.--$SE_{7,2}$ = 33 percent, $SE_{7,10}$ = 42 percent; $SE_{30,2}$ = 31 percent, $SE_{30,10}$ = 34 percent.

Table 15. Low-flow characteristics at continuous-record stations, and partial-record stations, and miscellaneous sites in subregion 12 (Ochlockonee River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02329553 Hubbert Branch near Quincy, Fla.

LOCATION.--Lat 30°35'39", long 84°32'48", in SW$\frac{1}{4}$ sec.4, T.2N., R.3W., near culvert on State Highway 12, 0.8 mile upstream from Quincy Creek, and 1.8 miles east of Quincy.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--4.68 mi^2. TRIBUTARY TO.--Quincy Creek.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1.2 ft^3/s, $Q_{7,10}$ = 0.42 ft^3/s; $Q_{30,2}$ = 1.8 ft^3/s, $Q_{30,10}$ = 0.90 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329534 Quincy Creek at S267 at Quincy using 31 measurements made during 1974-77.
ACCURACY.--$SE_{7,2}$ = 37 percent, $SE_{7,10}$ = 43 percent; $SE_{30,2}$ = 34 percent, $SE_{30,10}$ = 37 percent.

02329556 Winkley Branch near Quincy, Fla.

LOCATION.--Lat 30°36'03", long 84°32'02", in NE$\frac{1}{4}$ sec.4, T.2N., R.3W., at culvert on State Highway 161, 1.1 miles upstream from Quincy Creek and 2.7 miles east of Quincy.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--1.64 mi^2. TRIBUTARY TO.--Quincy Creek.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.57 ft^3/s, $Q_{7,10}$ = 0.15 ft^3/s; $Q_{30,2}$ = 0.87 ft^3/s, $Q_{30,10}$ = 0.30 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329700 Rocky Comfort Creek near Quincy using 16 measurements made during 1975-81.
ACCURACY.--$SE_{7,2}$ = 55 percent, $SE_{7,10}$ = 73 percent; $SE_{30,2}$ = 51 percent, $SE_{30,10}$ = 63 percent.

02329565 Little River near Littman, Fla.

LOCATION.--Lat 30°33'12", long 84°30'54", in SE$\frac{1}{4}$ sec.22, T.2N., R.4W., at bridge on U.S. Highway 90, 2.7 miles south of Littman.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--279 mi^2. TRIBUTARY TO.--Lake Talquin.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 50 ft^3/s, $Q_{7,10}$ = 18 ft^3/s; $Q_{30,2}$ = 68 ft^3/s, $Q_{30,10}$ = 30 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329500 Little River near Quincy using 14 measurements made during 1976-81.
ACCURACY.--$SE_{7,2}$ = 15 percent, $SE_{7,10}$ = 16 percent; $SE_{30,2}$ = 14 percent, $SE_{30,10}$ = 18 percent.

02329582 Hurricane Creek near Havana, Fla.

LOCATION.--Lat 30°34'57", long 84°28'44", in SW$\frac{1}{4}$ sec.7, T.2N., R.2W., at culvert on State Highway 270, 3.1 miles upstream from Little River and 4.8 miles southwest of Havana.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--8.31 mi^2. TRIBUTARY TO.--Little River.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.25 ft^3/s, $Q_{7,10}$ = 0.01 ft^3/s; $Q_{30,2}$ = 0.66 ft^3/s, $Q_{30,10}$ = 0.06 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329700 Rocky Comfort Creek near Quincy using 43 measurements made during 1974-81.
ACCURACY.--$SE_{7,2}$ = 181 percent, $SE_{7,10}$ = 321 percent; $SE_{30,2}$ = 158 percent, $SE_{30,10}$ = 225 percent.

Table 15. Low-flow characteristics at continuous-record stations, and partial-record stations, and miscellaneous sites in subregion 12 (Ochlockonee River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02329591 Hurricane Creek near Quincy, Fla.

LOCATION.--Lat 30°33'11", long 84°30'38", in SW$\frac{1}{4}$ sec.23, T.2N., R.3N., at culvert on U.S. Highway 90, 0.2 mile upstream from Little River and 4.6 miles southeast of Quincy.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--12.8 mi^2. TRIBUTARY TO.--Little River.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 0.81 ft^3/s, $Q_{7,10}$ = 0.08 ft^3/s; $Q_{30,2}$ = 1.7 ft^3/s, $Q_{30,10}$ = 0 .26 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329700 Rocky Comfort Creek near Quincy using 10 measurements made during 1980-81.
ACCURACY.--$SE_{7,2}$ = 102 percent, $SE_{7,10}$ = 14 8 percent; $SE_{30,2}$ = 92 percent, $SE_{30,10}$ = 117 percent.

02329600 Little River near Midway, Fla.

LOCATION.--Lat 30°30'44", long 84°31'25", in SW$\frac{1}{4}$ sec.3, T.1N., R.3W., at bridge on Highway 268, 3.2 miles above mouth, and 3.7 miles west of Midway.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--305 mi^2. TRIBUTARY TO.--Lake Talquin.
TYPE OF SITE.--Crest-stage partial-record station and continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 65 ft^3/s, $Q_{7,10}$ = 27 ft^3/s; $Q_{30,2}$ = 85 ft^3/s, $Q_{30,10}$ = 42 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329500 Little River near Quincy using 17 measurements made during 1985-89.
ACCURACY.--$SE_{7,2}$ = 25 percent, $SE_{7,10}$ = 28 percent; $SE_{30,2}$ = 24 percent, $SE_{30,10}$ = 27 percent.
REMARKS.--Operated as a continuous-record streamflow station since 1985.

02329625 Monroe Creek near Midway, Fla.

LOCATION.--Lat 30°30'33", long 84°29'54", in SE$\frac{1}{4}$ sec.2, T.1N., R.3W., at bridge on State Highway 268, 2.6 miles west of Midway.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--6.8 mi^2. TRIBUTARY TO.--Little River.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1.7 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 2.6 ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329700 Rocky Comfort Creek near Quincy using 10 measurements made during 1976-81.
ACCURACY.--$SE_{7,2}$ = 74 percent; $SE_{30,2}$ = 67 percent.

02329646 Richlander Creek near Quincy, Fla.

LOCATION.--Lat 30°31'18", long 84°33'15", in SE$\frac{1}{4}$ sec.32, T.2N., R.3W., at culvert on State Highway 65B, 4.7 miles south of Quincy.
COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--5.8 mi^2. TRIBUTARY TO.--Lake Talquin.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 2.0 ft^3/s, $Q_{7,10}$ = 0.79 ft^3/s; $Q_{30,2}$ = 2.6 ft^3/s, $Q_{30,10}$ = 1.2 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02329700 Rocky Comfort Creek near Quincy using 13 measurements made during 1975-81.
ACCURACY.--$SE_{7,2}$ = 45 percent, $SE_{7,10}$ = 60 percent; $SE_{30,2}$ = 41 percent, $SE_{30,10}$ = 50 percent.

Table 15. Low-flow characteristics at continuous-record stations, and partial-record stations, and miscellaneous sites in subregion 12 (Ochlockonee River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02329000 Rocky Comfort Creek near Quincy, Fla.

LOCATION.--Lat 30°32'44", long 84°38'09", in NW$\frac{1}{4}$ sec.28, T.2N., R.4W., at culvert on State Highway 274, 4.5 miles southwest of Quincy, and 9.2 miles upstream from mouth.

COUNTY.--Gadsden.

HYDROLOGIC UNIT.--03120003.

DRAINAGE AREA.--9.46 mi^2.

TRIBUTARY TO.--Bear Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1965 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	4.0	4.2	4.3	4.9	5.7	6.8	7.6	8.8	11
5	2.2	2.3	2.5	3.1	3.6	4.4	5.0	6.4	7.4
10	1.5	1.6	1.8	2.3	2.8	3.5	3.9	5.4	6.1
20	.89	1.1	1.3	1.7	2.2	2.9	3.3	4.8	5.2

ACCURACY.--$SE_{7,2}$ = 14 percent, $SE_{7,10}$ = 31percent; $SE_{30,2}$ = 12 percent, $SE_{30,10}$ = 12 percent.

REMARKS.--Operated as a small basin, rainfall-runoff station during 1964-69.

02329877 Ocklawaha Creek near Wetumpka, Fla.

LOCATION.--Lat 32°27'00", long 84°38'36", in SW$\frac{1}{4}$ sec.28, T.1N., R.4W., at bridge on State Highway 267, 2.5 miles south of Wetumpka.

COUNTY.--Gadsden.

HYDROLOGIC UNIT.--03120003.

DRAINAGE AREA.--28.8 mi^2.

TRIBUTARY TO.--Lake Talquin.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 28 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 32 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02330100 Telogia Creek near Bristol using 36 measurements made during 1975-86.

ACCURACY.--$SE_{7,2}$ = 20 percent; $SE_{30,2}$ = 19 percent.

Table 15. Low-flow characteristics at continuous-record stations, and partial-record stations, and miscellaneous sites in subregion 12 (Ochlockonee River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

2330000 Ochlockonee River near Bloxham, Fla.

LOCATION.--Lat 30°23'10", long 84°38'59", in NE$\frac{1}{4}$ sec. 20, T.1 S., R.4 W., on bank, near bridge on State Highway 20, 1,200 feet downstream from Jackson Bluff Dam, 1.5 miles southwest of Bloxham, and 65 miles upstream from mouth.
COUNTY.--Leon.
HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--1,700 mi², approximately.
TRIBUTARY TO.--Gulf of Mexico.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1927 to March 1987.
SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	.54	1.0	9.0	15	33	40	56	59	150
10	6.1	11	31	42	75	100	123	177	277

REMARKS.--Flow regulated since 1929 by Jackson Bluff Dam. Significant upward trend in annual low flows.

02330053 Telogia Creek at SR 65-D near Greensboro, Fla.

LOCATION.--Lat 30°32'37", long 84°44'18", in NE$\frac{1}{4}$ sec.28, T.2N., R.15W, at culvert on State Highway 65-D, 2.9 miles southeast of Greensboro.
COUNTY.--Gadsden.
HYDROLOGIC UNIT.--0312003.
DRAINAGE AREA.--30.4 mi^2.
TRIBUTARY TO.--Ochlockonee River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 7.2 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02329700 Rocky Comfort Creek near Quincy using 3 measurements made during 1979.

02330100 Telogia Creek near Bristol, Fla.

LOCATION.--Lat 30°25'35", long 84°55'40", in NW$\frac{1}{4}$ sec.3, T.1S., R.7W., at bridge on State Highway 20, 3.0 miles east of Bristol, and 33 miles upstream of mouth.
COUNTY.--Liberty.
HYDROLOGIC UNIT.--03120003.
DRAINAGE AREA.--126 mi^2.
TRIBUTARY TO.--Ochlockonee River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1951 to March 1971, April 1975 to March 1979, and April 1981 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	51	52	56	60	70	86	100	107	145
5	40	41	43	46	53	63	74	82	92
10	35	36	37	40	46	54	61	67	74
20	31	32	33	35	41	47	51	55	59
50	28	29	30	31	36	38	40	42	46

ACCURACY.--$SE_{7,2}$ = 6 percent, $SE_{7,10}$ = 8 percent; $SE_{30,2}$ = 7 percent, $SE_{30,10}$ = 10 percent.

