

SELECTED FLOW CHARACTERISTICS OF  
FLORIDA STREAMS AND CANALS

By Donald W. Foose

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## CONTENTS

	Page
Abstract -----	1
Introduction -----	1
Purpose and scope -----	1
Acknowledgments -----	1
Selection of discharge records -----	2
Data by station -----	2
Station descriptions -----	2
Hydrographs -----	2
Flow duration -----	8
Low flows -----	10
Technique for constructing flow-duration curves -----	10
References -----	12
Streamflow stations -----	13
Index of stations -----	261

## ILLUSTRATIONS

	Page
Figure 1. Plot of duration curves for representative streams in Florida -----	11
2-19 Map showing stations in the:	
2. St. Marys River basin and the coastal area between the St. Marys and St. Johns Rivers -----	14
3. St. Johns River basin above the Oklawaha River -----	21
4. Oklawaha River basin -----	31
5. St. Johns River basin below the Oklawaha River -----	46
6. Coastal area between the St. Johns and St. Lucie Rivers --	52
7. Kissimmee River, Taylor Creek, and Fisheating Creek basins -----	63
8. Everglades and the southeastern coastal area north of latitude 26 degrees -----	95
9. Everglades and southeastern coastal area south of latitude 26 degrees -----	118
10. Big Cypress Swamp and southwestern coastal area, including the Caloosahatchee River -----	129
11. Peace and Myakka River basins -----	149
12. Manatee, Little Manatee, Alafia and Hillsborough River basins, Tampa Bay and coastal areas -----	163
13. Coastal area from Tampa Bay to Withlacoochee River and the Withlacoochee River basin -----	187
14. Waccasassa and Suwannee River basins -----	206
15. Coastal area between the Suwannee and Aucilla Rivers, and the Aucilla River basin -----	221
16. St. Marks and Ochlockonee River basins and the coastal area between the Ochlockonee and Apalachicola Rivers ---	227
17. Apalachicola River basin including the Chipola River basin -----	236
18. Choctawhatchee River basin below Pea River, and inflow areas for St. Andrew and Choctawhatchee Bays -----	240
19. Yellow, Blackwater, Escambia and Perdido River basins ----	248

## TABLES

	Page
Table 1. Streamflow records for selected stations -----	3
2. Duration tables of daily values for Kissimmee River at S-65E near Okeechobee, Fla. -----	9

## CONVERSION FACTORS

[Factors for converting inch-pound units to International System of Units  
(SI) and abbreviation of units]

<u>Multiply</u>	<u>By</u>	<u>To obtain</u>
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
square mile (mi <sup>2</sup> )	2.590	square kilometer (km <sup>2</sup> )
cubic foot per second (ft <sup>3</sup> /s)	0.02832	cubic meter per second (m <sup>3</sup> /s)
inch per year (in/yr)	25.4	millimeter per year (mm/a)
acre-foot per year (acre-ft/yr)	0.001233	cubic hectometer per year (hm <sup>3</sup> )

# SELECTED FLOW CHARACTERISTICS OF FLORIDA STREAMS AND CANALS

By Donald W. Foose

## ABSTRACT

This report contains data and statistics on low-flow frequency for 254 stream-gaging stations on Florida streams and canals. The selected stations have 10 or more years of continuous record. A site description, a 10-year hydrograph, and a table of flow duration are presented for each station. A computed monthly 7-day, 10-year low flow is presented for stations when flow is not significantly altered by dams, increased or decreased significantly by diversion, or influenced by tides.

## INTRODUCTION

The flow of water in streams and canals is not constant. The flow fluctuates naturally because of variations in precipitation and because of man's activities. The effective management of surface waters depends upon a knowledge of the characteristics of the flow in the individual stream or canal. A knowledge of the frequency, duration, and amount of high, low, and sustained flow in the stream is necessary for the design and operation of structures to control the flow of water for municipal, industrial, and irrigation uses; for disposal of sewage and other wastes; for the construction of bridges and highways; and for recreational use.

### Purpose and Scope

This report presents statistical summaries of flow duration and low flows at gaging stations in Florida with 10 or more years of record. These summaries provide a common foundation for use in hydrologic investigations and management of surface-water resources, and for administration of laws governing Florida's water resources. It updates a previous report, similar in content and scope, by Heath and Wimberly (1971).

This report contains station descriptions; hydrographs for the latest 10-year period; and duration tables for stream-gaging stations with 10 or more complete years of daily discharge records through October 1979; and for gaging stations where flow is not controlled by dams, increased or decreased significantly by diversion, or influenced by tides. A monthly summary of 7-day, 10-year low flow statistics is also given. An alphabetical listing of stations at the back of this report gives the page number where the station data are found.

### Acknowledgments

Appreciation is extended to Martha Thagard of the U.S. Geological Survey in Florida who retrieved the basic data used in this report and who plotted the hydrographs, and to Linda Geiger, also with the Survey in Florida, who determined the monthly 7-day, 10-year low flow statistics.

## SELECTION OF DISCHARGE RECORDS

Discharge records, from a network of gaging stations on streams and canals in Florida, have been collected and published by the U.S. Geological Survey on a continuing basis since about 1930. Records for a few stations are available prior to 1930.

Table 1, period of record for selected stations, lists gaging stations in Florida that have 10 or more years of record. The stations are listed in the table in downstream order by hydrologic unit (Conover and Leach, 1975). The list indicates the ranking of streams, with each tributary indented two spaces. Also shown are the years of record for each gaging station. The "X" indicates flow in unaltered streams and the "R" indicates regulated flow.

## DATA BY STATION

### Station Descriptions

The description of each gaging station includes information that should be considered when using the data. The "location" and "drainage area" were determined by inspection of the site and from U.S. Geological Survey 7.5-minute, 1:24,000 scale, topographic maps. The location is shown by latitude and longitude, by the nearest quarter section within the township and range, by county, by hydrologic unit, and by distance to a nearby town and distance to the mouth of the stream. The "Period of record" shows the periods for which there are published streamflow records. Circumstances that affect flow, such as diversion of water to or from another basin, transfer of water (after use) from a ground-water source to a surface-water source, or from a surface-water source to a ground-water source, or reversed flow caused by wind or tide, or interconnection between basins, are described in "Remarks." When these circumstances so alter the flow that reasonable annual low-flow frequencies could not be determined by Hughes (1981), or for the monthly summary included in this report, that also is noted in "Remarks." "Average discharge" is the mean discharge for the entire period of record. Under "Extremes for period of record," the maximum and minimum discharges and gage heights for the period of record are listed. When a maximum discharge or gage height that predates the period of record has been determined either by direct or indirect measurements, it is listed under a separate heading, "Extremes outside period of record."

### Hydrographs

The station description is followed by a plot of monthly mean flow, from October 1969 through September 1979, for stations in operation at the end of water year 1979. For stations not in operation then, the hydrograph is for the final 10 years before the station was discontinued. The flow is termed discharge and is plotted arithmetically for some stations, typically stations with a moderate range of flow and some negative discharge (reverse flow), and logarithmically for other stations. The units of discharge are listed along the ordinate as "Discharge in CFS," (cubic feet per second),

**Table 1.-- Streamflow records for selected stations.**

[illegible]

**Table 1.-- Streamflow records for selected stations (Continued)**

GAGING STATION NAME AND LOCATION	PERIOD OF RECORD												PAGE
	1	1	1	1	1	1	1	1	1	1	1	1	
	9	9	9	9	9	9	9	9	9	9	9	9	
	2	2	3	3	4	5	5	6	6	7	7	8	
	0	5	0	5	