Table 15. Low-flow characteristics at continuous-record stations, and partial-record stations, and miscellaneous sites in subregion 12 (Ochlockonee River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02330120 Telogia Creek at Hosford, Fla.

LOCATION.--Lat 30°22'25", long 84°48'22", in SW$\frac{1}{4}$ sec.23, T.1S., R.6W., at bridge on State Highway 65, 1.0 mile south of Hosford.

COUNTY.--Liberty. HYDROLOGIC UNIT.--03120003.

DRAINAGE AREA.--181 mi^2. TRIBUTARY TO.--Ochlockonee River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 73 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 92 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02330100 Telogia Creek near Bristol using 4 measurements made during 1975-79.

302320084472400 Big Creek near Hosford, Fla.

LOCATION.--Lat 30°23'20", long 84°47'24", in SW$\frac{1}{4}$ sec.13, T.1S., R.6W., on bridge on State Highway 20, 0.5 mile east of Hosford.

COUNTY.--Liberty. HYDROLOGIC UNIT.--03120003.

DRAINAGE AREA.--22.1 mi^2. TRIBUTARY TO.--Telogia Creek.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 9.0 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 11 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02330100 Telogia Creek near Bristol using 3 measurements made during 1975-79.

303553084342700 Quincy Creek at SR65 near Quincy, Fla.

LOCATION.--Lat 30°35'53", long 84°34'27", in SW$\frac{1}{4}$ sec.6, T.2N., R.3W., at culvert on State Road 65, 0.5 mile north of water plant near Quincy.

COUNTY.--Gadsden. HYDROLOGIC UNIT.--03120003.

DRAINAGE AREA.--Not determined. TRIBUTARY TO.--Little River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 6.8 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 11 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02329534 Quincy Creek at S267 at Quincy using 7 measurements made during 1980-81.

Table 16. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 13 (Apalachicola River)

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02358000 Apalachicola River at Chattahoochee, Fla.

LOCATION.--Lat 30°42'03", long 84°51'33", in NW$\frac{1}{4}$ sec.32, T.4 N., R.6 W., at bridge on U.S. Highway 90, 0.6 mile downstream from Jim Woodruff Dam, 0.6 mile upstream of Mosquito Creek, 1 mile west of Chattahoochee, and 106 miles upstream from mouth.

COUNTY.--Jackson.

HYDROLOGIC UNIT.--03130011.

DRAINAGE AREA.--17,200 mi^2, approximately.

TRIBUTARY TO.--Apalachicola Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1957 to March 1990.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	9,370	9,430	9,600	9,640	10,300	10,500	11,400	12,000	13,000
10	4,650	5,090	5,250	5,560	5,920	6,530	7,250	8,020	9,020

REMARKS.--Flow regulated by Lake Seminole Reservoir (02357500) 0.6 mile upstream since February, 1957; Walter F. George Reservior (02343240) since 1962; Bartlett's Ferry Reservior (02341000) since 1926; and Lake Sidney Lanier (02324400) since 1956. Significant upward trend in annual low flows.

02358500 North Mosquito Creek at Chattahoochee, Fla.

LOCATION.--Lat 30°42'08", long 84°49'35", in NW$\frac{1}{4}$ sec.34, T.4 N., R.6 W., at bridge on U.S. Highway 90, 0.5 mile east of Chattahoochee.

COUNTY.--Gadsden.

HYDROLOGIC UNIT.--03130011.

DRAINAGE AREA.--57.9 mi^2.

TRIBUTARY TO.--Apalachicola River.

TYPE OF SITE.--Continuous-record gaging station and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 9.5 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02330100 Telogia Creek near Bristol using 7 measurements made during 1966-86.

REMARKS.--Operated as a continuous-record streamflow station during 1936-42.

02358600 Flat Creek near Chattahoochee, Fla.

LOCATION.--Lat 30°37'43", long 84°50'06", in NE$\frac{1}{4}$ sec.28, T.3 N., R.6 W., at bridge on State Highway 269, 5.3 miles south of Chattahoochee, and 6.1 miles upstream from mouth.

COUNTY.--Gadsden.

HYDROLOGIC UNIT.--03130011.

DRAINAGE AREA.--24.9 mi^2.

TRIBUTARY TO.--Apalachicola River.

TYPE OF SITE.--Miscellaneous site, crest-stage partial-record station, and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 16 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02330100 Telogia Creek near Bristol using 32 measurements made during 1965-86.

Table 16. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 13 (Apalachicola River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02358700 Apalachicola River near Blountstown, Fla.

LOCATION.--Lat 30°25'30", long 85°01'53", in NE$\frac{1}{4}$ sec.3, T.1 S., R.8 W., on bank 500 feet upstream from Neal Lumber Company, 1.5 miles southeast of Blountstown, and 78 miles upstream from mouth.

COUNTY.--Calhoun.

HYDROLOGIC UNIT.--03130011.

DRAINAGE AREA.--17,600 mi^2, approximately.

TRIBUTARY TO.--Apalachicola Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1957 to March 1990.

SAMPLE PERCENTILES OF ANNUAL LOW FLOWS.--

Percentile of annual low flow	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
50	9,840	9,900	10,100	10,300	10,800	11,200	12,100	12,400	13,900
10	5,640	5,730	6,190	6,230	6,390	6,920	7,480	8,290	9,620

REMARKS.--Flow regulated by Lake Seminole Reservoir (02357500) 26 miles upstream since February 1957. Daily streamflow records were furnished by the U.S. Army Corps of Engineers, Mobile District.

02359170 Apalachicola River near Sumatra, Fla.

LOCATION.--Lat 29°56'57", long 85°00'56", in SW$\frac{1}{4}$ sec.14, T.6 S., R.8 W., at Brickyard Landing, 5.3 miles southwest of Sumatra, and 20.6 miles upstream from mouth.

COUNTY.--Franklin.

HYDROLOGIC UNIT.--03130011.

DRAINAGE AREA.--19,200 mi^2.

TRIBUTARY TO.--Apalachicola Bay.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 10,400 ft^3/s, $Q_{7,10}$ = 7,640 ft^3/s; $Q_{30,2}$ = 10,900 ft^3/s, $Q_{30,10}$ = 7,930 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02358700 Apalachicola River near Blountstown using 10 measurements made during 1981-88.

ACCURACY.--$SE_{7,2}$ = 6 percent, $SE_{7,10}$ = 6 percent; $SE_{30,2}$ = 6 percent, $SE_{30,10}$ = 6 percent.

REMARKS.--Operated as a continuous-record streamflow station since 1977.

02358789 Chipola River at Marianna, Fla.

LOCATION.--Lat 30°46'22", long 85°12'59", in SE$\frac{1}{4}$ sec.3 , T.4 N., R.10 W., at bridge on State Highway 40, 0.6 mile east of Marianna.

COUNTY.--Jackson.

HYDROLOGIC UNIT.--03130012.

DRAINAGE AREA.--464 mi^2.

TRIBUTARY TO.--Dead Lake.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 215 ft^3/s, $Q_{7,10}$ = 130 ft^3/s; $Q_{30,2}$ = 235 ft^3/s, $Q_{30,10}$ = 145 ft^3/s.

BASIS OF ESTIMATE.--Graphical analysis with 02359000 Chipola River near Altha using 7 measurements made during 1913-86.

Table 16. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 13 (Apalachicola River)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02358800 Chipola River at Oakdale, Fla.

LOCATION.--Lat 30°43'02", long 85°12'01", in E$\frac{1}{4}$ sec.26, T.4 N., R.10 W., at bridge on county road at Oakdale, 4.6 miles south of Marianna, and 71 miles above mouth.

COUNTY.--Jackson. HYDROLOGIC UNIT.--03130012.

DRAINAGE AREA.--519 mi^2. TRIBUTARY TO.--Dead Lake.

TYPE OF SITE.--Crest-stage partial-record station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 455 ft^3/s, $Q_{7,10}$ = 315 ft^3/s; $Q_{30,2}$ = 489 ft^3/s, $Q_{30,10}$ = 343 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02359000 Chipola River near Altha using 5 measurements made during 1965-69.

02359000 Chipola River near Altha, Fla.

LOCATION.--Lat 30°32'02", long 85°09'55", in NW$\frac{1}{4}$ sec.32, T.2 N., R.9 W., at bridge on State Highway 274, 3.5 miles southwest of Altha, and 54 miles upstream from mouth.

COUNTY.--Calhoun. HYDROLOGIC UNIT.--03130012.

DRAINAGE AREA.--781 mi^2. TRIBUTARY TO.--Dead Lake.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1922 to March 1927, April 1930 to March 1931, and April 1943 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	590	611	625	641	674	727	775	821	930
5	460	475	486	500	528	561	589	618	687
10	403	414	425	440	465	492	514	537	593
20	360	370	380	394	420	443	461	480	528
50	317	324	335	348	374	394	410	425	466

ACCURACY.--$SE_{7,2}$ = 5 percent, $SE_{7,10}$ = 6 percent; $SE_{30,2}$ = 6 percent, $SE_{30,10}$ = 6 percent.

02359035 Fourmile Creek at Clarkesville, Fla.

LOCATION.--Lat 30°26'41", long 85°10'59", in NW$\frac{1}{4}$ sec.31, T.1 N., R.9 W.,near bank at bridge on State Highway 73, 0.6 mile south of Clarksville, and 1.5 miles above mouth.

COUNTY.--Calhoun. HYDROLOGIC UNIT.--03130012.

DRAINAGE AREA.--36.0 mi^2. TRIBUTARY TO.--Chipola River.

TYPE OF SITE.--Crest-stage partial-record station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 30 ft^3/s, $Q_{7,10}$ = 20 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02330100 Telogia Creek near Bristol using 16 measurments made during 1981-86.

ACCURACY.--$SE_{7,2}$ = 24 percent, $SE_{7,10}$ = 31 percent.

Table 16. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 13--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02359059 Juniper Creek near Frink, Fla.

LOCATION.--Lat 30°21'30", long 85°12'45", in NW$\frac{1}{4}$ sec.35, T.1 S., R.10 W., at bridge on State Highway 73, 0.7 mile south of Frink.

COUNTY.--Calhoun.

HYDROLOGIC UNIT.--03130012.

DRAINAGE AREA.--50.9 mi2.

TRIBUTARY TO.--Chipola River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 50 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02330100 Telogia Creek near Bristol using 4 measurments made during 1965-86.

02359098 Chipola Cutoff near Wewahitchka, Fla.

LOCATION.--Lat 30°07'45", long 85°08'45", in SW$\frac{1}{4}$ sec.16, T.4 S., R.9 W., at diversion from Apalachicola River, 3 miles east of Wewahitchka.

COUNTY.--Gulf.

HYDROLOGIC UNIT.--03130012.

DRAINAGE AREA.--17,800 mi^2.

TRIBUTARY TO.--Apalachicola River.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 3,700 ft^3/s, $Q_{7,10}$ = 2,630 ft^3/s; $Q_{30,2}$ = 3,820 ft^3/s, $Q_{30,10}$ = 2,740 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02358700 Apalachicola River near Blountstown using 5 measurments made in 1951 and 1955.

02330300 New River near Wilma, Fla.

LOCATION.--Lat 30°07'40", long 84°53'45", in SW$\frac{1}{4}$ sec.13, T.4 S., R.7 W., Apalachicola National Forest, at Carr Bridge on U.S. Forest Road 13, 4.5 miles southeast of Wilma, and 40 miles upstream of mouth.

COUNTY.--Liberty.

HYDROLOGIC UNIT.--03130013.

DRAINAGE AREA.--81.7 mi^2.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Continuous-record gaging station and periodic measurement station.

PERIOD OF RECORD ANALYZED.--April 1965 to March 1981.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	0	0.01	0.06	0.26	1.8	12	31	48	98
5	0	0	0	0	.28	2.6	8.0	19	62
10	0	0	0	0	.07	1.1	2.4	11	50
20	0	0	0	0	0	0	.07	5.7	44

Table 16. Low-flow characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 13--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02330400 New River near Sumatra, Fla.

LOCATION.--Lat 30°02'19", long 84°50'38", in SE$\frac{1}{4}$ sec.16, T.5 S., R.6 W., at bridge on U.S. Forest Road 120, 8.2 miles east of Sumatra, and 29 miles upstream from mouth.

COUNTY.--Liberty.

HYDROLOGIC UNIT.--03130013.

DRAINAGE AREA.--157 mi^2.

TRIBUTARY TO.--Gulf of Mexico.

TYPE OF SITE.--Crest-stage partial-record station and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = .01 ft^3/s, $Q_{7,10}$ = 0 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02330300 New River near Wilma using 10 measurements made during 1966-78.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02359350 Econfina Creek near Compass Lake, Fla.

LOCATION.--Lat 30°33'20", long 85°26'05, in on line between sections 21 and 22, T.2N., R.12W., at bridge on county road, and 3.5 miles southwest of Compass Lake.

COUNTY.--Bay

HYDROLOGIC UNIT.--03140101.

DRAINAGE AREA.--40.5 mi^2

TRIBUTARY TO.--Deer Point Lake.

TYPE OF SITE.--Continuous-record gaging station and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 19 ft^3/s, $Q_{7,10}$ = 9.6 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02359450 Econfina Creek near Fountain using 9 measurements made during 1965-69.

ACCURACY.--$SE_{7,2}$ = 17 percent, $SE_{7,10}$ = 20 percent.

REMARKS.--Operated as a continuous-record streamflow gaging station during 1962-65.

02359450 Econfina Creek near Fountain, Fla.

LOCATION.--Lat 30°28'55", long 85°31'30", in $SE\frac{1}{4}$ sec. 15, T.1N., R.13W., near bank at Walsingham Bridge on county road, 6.0 miles west of Fountain and 23 miles upstream of mouth.

COUNTY.--Washington

HYDROLOGIC UNIT.--03140101.

DRAINAGE AREA.--70.2 mi^2.

TRIBUTARY TO.--Deer Point Lake.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1965 to March 1978.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	94	95	97	102	108	119	126	132	149
5	75	76	78	81	88	97	102	105	118
10	67	67	68	72	78	86	90	93	101
20	60	60	61	65	70	78	81	83	88

ACCURACY.--$SE_{7,2}$ = 8 percent, $SE_{7,10}$ = 8 percent; $SE_{30,2}$ = 7 percent, $SE_{30,10}$ = 8 percent.

02359466 Econfina Creek above Blue Spring, near Greenhead, Fla.

LOCATION.--Lat 30°27'06", long 85°31'55", on line between sections 27 and 34, T.1N., R.13W., just above Blue Springs, and 9 miles southeast of Greenhead.

COUNTY.--Washington

HYDROLOGIC UNIT.--03140101.

DRAINAGE AREA.--not determined

TRIBUTARY TO.--Deer Point Lake.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 112 ft^3/s, $Q_{7,10}$ = 88 ft^3/s; $Q_{30,2}$ = 120 ft^3/s, $Q_{30,10}$ = 92 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02359500 Econfina Creek near Bennett using 5 measurements made during 1962-63.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02359500 Econfina Creek near Bennett, Fla.

LOCATION.--Lat 30°23'04", long 85°33'24", in SE$\frac{1}{4}$ sec. 20, T.1S., R.13W., at bridge on State Highway 388, 1.6 miles southwest of Bennett and 11 miles upstream from mouth.

COUNTY.--Bay.

HYDROLOGIC UNIT.--03140101.

DRAINAGE AREA.--122 mi^2.

TRIBUTARY TO.--North Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1936 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	405	409	414	420	431	445	457	468	492
5	364	367	370	374	383	394	404	414	435
10	344	346	348	352	361	370	378	389	406
20	328	330	332	335	343	351	359	369	383
50	311	312	314	316	324	331	338	349	358

ACCURACY.--$SE_{7,2}$ = <1 percent, $SE_{7,10}$ = 1 percent; $SE_{30,2}$ = 2 percent, $SE_{30,10}$ = <1 percent.

02359550 Bear Creek near Youngstown, Fla.

LOCATION.--Lat 30°19'10", long 85°27'20", in NE$\frac{1}{4}$ sec. 17, T.2S., R.12W., at bridge on U.S. Highway 231, 0.7 mile upstream from Little Bear Creek, and 3.2 miles south of Youngstown.

COUNTY.--Bay.

HYDROLOGIC UNIT.--03140101.

DRAINAGE AREA.--67.2 mi^2.

TRIBUTARY TO.--Deer Point Lake.

TYPE OF SITE.--Continuous-record gaging station, periodic measurement station, and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 48 ft^3/s, $Q_{7,10}$ = 35 ft^3/s; $Q_{30,2}$ = 52 ft^3/s, $Q_{30,10}$ = 38 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02359500 Econfina Creek near Bennett using 19 measurements made during 1962-76.

ACCURACY.--$SE_{7,2}$ = 21 percent, $SE_{7,10}$ = 25 percent; $SE_{30,2}$ = 21 percent, $SE_{30,10}$ = 24 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1962-65. Deer Point Lake is the continuation of Econfina Creek.

02366900 Magnolia Creek near Freeport, Fla.

LOCATION.--Lat 30°31'48", long 86°05'15", in NW$\frac{1}{4}$ sec. 6, T.1S ., R.18W., at bridge on country road, 0.5 mile upstream from Lafayette Creek, and 3.5 miles northeast of Freeport.

COUNTY.--Walton.

HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--11.2 mi^2.

TRIBUTARY TO.--Lafayette Creek.

TYPE OF SITE.--Continuous-record gaging station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 16 ft^3/s, $Q_{7,10}$ = 12 ft^3/s; $Q_{30,2}$= 18 ft^3/s, $Q_{30,10}$ = 13 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 0236700 Alaqua Creek near De Funiak Springs using 32 measurements made during 1972-84.

ACCURACY.--$SE_{7,2}$ = 19 percent, $SE_{7,10}$ = 22 percent; $SE_{30,2}$ = 17 percent, $SE_{30,10}$ = 21 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1969-71 and 1975-78, and as a continuous-record stage station during 1972-74 and 1979-84.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02366911 Lafayette Creek near Freeport, Fla.

LOCATION.--Lat 30°29'35", long 86°07'33, in SE$\frac{1}{4}$ sec. 1, T.1S., R.19W, at bridge on State Highway 20 at Freeport.

COUNTY.--Walton. HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--35.5 mi^2. TRIBUTARY TO.--Fourmile Creek.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 56 ft^3/s, $Q_{7,10}$ = 41 ft^3/s; $Q_{30,2}$ = 63 ft^3/s, $Q_{30,10}$ = 45 ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 0236700 Alaqua Creek near De Funiak Springs using 10 measurements made during 1969-78.

02367000 Alaqua Creek near De Funiak Springs, Fla.

LOCATION.--Lat 30°37'00", long 86°09'50", in NE$\frac{1}{4}$ sec. 5, T.1N., R.19W., at Pine Allen Bridge on U.S. Forest Service Road 200, 8.0 miles southwest of De Funiak Springs, and 11 miles upstream from mouth.

COUNTY.--Walton. HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--65.6 mi^2. TRIBUTARY TO.--Alaqua Bayou.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1952 to March 1978.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	58	59	60	64	71	81	91	102	127
5	43	44	45	47	52	58	66	73	87
10	37	38	39	40	44	49	56	62	72
20	33	33	34	35	38	42	49	54	61

ACCURACY.--$SE_{7,2}$ = 7 percent, $SE_{7,10}$ = 9 percent; $SE_{30,2}$ = 8 percent, $SE_{30,10}$ = 10 percent.

02367006 Alaqua Creek near Portland, Fla.

LOCATION.--Lat 30°33'22", long 86°10'45", in NE$\frac{1}{4}$ sec. 30, T.1N., R.19W, at bridge on State Highway S-282, 3.2 miles northeast of Portland and 5.8 miles upstream from mouth.

COUNTY.--Walton. HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--83.7 mi^2. TRIBUTARY TO.--Alaqua Bayou.

TYPE OF SITE.--Periodic measurement station and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 64 ft^3/s, $Q_{7,10}$ = 51 ft^3/s; $Q_{30,2}$ = 74 ft^3/s, $Q_{30,10}$ = 60 ft^3/s.

BASIS OF ESTIMATE.--Probability distribution of annual 7- and 30-day low flows for 1981-89.

ACCURACY.--$SE_{7,2}$ = 10 percent, $SE_{7,10}$ = 18 percent; $SE_{30,2}$ = 12 percent, $SE_{30,10}$ = 21 percent.

REMARKS.--Operated as continuous-record streamflow gaging station since 1980.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02367240 Rocky Creek near Portland, Fla.

LOCATION.--Lat 30°34'23", long 86°22'01", in NE$\frac{1}{4}$ sec. 20, T.1N., R.21W, at bridge on Jackson Trail Road, 7.8 miles northeast of Niceville, and 11.2 miles northwest of Portland.

COUNTY.--Walton. HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--42.4 mi^2. TRIBUTARY TO.--Rocky Bayou.

TYPE OF SITE.--Miscellaneous site and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 71 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- t^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02367310 Juniper Creek at State Highway 85, near Niceville using 18 measurements made during 1966-82.

ACCURACY.--$SE_{7,2}$ = 20 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1980-82.

02367242 Little Rocky Creek near Niceville, Fla.

LOCATION.--Lat 30°36'34", long 86°25'31", in SW$\frac{1}{4}$ sec. 2, T.1N., R.22W, at bridge on State Highway 285, and 7.0 miles northeast of Niceville.

COUNTY.--Okaloosa. HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--3.85 mi^2. TRIBUTARY TO.--Rocky Creek.

TYPE OF SITE.--Continuous-record gaging station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 8.5 ft^3/s, $Q_{7,10}$ = 6.2 ft^3/s; $Q_{30,2}$ = 8.9 ft^3/s, $Q_{30,10}$ = 6.6 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02367310 Juniper Creek at State Highway 85, near Niceville using 13 measurements made during 1969-77.

ACCURACY.--$SE_{7,2}$ = 11 percent, $SE_{7,10}$ = 13 percent; $SE_{30,2}$ = 11 percent, $SE_{30,10}$ = 13 percent.

REMARKS.--Operated as a small basin, rainfall-runoff station during 1972-75.

02367250 Rocky Creek near Niceville, Fla.

LOCATION.--Lat 30°32'07", long 86°22'55", in SE$\frac{1}{4}$ sec. 31, T.1N., R.21W, at bridge on woods road, 3 miles upstream from Rocky Bayou and 6 miles east of Niceville.

COUNTY.--Walton. HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--67.0 mi^2. TRIBUTARY TO.--Rocky Bayou.

TYPE OF SITE.--Crest-stage partial-record station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 123 ft^3/s, $Q_{7,10}$ = 95 ft^3/s; $Q_{30,2}$ = 129 ft^3/s, $Q_{30,10}$ = 101 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02367310 Juniper Creek at State Highway 85, near Niceville using 31 measurements made during 1966-69.

ACCURACY.--$SE_{7,2}$ = 9 percent, $SE_{7,10}$ = 11 percent; $SE_{30,2}$ = 9 percent, $SE_{30,10}$ = 10 percent.

02367300 Swift Creek near Niceville, Fla.

LOCATION.--Lat 30°31'40", long 86°28'00", in NE$\frac{1}{4}$ sec. 5, T.1S., R.22W., at bridge on State Highway 285, 1.1 miles northeast of Niceville.

COUNTY.--Okaloosa. HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--5.96 mi^2. TRIBUTARY TO.--Rocky Bayou.

TYPE OF SITE.--Crest-stage partial-record station and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 13 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 13 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02367310 Juniper Creek at State Highway 85, near Niceville using 4 measurements made during 1966-77.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02367305 Turkey Creek near Niceville, Fla.

LOCATION.--Lat 30°33'43", long 86°32'10", in NW$\frac{1}{4}$ sec. 27, T.1N., R.23W., at bridge on woods road, 4.5 miles northwest of Niceville.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--22.7 mi^2.

TRIBUTARY TO.--Boggy Bayou.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 67 ft^3/s, $Q_{7,10}$ = 58 ft^3/s; $Q_{30,2}$ = 69 ft^3/s, $Q_{30,10}$ = 60 ft^3/s.

BASIS OF ESTIMATE.--Analytical regression with 02367310 Juniper Creek at State Highway 85, near Niceville using 20 measurements made during 1966-68.

ACCURACY.--$SE_{7,2}$ = 9 percent, $SE_{7,10}$ = 11 percent; $SE_{30,2}$ = 9 percent, $SE_{30,10}$ = 11 percent.

REMARKS.--Station operated as a continuous-record streamflow station during 1966-68.

02367307 Turkey Creek at SR 123, near Niceville, Fla.

LOCATION.--Lat 30°33'15", long 86°31'55", in SE$\frac{1}{4}$ sec. 27, T.1N., R.23W., at bridge on State Highway 123, 0.8 mile upstream from Juniper Creek and 3.4 miles northeast of Niceville.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--30.1 mi^2.

TRIBUTARY TO.--Boggy Bayou.

TYPE OF SITE.--Miscellaneous site and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 83 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 85 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02367310 Juniper Creek at State Highway 85, near Niceville using 9 measurements made during 1977-81.

REMARKS.--Station operated as a continuous-record streamflow station during 1980-81.

02367308 Tenmile Creek near Valparaiso, Fla.

LOCATION.--Lat 30°34'12", long 86°31'00", in SE$\frac{1}{4}$ sec. 23, T.1N., R.23W., at bridge on graded road, and 4.2 miles northwest of Valparaiso.

COUNTY.--Oklaloosa.

HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--16.8 mi^2.

TRIBUTARY TO.--Juniper Creek.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 37 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 40 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02368300 Baggett Creek near Milligan using 4 measurements made during 1966-67 and 1977.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02367310 Juniper Creek at State Highway 85, near Niceville, Fla.

LOCATION.--Lat 32°33'26", long 86°31'11", in NW$\frac{1}{4}$ sec. 26, T.1N., R.23W., on left bank near bridge on State Highway 85, 0.8 mile upstream from Turkey Creek, and 3.0 miles northwest of Niceville.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--27.6 mi^2.

TRIBUTARY TO.--Turkey Creek.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1966 to March 1975 and April 1978 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	57	57	59	60	62	65	68	71	76
5	46	47	48	50	51	55	58	59	63
10	42	43	44	45	47	50	53	54	58
20	39	39	41	42	43	47	50	51	53

ACCURACY.--$SE_{7,2}$ = 7 percent, $SE_{7,10}$ = 9 percent; $SE_{30,2}$ = 7 percent, $SE_{30,10}$ = 9 percent.

02367355 Turkey Creek at Government Railroad near Niceville, Fla.

LOCATION.--Lat 30°32'35", long 86°31'15", in NW$\frac{1}{4}$ sec. 35, T.1N., R.23W, on left bank 50 feet upstream from railroad tracks, 2.0 miles northwest of Niceville.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--60.8 mi^2.

TRIBUTARY TO.--Boggy Bayou.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 188 ft^3/s, $Q_{7,10}$ = 157 ft^3/s; $Q_{30,2}$ = 193 ft^3/s, $Q_{30,10}$ = 163 ft^3/s.

BASIS OF ESTIMATE.--Analytical regression with Juniper Creek at State Highway 85, near Niceville using 21 measurements made between 1977-80.

ACCURACY.--$SE_{7,2}$ = 7 percent, $SE_{7,10}$ = 9 percent; $SE_{30,2}$ = 7 percent, $SE_{30,10}$ = 9 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1977-81.

303015086304000 Toms Creek near Niceville, Fla.

LOCATION.--Lat 30°30'15", long 86°30'40", in NW$\frac{1}{4}$ sec. 13, T.1S., R.23W., at bank near bridge on Eglin Air Force Base, 0.4 mile upstream from mouth, and 1.9 miles southwest of Niceville.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140102.

DRAINAGE AREA.--Not determined.

TRIBUTARY TO.--Boggy Bayou.

TYPE OF SITE.--Periodic measurement station and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 27 ft^3/s, $Q_{7,10}$ = 22 ft^3/s; $Q_{30,2}$ = 28 ft^3/s, $Q_{30,10}$ = 23 ft^3/s.

BASIS OF ESTIMATE.--Analytical regression with 02367310 Juniper Creek at State Highway 85, near Niceville using 11 measurements made during 1973-77.

ACCURACY.--$SE_{7,2}$ = 14 percent, $SE_{7,10}$ = 18 percent; $SE_{30,2}$ = 13 percent, $SE_{30,10}$ = 17 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02368000 Yellow River at Milligan, Fla.

LOCATION.--Lat 30°45'10", long 86°37'45", in SE$\frac{1}{4}$ sec. 15, T.3N., R.24W., at bridge on U.S. Highway 90, 0.5 mile east of Milligan, 6.7 miles upstream from Shoal River, and 40 miles upstream from mouth.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140103.

DRAINAGE AREA.--624 mi^2.

TRIBUTARY TO.--Blackwater Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1939 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	277	281	289	304	341	400	463	511	624
5	208	211	216	226	251	287	327	357	425
10	179	183	187	195	215	244	274	298	349
20	159	162	166	172	189	214	237	259	296
50	139	142	146	151	165	185	202	221	248

ACCURACY.--$SE_{7,2}$ = 6 percent, $SE_{7,10}$ = 8 percent; $SE_{30,2}$ = 6 percent, $SE_{30,10}$ = 8 percent.

02368300 Baggett Creek near Milligan, Fla.

LOCATION.--Lat 30°43'40", long 86°39'35", in SW$\frac{1}{4}$ sec. 28, T.3N., R.24W., at culvert on U.S. Highway 90, 1.2 miles upstream from mouth, and 2.0 miles southwest of Milligan.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140103.

DRAINAGE AREA.--7.77 mi^2

TRIBUTARY TO.--Yellow River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1965 to March 1982.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	12	12	12	13	14	15	16	16	17
5	9.4	9.5	9.7	10	11	12	12	13	13
10	8.2	8.2	8.5	8.8	9.4	10	11	11	11
20	7.2	7.3	7.5	7.7	8.2	8.8	9.3	9.5	10

ACCURACY.--$SE_{7,2}$ = 7 percent, $SE_{7,10}$ = 7 percent; $SE_{30,2}$ = 7 percent, $SE_{30,10}$ = 7 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02368500 Shoal River near Mossy Head, Fla.

LOCATION.--Lat 30°47'45", long 86°18'25", in SW$\frac{1}{4}$ sec. 36, T.4N., R.21W., at bridge on State Highway 285, 3.9 miles north of Mossy Head, and 34 miles upstream from mouth.

COUNTY.--Walton.

HYDROLOGIC UNIT.--03140103.

DRAINAGE AREA.--123 mi^2.

TRIBUTARY TO.--Yellow River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1951 to March 1978.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	71	72	74	78	86	98	115	130	156
5	54	55	56	59	64	72	83	92	108
10	47	48	48	51	56	62	70	78	90
20	41	42	43	45	50	56	62	68	78

ACCURACY.--$SE_{7,2}$ = 7 percent, $SE_{7,10}$ = 9 percent; $SE_{30,2}$ = 8 percent, $SE_{30,10}$ = 11 percent.

02368800 Pond Creek near Dorcas, Fla.

LOCATION.--Lat 30°50'02", long 86°25'43", in NE$\frac{1}{4}$ sec. 22, T.4N., R.22W., at bridge on county road, 2.6 miles north of Dorcas.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140103.

DRAINAGE AREA.--94.8 mi^2.

TRIBUTARY TO.--Shoal River.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 28 ft^3/s, $Q_{7,10}$ = 15 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Analytical regression with 02368000 Yellow River at Milligan using 13 measurements made during 1966-68.

ACCURACY.--$SE_{7,2}$ = 18 percent, $SE_{7,10}$ = 22 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1966-68.

02368810 Pond Creek at Dorcas, Fla.

LOCATION.--Lat 30°48'36", long 86°24'29", in SE$\frac{1}{4}$ sec. 26, T.4N., R.22W., at bridge on State Highway C-393, 0.9 mile northeast of Dorcas and 2.5 miles upstream from mouth.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140103.

DRAINAGE AREA.--96.5 mi^2.

TRIBUTARY TO.--Shoal River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 36 ft^3/s, $Q_{7,10}$ = 24 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Analytical regression with 02368000 Yellow River at Milligan using 20 measurements made during 1979-83.

ACCURACY.--$SE_{7,2}$ = 34 percent; $SE_{30,10}$ = 38 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02368850 Shoal River at Dorcas, Fla.

LOCATION.--Lat 30°47'27", long 86°25'14", in NW$\frac{1}{4}$ sec. 2, T.3N., R.22W., at bridge on State Highway 393, 0.6 mile south of Dorcas.
COUNTY.--Okaloosa. HYDROLOGIC UNIT.--03140103.
DRAINAGE AREA.--319 mi^2. TRIBUTARY TO.--Yellow River.
TYPE OF SITE.--Miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 190 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 210 ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Graphical correlation with 02368500 Shoal River near Mossy Head using 3 measurements made during 1966-68.

02368990 Titi Creek near Crestview, Fla.

LOCATION.--Lat 30°42'05", long 86°29'28", in NW$\frac{1}{4}$ sec. 6, T.2N., R.22W., at bridge on woods road, 5.5 miles southeast of Crestview.
COUNTY.--Okaloosa. HYDROLOGIC UNIT.--03140103.
DRAINAGE AREA.--62.9 mi^2. TRIBUTARY TO.--Shoal River.
TYPE OF SITE.--Continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 85 ft^3/s, $Q_{7,10}$ = 63 ft^3/s; $Q_{30,2}$ = 97 ft^3/s, $Q_{30,10}$ = 69 ft^3/s.
BASIS OF ESTIMATE.--Analytical regression with 02367000 Alaqua Creek near De Funiak Springs using 19 measurements made during 1966-68.
ACCURACY.--$SE_{7,2}$ = 16 percent, $SE_{7,10}$ = 19 percent; $SE_{30,2}$ = 16 percent, $SE_{30,10}$ = 18 percent.
REMARKS.--Operated as a continuous-record streamflow station during 1966-68.

02369000 Shoal River near Crestview, Fla.

LOCATION.--Lat 30°41'50", long 86°34'15", in SW$\frac{1}{4}$ sec. 5, T.2N., R.23W., at bridge on State Highway 85, 3.5 miles downstream from Titi Creek, 4.2 miles south of Crestview, and 7 miles upstream from mouth.
COUNTY.--Okaloosa. HYDROLOGIC UNIT.--03140103.
DRAINAGE AREA.--474 mi^2 TRIBUTARY TO.--Yellow River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1939 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	391	398	413	432	480	539	613	664	762
5	314	318	328	342	372	410	459	494	561
10	281	285	292	304	328	359	394	424	479
20	257	261	266	276	295	323	347	374	419
50	234	236	240	248	264	288	300	326	361

ACCURACY.--$SE_{7,2}$ = 4 percent, $SE_{7,10}$ = 6 percent; $SE_{30,2}$ = 5 percent, $SE_{30,10}$ = 6 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02369500 Yellow River near Holt, Fla.

LOCATION.--Lat 30°40'25", long 86°44'50", in SE$\frac{1}{4}$ sec. 16, T.2N., R.25W., at Log Lake Bridge on State Road 189, 2.8 miles south of Holt.
COUNTY.--Okaloosa. HYDROLOGIC UNIT.--03140103.
DRAINAGE AREA.--1,210 mi^2. TRIBUTARY TO.--Blackwater Bay.
TYPE OF SITE.--Continuous-record gaging station and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 985 ft^3/s, $Q_{7,10}$ = 683 ft^3/s; $Q_{30,2}$ = 1,160 ft^3/s, $Q_{30,10}$ = 772 ft^3/s.
BASIS OF ESTIMATE.--Analytical regression with 02369000 Shoal River near Crestview using 24 measurements made during 1938-41 and1966, 1967.
ACCURACY.--$SE_{7,2}$ = 27 percent, $SE_{7,10}$ = 31 percent; $SE_{30,2}$ = 26 percent, $SE_{30,10}$ = 30 percent.
REMARKS.--Operated as a continuous-record streamflow station during 1933-41.

02370000 Blackwater River near Baker, Fla.

LOCATION.--Lat 30°50'00", long 86°44'05", in SW$\frac{1}{4}$ sec. 22, T.4N., R.25W., at bank near bridge on State Highway 4, 3.8 miles northwest of Baker, and 35 miles upstream from mouth.
COUNTY.--Okaloosa. HYDROLOGIC UNIT.--03140104.
DRAINAGE AREA.--205 mi^2. TRIBUTARY TO.--Blackwater Bay.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1950 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	86	87	89	92	99	116	137	153	184
5	70	71	73	75	80	89	100	109	126
10	64	65	66	68	73	80	87	92	104
20	60	61	62	63	68	74	79	81	90
50	56	57	58	59	63	69	71	71	76

ACCURACY.--$SE_{7,2}$ = 5 percent, $SE_{7,10}$ = 6 percent; $SE_{30,2}$ = 6 percent, $SE_{30,10}$ = 11 percent.

02370015 Muddy Branch near Beaver Creek, Fla.

LOCATION.--Lat 30°51'01", long 86°46'54", in NW$\frac{1}{4}$ sec. 18, T.4N., R.25W., above culvert on State Highway 4, 0.5 mile above mouth, and 2.2 miles south of Beaver Creek.
COUNTY.--Okaloosa. HYDROLOGIC UNIT.--03140104.
DRAINAGE AREA.--1.45 mi^2. TRIBUTARY TO.--Blackwater River.
TYPE OF SITE.--Continuous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 2.1 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02368300 Baggett Creek near Milligan using 11 measurements made during 1969-76.
ACCURACY.--$SE_{7,2}$ = 128 percent.
REMARKS.--Operated as a small basin, rainfall-runoff station during 1969-75.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02370100 Blackwater River near Holt, Fla.

LOCATION.--Lat 30°43'26", long 86°47'34", in NE$\frac{1}{4}$ sec. 36, T.3N., R.26W., at Bryant Bridge on county road, 2.4 miles northwest of Holt.
COUNTY.--Santa Rosa. HYDROLOGIC UNIT.--03140104.
DRAINAGE AREA.--276 mi^2. TRIBUTARY TO.--Blackwater Bay.
TYPE OF SITE.--Crest-stage partial-record station and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 186 ft^3/s, $Q_{7,10}$ = 152 ft^3/s; $Q_{30,2}$ = 200 ft^3/s, $Q_{30,10}$ = 162 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02370000 Blackwater River near Baker using 12 measurements made during 1958-77.
ACCURACY.--$SE_{7,2}$ = 13 percent, $SE_{7,10}$ = 16 percent; $SE_{30,2}$ = 13 percent, $SE_{30,10}$ = 16 percent.

02370200 Big Juniper Creek near Munson, Fla.

LOCATION.--Lat 30°51'50", long 86°54'20", in SW$\frac{1}{4}$ sec. 12, T.4N., R.27W., on bank near State Highway 4, 2 miles west of Munson, and 3.7 miles upstream from Sweetwater Creek.
COUNTY.--Santa Rosa. HYDROLOGIC UNIT.--03140104.
DRAINAGE AREA.--36.0 mi^2. TRIBUTARY TO.--Blackwater River.
TYPE OF SITE.--Continuous-record gaging station and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 21 ft^3/s, $Q_{7,10}$ = 17 ft^3/s; $Q_{30,2}$ = 23 ft^3/s, $Q_{30,10}$ = 19 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02370000 Blackwater River near Baker using 22 measurements made during 1963-67 and 1977.
ACCURACY.--$SE_{7,2}$ = 10 percent, $SE_{7,10}$ = 11 percent; $SE_{30,2}$ = 10 percent, $SE_{30,10}$ = 12 percent.
REMARKS.--Operated as a continuous-record streamflow station during 1958-66.

02370230 Sweetwater Creek near Munson, Fla.

LOCATION.--Lat 30°51'20", long 86°51'06", in NW$\frac{1}{4}$ sec. 16, T.4N., R.26W., at bridge on State Highway 4, 1.3 miles east of Munson.
COUNTY.--Santa Rosa. HYDROLOGIC UNIT.--03140104.
DRAINAGE AREA.--45.0 mi^2. TRIBUTARY TO.--Juniper Creek.
TYPE OF SITE.--Periodic measurement station and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 28 ft^3/s, $Q_{7,10}$ = 23 ft^3/s; $Q_{30,2}$ = 31 ft^3/s, $Q_{30,10}$ = 25 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02370200 Big Junifer Creek near Munson using 13 measurements made during 1958-61.
ACCURACY.--$SE_{7,2}$ = 16 percent, $SE_{7,10}$ = 17 percent; $SE_{30,2}$ = 18 percent, $SE_{30,10}$ = 18 percent.

02370250 Big Juniper Creek near Spring Hill, Fla.

LOCATION.--Lat 30°47'06", long 86°53'28", in NE$\frac{1}{4}$ sec. 12, T.3N., R.27W., at wooden bridge at wayside park, 3.2 miles east of Spring Hill, and 8.3 miles upstream from mouth.
COUNTY.--Santa Rosa. HYDROLOGIC UNIT.--03140104.
DRAINAGE AREA.-- 113 mi^2. TRIBUTARY TO.--Blackwater River.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 89 ft^3/s, $Q_{7,10}$ = 56 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02370500 Big Coldwater Creek near Milton using 21 measurements made during 1980-84.
ACCURACY.--$SE_{7,2}$ = 22 percent, $SE_{7,10}$ = 24 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02370270 Big Juniper Creek near Harold, Fla.

LOCATION.--Lat 30°43'36", long 86°53'58", in NE$\frac{1}{4}$ sec. 36, T.3N., R.27W., at bridge on county road, 5.1 miles north of Harold.
COUNTY.--Santa Rosa. HYDROLOGIC UNIT.--03140104.
DRAINAGE AREA.--142 mi^2. TRIBUTARY TO.--Blackwater River.
TYPE OF SITE.--Periodic measurement station and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 127 ft^3/s, $Q_{7,10}$ = 96 ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02370500 Big Coldwater Creek near Milton using 11 measurements made during 1958-77.
ACCURACY.--$SE_{7,2}$ = 14 percent, $SE_{7,10}$ = 18 percent.

02370280 East Fork Big Coldwater Creek near Munson, Fla.

LOCATION.--Lat 30°52'56", long 86°57'28", in SE$\frac{1}{4}$ sec. 5, T.4N., R.27W., at bridge on State Highway 4, 5.4 miles west of Munson.
COUNTY.--Santa Rosa. HYDROLOGIC UNIT.--03140104.
DRAINAGE AREA.--64.0 mi^2. TRIBUTARY TO.--Big Coldwater Creek.
TYPE OF SITE.--Periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 36 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02370500 Big Coldwater Creek near Milton using 14 measurements made during 1958-61.
ACCURACY.--$SE_{7,2}$ = 36 percent.

02370300 West Fork Big Coldwater Creek at Cobbtown, Fla.

LOCATION.--Lat 30°53'00", long 87°06'30", in SE$\frac{1}{4}$ sec. 2, T.4N., R.29W., at bridge on county road, 0.6 mile east of Cobbtown.
COUNTY.--Santa Rosa. HYDROLOGIC UNIT.--03140104.
DRAINAGE AREA.--39.5 mi^2. TRIBUTARY TO.--Big Coldwater Creek.
TYPE OF SITE.--Continuous-record gaging station and miscellaneous site.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 32 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 35 ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02370500 Big Coldwater Creek near Milton using 33 measurements made during 1958-77.
ACCURACY.--$SE_{7,2}$ = 18 percent; $SE_{30,2}$ = 18 percent.
REMARKS.--Operated as a continuous-record streamflow station during 1958-62.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02370500 Big Coldwater Creek near Milton, Fla.

LOCATION.--Lat 30°42'30", long 86°58'20", in SW$\frac{1}{4}$ sec. 5, T.2N., R.27W., at bank near bridge on State Highway 191, 3 miles upstream from mouth, and 6.5 miles northeast of Milton.

COUNTY.-- Santa Rosa.

HYDROLOGIC UNIT.--03140104

DRAINAGE AREA.--237 mi^2.

TRIBUTARY TO.--Blackwater River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1939 to March 1979 and April 1981 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	264	266	270	278	295	324	353	368	406
5	219	222	226	232	245	263	285	295	320
10	197	200	204	211	221	235	253	263	284
20	180	184	188	193	202	214	229	240	258
50	162	166	170	175	182	191	204	216	233

ACCURACY.--$SE_{7,2}$ = 3 percent, $SE_{7,10}$ = 4 percent; $SE_{30,2}$ = 4 percent, $SE_{30,10}$ = 4 percent.

02370700 Pond Creek near Milton, Fla.

LOCATION.--Lat 30°40'50", long 87°07'55", in SE$\frac{1}{4}$ sec. 15, T.2N., R.29W., at bridge on State Highway 191, 6.4 miles northwest of Milton, and 10 miles upstream from mouth.

COUNTY.--Santa Rosa.

HYDROLOGIC UNIT.--03140104.

DRAINAGE AREA.--58.7 mi^2.

TRIBUTARY TO.--Blackwater River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1958 to March 1978.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	46	47	48	49	51	56	60	63	67
5	38	38	39	40	41	44	47	49	51
10	34	34	34	35	36	38	40	42	44
20	30	30	30	31	32	33	35	36	38

ACCURACY.--$SE_{7,2}$ = 6 percent, $SE_{7,10}$ = 5 percent; $SE_{30,2}$ = 6 percent, $SE_{30,10}$ = 6 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02367320 East Bay River near Wynnehaven Beach, Fla.

LOCATION.--Lat 30°25'53", long 86°46'20", in NE$\frac{1}{4}$ sec. 8, T.2S., R.25W., Eglin Air Force Base, at bridge on clay road, 1.5 miles north of Wynnehaven Beach.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140105.

DRAINAGE AREA.--62.0 mi^2.

TRIBUTARY TO.--East Bay.

TYPE OF SITE.--Continuous-record gaging station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 147 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 156 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02367310 Juniper Creek at State Highway 85, near Niceville using 10 measurements made during 1977-81.

REMARKS.--Operated at a continuous-record streamflow station during 1966-68.

02367390 Turtle Creek near Ocean City, Fla.

LOCATION.--Lat 30°30'31", long 86°40'13", in SE$\frac{1}{4}$ sec. 8, T.1S., R.24W., Eglin Air Force Base, at culvert on sand road, 6.4 miles northwest of Ocean City.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140105.

DRAINAGE AREA.-- 22.3 mi^2.

TRIBUTARY TO.--East Bay River.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 44 ft^3/s, $Q_{7,10}$ = 39 ft^3/s; $Q_{30,2}$ = 45 ft^3/s, $Q_{30,10}$ = 40 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02367310 Juniper Creek at State Highway 85, near Niceville using 8 measurements made during 1977-81.

ACCURACY.--$SE_{7,2}$ = 12 percent, $SE_{7,10}$ = 14 percent; $SE_{30,2}$ = 12 percent, $SE_{30,10}$ = 13 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1977-81 (incomplete).

02367397 Live Oak Creek near Florosa, Fla.

LOCATION.--Lat 30°30'39", long 86°42'53", in SW$\frac{1}{4}$ sec. 11, T.1S., R.25W., Eglin Air Force Base, at bridge on dirt road, 6.9 miles upstream from mouth.

COUNTY.--Okaloosa.

HYDROLOGIC UNIT.--03140105.

DRAINAGE AREA.--16.2 mi^2.

TRIBUTARY TO.--East Bay River.

TYPE OF SITE.--Crest-stage partial-record station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 57 ft^3/s, $Q_{7,10}$ = 50 ft^3/s; $Q_{30,2}$ = 58 ft^3/s, $Q_{30,10}$ = 51 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02367310 Juniper Creek at State Highway 85, near Niceville using 19 measurements made during 1977-81.

ACCURACY.--$SE_{7,2}$ = 14 percent, $SE_{7,10}$ = 17 percent; $SE_{30,2}$ = 14 percent, $SE_{30,10}$ = 17 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02376300 Brushy Creek near Walnut Hill, Fla.

LOCATION.--Lat 30°53'21", long 87°32'24", in SE$\frac{1}{4}$ sec. 4, T.4N., R.33W., at bank near county road bridge, 2.0 miles west of Walnut Hill, and 7.9 miles upstream from mouth.

COUNTY.--Escambia.

HYDROLOGIC UNIT.--03140106.

DRAINAGE AREA.--49 mi^2, approximately.

TRIBUTARY TO.--Perdido River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1958 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	51	51	52	53	56	61	64	69	75
5	45	46	46	48	50	53	55	59	63
10	42	43	44	45	47	49	52	55	58
20	40	41	41	43	45	47	49	52	55

ACCURACY.--$SE_{7,2}$ = 3 percent, $SE_{7,10}$ = 3 percent; $SE_{30,2}$ = 3 percent, $SE_{30,10}$ = 3 percent.

02376400 McDavid Creek near Barrineau Park, Fla.

LOCATION.--Lat 30°44'22", long 87°26'54", in NE$\frac{1}{4}$ sec. 33, T.3N., R.32W., at bridge on State Highway 99, 3.2 miles north of Barrineau Park.

COUNTY.--Escambia.

HYDROLOGIC UNIT.--03140106.

DRAINAGE AREA.-- 26.5 mi^2

TRIBUTARY TO.--Perdido River.

TYPE OF SITE.--Periodic measurement station and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 12 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 14 ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02376000 Pine Barren Creek near Barth using 15 mueasurements made during 1958-77.

ACCURACY.--$SE_{7,2}$ = 31 percent; $SE_{30,2}$ = 30 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02376500 Perdido River at Barrineau Park, Fla.

LOCATION.--Lat 30°41'25", long 87°26'25", in NW¼ sec. 23, T.4S., R.6E., on bank near bridge on county road, 0.5 mile southwest of Barrineau Park, and 27 miles upstream from mouth.

COUNTY.--Baldwin (Alabama).

HYDROLOGIC UNIT.--03140106.

DRAINAGE AREA.--394 mi^2.

TRIBUTARY TO.--Perdido Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1942 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	274	278	287	298	323	365	411	453	522
5	238	241	246	253	267	294	323	349	401
10	221	223	226	231	241	261	283	304	347
20	208	209	211	214	221	236	253	271	308
50	194	194	195	196	200	210	223	238	269

ACCURACY.--$SE_{7,2}$ = 3 percent, $SE_{7,10}$ = 3 percent; $SE_{30,2}$ = 4 percent, $SE_{30,10}$ = 4 percent.

02376700 Jacks Branch near Muscogee, Fla.

LOCATION.--Lat 30°38'13", long 87°23'10", in N¼ sec. 6, T.1N., R.31W., near left bank on county road bridge, 2.3 miles north of Muscogee.

COUNTY.--Escambia.

HYDROLOGIC UNIT.--03140106.

DRAINAGE AREA.-- 23.2 mi^2.

TRIBUTARY TO.--Perdido River.

TYPE OF SITE.--Continuous-record gaging station and miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 2.4 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02376300 Brushy Creek near Walnut Hill using 17 measurements made during 1959-65.

ACCURACY.--$SE_{7,2}$ = 55 percent.

REMARKS.--Operated as continuous-record streamflow station during 1958-62.

02364620 Eightmile Creek near Gaskin, Fla.

LOCATION.--Lat 30°58'50", long 86°10'45", in NW¼ sec. 31, T.6N., R.19W., at bridge on State Highway 181, 2.7 miles west of Gaskin, and 6.2 miles above mouth.

COUNTY.--Walton.

HYDROLOGIC UNIT.--03140202.

DRAINAGE AREA.--24.9 mi^2.

TRIBUTARY TO.--Pea River.

TYPE OF SITE.--Crest-stage partial-record station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 9.4 ft^3/s, $Q_{7,10}$ = 5.3 ft^3/s; $Q_{30,2}$ = 12 ft^3/s, $Q_{30,10}$ = 6.5 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02368500 Shoal River near Mossy Head using 21 measurements made during 1968-70.

ACCURACY.--$SE_{7,2}$ = 31 percent, $SE_{7,10}$ = 34 percent; $SE_{30,2}$ = 30 percent, $SE_{30,10}$ = 34 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02365200 Choctawhatchee River near Pittman, Fla.

LOCATION.--Lat 30°56'59", long 85°50'35", in NW$\frac{1}{4}$ sec. 9, T.6N., R.16W., at bank near bridge on State Highway 2, 1.5 miles west of Pittman, and 84 miles upstream from mouth.

COUNTY.--Holmes. HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.--3,210 mi^2. TRIBUTARY TO.--Chowtawhatchee Bay.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1,050 ft^3/s, $Q_{7,10}$ = 718 ft^3/s; $Q_{30,2}$ = 1,250 ft^3/s, $Q_{30,10}$ = 832 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02365500 Choctawhatchee River at Caryville using 23 measurements made during 1975-81.

ACCURACY.--$SE_{7,2}$ = 12 percent, $SE_{7,10}$ = 12 percent; $SE_{30,2}$ = 11 percent, $SE_{30,10}$ = 12 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1976-81.

02365482 Wrights Creek near Caryville, Fla.

LOCATION.--Lat 30°49'37", long 85°48'33", in SE$\frac{1}{4}$ sec. 23, T.5N., R.16W., at wooden deck bridge, 1 mile upstream from mouth, and 3.6 miles north of Caryville.

COUNTY.--Holmes. HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.-- 166 mi^2. TRIBUTARY TO.--Choctawhatchee River.

TYPE OF SITE.--Continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 36 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02366000 Holmes Creek at Vernon using 12 measurements made during 1975-76.

REMARKS.--Operated as a continuous-record streamflow station during 1975-76.

02365500 Choctawhatchee River at Caryville, Fla.

LOCATION.--Lat 30°46'32", long 85°49'40", in NW$\frac{1}{4}$ sec. 10, T.4N., R.16W., at bridge on U.S. Highway 90, 0.8 mile west of Caryville, 1.8 miles downstream from Wrights Creek, and 64 miles upstream from mouth.

COUNTY.--Holmes. HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.--3,499 mi^2. TRIBUTARY TO.--Choctawhatchee Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1930 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1,200	1,220	1,260	1,330	1,490	1,740	2,030	2,250	2,700
5	938	951	981	1,030	1,140	1,310	1,480	1,620	1,930
10	841	851	876	921	1,010	1,150	1,280	1,390	1,640
20	775	784	805	849	923	1,040	1,140	1,230	1,440
50	714	722	739	782	840	941	1,000	1,090	1,260

ACCURACY.--$SE_{7,2}$ = 5 percent, $SE_{7,10}$ = 8 percent; $SE_{30,2}$ = 5 percent, $SE_{30,10}$ = 8 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02365658 Sandy Creek near Argyle, Fla.

LOCATION.--Lat 30°45'49", long 86°01'22", in SE¼ sec. 10, T.3N., R.18W., at bridge on State Highway 183A, 3.5 miles north of Argyle, and 19 miles above mouth.

COUNTY.--Holmes. HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.-- 51.8 mi^2. TRIBUTARY TO.--Choctawhatchee River.

TYPE OF SITE.--Periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 11 ft^3/s, $Q_{7,10}$ = 4.2 ft^3/s; $Q_{30,2}$ = 17 ft^3/s, $Q_{30,10}$ = 5.5 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02367000 Alaqua Creek near De Funiak Springs using 13 measurements made during 1968-70.

ACCURACY.--$SE_{7,2}$ = 44 percent, $SE_{7,10}$ = 54 percent; $SE_{30,2}$ = 43 percent, $SE_{30,10}$ = 52 percent.

02365700 Sandy Creek at Ponce de Leon, Fla.

LOCATION.--Lat 30°43'28", long 85°56'12", in SE¼ sec. 28, T.4N., R.17W., at bridge on State Highway 81 at Ponce de Leon, and 10 miles above mouth.

COUNTY.--Holmes. HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.--80.7 mi^2. TRIBUTARY TO.--Choctawhatchee River.

TYPE OF SITE.--Crest-stage partial-record station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 14 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02367006 Alaqua Creek near Portland using 24 measurements made during 1980-84.

02365758 Bruce Creek near Redbay, Fla.

LOCATION.--Lat 30°36'51", long 86°00'50", in NE¼ sec. 2, T.1N., R.18W., at wooden bridge on graded road, 4.5 miles northwest of Redbay, and 10 miles above mouth.

COUNTY.--Walton. HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.--51.4 mi^2. TRIBUTARY TO.--Choctawhatchee River.

TYPE OF SITE.--Crest-stage partial-record station and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 12 ft^3/s, $Q_{7,10}$ = 4.7 ft^3/s; $Q_{30,2}$ = 16 ft^3/s, $Q_{30,10}$ = 6.0 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02367000 Alaqua Creek near De Funiak Springs using 22 measurements made during 1968-70.

ACCURACY.--$SE_{7,2}$ = 42 percent, $SE_{7,10}$ = 47 percent; $SE_{30,2}$ = 42 percent, $SE_{30,10}$ = 47 percent.

02365800 Seven Runs near Redbay, Fla.

LOCATION.--Lat 30°32'18", long 85°51'14", in NW¼ sec. 35, T.2N., R.17W., at bridge on State Highway 81, 3.0 miles upstream from mouth, and 4.1 miles south of Redbay.

COUNTY.--Walton. HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.--25.8 mi^2. TRIBUTARY TO.--Choctawhatchee River.

TYPE OF SITE.--Miscellaneous measurement site and continuous-record gaging station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 30 ft^3/s, $Q_{7,10}$ = 20 ft^3/s; $Q_{30,2}$ = 36 ft^3/s, $Q_{30,10}$ = 22 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02367000 Alaqua Creek near De Funiak Springs using 12 measurements made during 1965-70.

ACCURACY.--$SE_{7,2}$ = 22 percent, $SE_{7,10}$ = 26 percent; $SE_{30,2}$ = 21 percent, $SE_{30,10}$ = 26 percent.

REMARKS.--Operated as a continuous-record streamflow station during 1968-70.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02366000 Holmes Creek at Vernon, Fla.

LOCATION.--Lat 30°37'35", long 85°42'45", in NE$\frac{1}{4}$ sec. 35, T.3N., R.15W., at left bank near bridge on State Highway 79 at Vernon, and 25 miles upstream from mouth.

COUNTY.--Washington.

HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.--386 mi^2.

TRIBUTARY TO.--Choctawhatchee River.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1950 to March 1979.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	312	313	317	320	329	335	352	371	419
5	281	283	285	287	292	298	304	311	336
10	266	267	269	272	277	287	290	293	309
20	254	255	257	261	266	280	281	283	291

ACCURACY.--$SE_{7,2}$ = 2 percent, $SE_{7,10}$ = 3 percent; $SE_{30,2}$ = 4 percent, $SE_{30,10}$ = 6 percent.

02366500 Choctawhatchee River near Bruce, Fla.

LOCATION.--Lat 30°27'03", long 85°53'54", in NE$\frac{1}{4}$ sec. 36, T.1N., R.17W., at bridge on State Highway 20, 4.0 miles southeast of Bruce, 5.8 miles downstream from Holmes Creek, and 21 miles upstream from mouth.

COUNTY.--Walton.

HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.--4,384 mi^2.

TRIBUTARY TO.--Choctawhatchee Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1931 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	2,100	2,110	2,150	2,240	2,440	2,750	3,110	3,400	3,910
5	1,730	1,740	1,760	1,820	1,950	2,140	2,350	2,530	2,860
10	1,580	1,600	1,610	1,650	1,750	1,910	2,060	2,190	2,450
20	1,480	1,500	1,510	1,540	1,610	1,750	1,850	1,960	2,180
50	1,390	1,400	1,420	1,430	1,480	1,600	1,650	1,740	1,910

ACCURACY.--$SE_{7,2}$ = 4 percent, $SE_{7,10}$ = 6 percent; $SE_{30,2}$ = 5 percent, $SE_{30,10}$ = 7 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02366650 Pine Log Creek near Ebro, Fla.

LOCATION.--Lat 30°25'08", long 85°52'18", in NW$\frac{1}{4}$ sec. 8, T.1S., R.16W., at bridge on State Highway 79, 2.0 miles south of Ebro, and 6.0 miles upstream from mouth.

COUNTY.--Bay.

HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.-- 114 mi^2.

TRIBUTARY TO.--Choctawhatchee River.

TYPE OF SITE.--Miscellaneous site and periodic measurement station.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 16 ft^3/s, $Q_{7,10}$ = 8.5 ft^3/s; $Q_{30,2}$ = 21 ft^3/s, $Q_{30,10}$ = 10 ft^3/s.

BASIS OF ESTIMATE.--Analytical correlation with 02367000 Alaqua Creek near De Funiak Springs using 10 measurements made during 1967-77.

ACCURACY.--$SE_{7,2}$ = 38 percent, $SE_{7,10}$ = 43 percent; $SE_{30,2}$ = 38 percent, $SE_{30,10}$ = 43 percent.

02366836 Black Creek near Bruce, Fla.

LOCATION.--Lat 30°28'26", long 85° 59'20", in SW$\frac{1}{4}$ sec. 19, T.1N., R.17W., at bridge on State Highway 20, 1.6 miles west of Bruce.

COUNTY.--Walton.

HYDROLOGIC UNIT.--03140203.

DRAINAGE AREA.--15.2 mi^2.

TRIBUTARY TO.--Choctawhatchee Bay.

TYPE OF SITE.--Miscellaneous site.

LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 3.2 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = -- ft^3/s, $Q_{30,10}$ = -- ft^3/s.

BASIS OF ESTIMATE.--Graphical correlation with 02367000 Alaqua Creek near De Funiak Springs using 4 measurements made during 1969-77.

02375500 Escambia River near Century, Fla.

LOCATION.--Lat 30°57'54", long 87°14'03", in NW$\frac{1}{4}$ sec. 10, T.5N., R.30W., at bank near bridge on State Highway 4, 1.7 miles east of Century, and 52 miles upstream from mouth.

COUNTY.--Santa Rosa.

HYDROLOGIC UNIT.--03140305.

DRAINAGE AREA.--3,817 mi^2.

TRIBUTARY TO.--Escambia Bay.

TYPE OF SITE.--Continuous-record gaging station.

PERIOD OF RECORD ANALYZED.--April 1935 to March 1987.

MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	1,110	1,150	1,190	1,240	1,380	1,620	1,900	2,120	2,630
5	856	878	907	939	1,030	1,150	1,345	1,490	1,830
10	758	774	801	821	889	982	1,130	1,270	1,540
20	691	703	728	740	793	866	989	1,120	1,350
50	627	635	660	663	702	759	853	986	1,170

ACCURACY.--$SE_{7,2}$ = 5 percent, $SE_{7,10}$ = 8 percent; $SE_{30,2}$ = 6 percent, $SE_{30,10}$ = 8 percent.

Table 17. Low-Flow frequency characteristics at continuous-record stations, partial-record stations, and miscellaneous sites in subregion 14 (Choctawhatchee, Yellow, and Escambia Rivers)--Continued

[Dashes indicate data not applicable; ft^3/s, cubic feet per second]

02375800 Moore Creek near Chumuckla, Fla.

LOCATION.--Lat 30°48'35", long 87°15'14", in SW$\frac{1}{4}$ sec. 34, T.4N., R.30W., on county road bridge, 2.5 miles northwest of Chumuckla, and 3.4 miles upstream from mouth.
COUNTY.--Santa Rosa. HYDROLOGIC UNIT.--03140305.
DRAINAGE AREA.-- 22.0 mi^2. TRIBUTARY TO.--Escambia River.
TYPE OF SITE.--Miscellaneous site and periodic measurement station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 22 ft^3/s, $Q_{7,10}$ = -- ft^3/s; $Q_{30,2}$ = 25 ft^3/s, $Q_{30,10}$ = -- ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02376000 Pine Barren Creek near Barth using 29 measurements made during 1958-82.
ACCURACY.--$SE_{7,2}$ = 17 percent; $SE_{30,2}$ = 16 percent.

02376000 Pine Barren Creek near Barth, Fla.

LOCATION.--Lat 30°47'55", long 87°22'05", in SW$\frac{1}{4}$ sec. 5, T.3N., R.31W., at bank near Wiggins Bridge on private road, 4.0 miles northwest of Barth, and 7.3 miles upstream from mouth.
COUNTY.--Escambia. HYDROLOGIC UNIT.--03140305.
DRAINAGE AREA.--75.3 mi^2. TRIBUTARY TO.--Escambia River.
TYPE OF SITE.--Continuous-record gaging station.
PERIOD OF RECORD ANALYZED.--April 1953 to March 1987.
MAGNITUDE AND FREQUENCY OF ANNUAL LOW FLOWS.--

Recurrence interval, in years	Lowest average flow, in cubic feet per second, for indicated number of consecutive days								
	1	3	7	14	30	60	90	120	183
2	78	79	80	83	87	94	100	104	114
5	67	68	69	71	74	79	83	86	93
10	61	62	63	65	67	72	75	78	84
20	57	58	59	60	62	66	69	72	77
50	52	53	54	55	57	60	62	66	70

ACCURACY.--$SE_{7,2}$ = 4 percent, $SE_{7,10}$ = 4 percent; $SE_{30,2}$ = 4 percent, $SE_{30,10}$ = 4 percent.

02376033 Escambia River near Molino, Fla.

LOCATION.--Lat 30°40'12", long 87°16'00", in SE$\frac{1}{4}$ sec. 20, T.2N., R.20W, at bridge on State Highway 184, and 5.5 miles southeast of Molino.
COUNTY.--Escambia. HYDROLOGIC UNIT.--03140305.
DRAINAGE AREA.--4,147 mi^2. TRIBUTARY TO.--Escambia Bay.
TYPE OF SITE.--Periodic measurement station and continous-record gaging station.
LOW-FLOW FREQUENCY.--$Q_{7,2}$ = 1,890 ft^3/s, $Q_{7,10}$ = 1,370 ft^3/s; $Q_{30,2}$ = 2,130 ft^3/s, $Q_{30,10}$ = 1,490 ft^3/s.
BASIS OF ESTIMATE.--Analytical correlation with 02375500 Escambia River near Century using 26 measurements made during 1977-90.
ACCURACY.--$SE_{7,2}$ = 16 percent, $SE_{7,10}$ = 18 percent; $SE_{30,2}$ = 16 percent, $SE_{30,10}$ = 18 percent.
REMARKS.--Low flows are generally tide affected. Operated as a continuous-record stage station since 1979; and as a continuous-record streamflow station since 1984 (incomplete).

Table 18. Continuous-record gaging stations with annual low-flow time series that exhibit significant trends

[ID, identification; Y, Yes; N, No; U, Upward; D, Downward]
Regulated: Y indicates that some form of regulation affects that flow at the gaging site; N indicates that the stream site is not affected by regulation.
Type of trend: U, significant upward trend, and, D, significant downward trend in at least two N-consecutive day annual low-flow time series.
Frequency values adjusted: Based on criteria used in the analyses, N, no adjustment were made to the record to correct for significant trend in low flows; Y, yes, adjustments were made.
Presence of trend in data: Y denotes that a significant trend occurred in the annual low-flow time series for the specified N-consecutive day; N denotes that no trend occurred.

Map ID	Site ID	Site name and locations	Regulated	Type of trend	Frequency values adjusted	Presence of trend in data for indicated number of consecutive days								
						1	3	7	14	30	60	90	120	183
		Sites with significant trends in hydrologic subregions 08 and 09 (Jacksonville and Orlando field areas)												
1	02233200	LITTLE ECONLOCKHATCHEE RIVER NEAR UNION PARK, FL	N	U	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
2	02233500	ECONLOCKHATCHEE RIVER NEAR CHULUOTA, FL	Y	U	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
3	02234324	HOWELL CREEK NEAR SLAVIA, FL	Y	D	N	Y	Y	Y	Y	N	N	N	N	N
4	02234990	LITTLE WEKIVA RIVER NEAR ALTAMONTE SPRINGS, FL	N	U	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
5	02235000	WEKIVA RIVER NEAR SANFORD, FL	N	U	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
6	02237700	APOPKA-BEAUCLAIR CANAL NEAR ASTATULA, FL	Y	U	N	N	Y	Y	Y	Y	Y	Y	N	N
7	02238500	OKLAWAHA RIVER AT MOSS BLUFF, FL	Y	D	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
8	02240954	HOGTOWN CREEK NEAR ARREDONDO, FL	N	D	N	Y	Y	Y	Y	Y	Y	N	N	N
9	02243960	OKLAWAHA RIVER AT RODMAN DAM, NEAR ORANGE SPRINGS, FL	Y	D	N	N	N	N	N	N	Y	Y	Y	Y
10	02248000	SPRUCE CREEK NEAR SAMSULA, FL	Y	U	N	Y	Y	Y	Y	N	N	N	N	N
11	02252500	NORTH CANAL NEAR VERO BEACH, FL	Y	U	N	N	N	N	Y	Y	Y	Y	Y	Y
12	02253000	MAIN CANAL AT VERO BEACH, FL	Y	D	N	Y	Y	N	Y	Y	Y	Y	Y	Y
13	02263800	SHINGLE CREEK AT AIRPORT, NEAR KISSIMMEE, FL	N	U	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
14	02264000	CYPRESS CREEK AT VINELAND, FL	Y	D	N	N	N	N	N	Y	Y	Y	Y	Y
15	02264495	SHINGLE CREEK AT CAMPBELL, FL	Y	U	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
16	02266300	REEDY CREEK NEAR VINELAND, FL	Y	U	N	Y	Y	Y	Y	N	Y	Y	Y	Y
17	02267000	CATFISH CREEK NEAR LAKE WALES, FL	N	D	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
18	02268903	KISSIMMEE RIVER AT S-65, NEAR LAKE WALES, FL	Y	D	N	N	N	N	Y	Y	Y	N	N	N
19	02270500	ARBUCKLE CREEK NEAR DE SOTO CITY, FL	Y	D	N	Y	Y	Y	Y	Y	Y	Y	N	Y
20	02273000	KISSIMMEE RIVER AT S-65E, NEAR OKEECHOBEE, FL	Y	D	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
21	02274495	WILLIAMSON DITCH AT S-7, NEAR OKEECHOBEE, FL	Y	D	N	Y	Y	Y	Y	Y	Y	Y	N	N
		Sites with significant trends in hydrologic subregion 10 (Tampa field area)												
22	02294650	PEACE RIVER AT BARTOW, FL	Y	D	N	Y	Y	Y	Y	Y	N	N	N	N
23	02295637	PEACE RIVER NEAR ZOLFO SPRINGS, FL	N	D	N	Y	Y	N	N	N	N	N	N	N
24	02296223	LITTLE CHARLEY BOWLEGS CREEK NEAR SEBRING, FL	Y	D	N	N	N	N	N	Y	Y	Y	N	N
25	02297100	JOSHUA CREEK AT NOCATEE, FL	N	U	N	Y	Y	Y	Y	Y	Y	Y	N	N
26	02298830	MYAKKA RIVER NEAR SARASOTA, FL	N	U	N	Y	Y	Y	Y	Y	Y	Y	Y	N
27	02300500	LITTLE MANATEE RIVER NEAR WIMAUMA, FL	Y	U	N	Y	Y	Y	Y	Y	Y	Y	Y	N
28	02301500	ALAFIA RIVER AT LITHIA, FL	N	U	N	Y	Y	Y	Y	Y	Y	Y	Y	Y

Table 18. Continuous-record gaging stations with annual low-flow time series that exhibit significant trends

[ID, identification; Y, Yes; N, No; U, Upward; D, Downward]
Regulated: Y indicates that some form of regulation affects that flow at the gaging site; N indicates that the stream site is not affected by regulation.
Type of trend: U, significant upward trend, and, D, significant downward trend in at least two N-consecutive day annual low-flow time series.
Frequency values adjusted: Based on criteria used in the analyses, N, no adjustment were made to the record to correct for significant trend in low flows; Y, yes, adjustments were made.
Presence of trend in data: Y denotes that a significant trend occurred in the annual low-flow time series for the specified N-consecutive day; N denotes that no trend occurred.

Map ID	Site ID	Site name and locations	Regulated	Type of trend	Frequency values adjusted	Presence of trend in data for indicated number of consecutive days								
						1	3	7	14	30	60	90	120	183
29	02304500	HILLSBOROUGH RIVER NEAR TAMPA, FL	Y	D	N	Y	Y	Y	Y	Y	Y	Y	Y	N
30	02306500	SWEETWATER CREEK NEAR SULPHUR SPRINGS, FL	Y	U	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
31	02307323	BROOKER CREEK NEAR LAKE FERN, FL	Y	U	N	N	N	N	N	N	Y	Y	Y	Y
32	02307498	LAKE TARPON CANAL AT S551 NEAR OLDSMAR, FL	Y	U	N	N	N	N	Y	Y	N	N	N	N
33	02307697	ALLIGATOR CREEK AT SAFETY HARBOR, FL	N	U	N	N	N	N	N	Y	Y	Y	Y	Y
34	02313230	WITHLACOOCHEE RIVER AT INGLIS DAM NEAR DUNNELLON, FL	Y	U	N	Y	Y	N	N	N	N	N	N	N
		Sites with significant trends in hydrologic subregions 11 to 14 (Tallahassee field area)												
35	02320700	SANTA FE RIVER NEAR GRAHAM, FL	N	D	N	N	N	N	N	Y	Y	Y	Y	N
36	02321000	NEW RIVER NEAR LAKE BUTLER, FL	N	U	N	Y	Y	Y	Y	N	N	N	N	N
37	02321500	SANTA FE RIVER AT WORTHINGTON SPRINGS, FL	N	U	N	Y	Y	Y	Y	Y	Y	N	N	N
38	02322000	SANTA FE RIVER NEAR HIGH SPRINGS, FL	N	U	Y	N	N	Y	Y	Y	Y	Y	Y	N
39	02324400	FENHOLLOWAY RIVER NEAR FOLEY, FL	N	D	N	Y	Y	Y	Y	N	N	N	N	N
40	02324500	FENHOLLOWAY RIVER AT FOLEY, FL	Y	U	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
41	02330000	OCHLOCKONEE RIVER NEAR BLOXHAM, FL	Y	U	N	Y	Y	N	N	N	N	N	N	N
42	02358000	APALACHICOLA RIVER AT CHATTAHOOCHEE, FL	Y	U	N	Y	Y	N	N	N	N	N	N	N
43	02366000	HOLMES CREEK AT VERNON, FL	N	U	Y	Y	Y	Y	Y	N	N	N	N	N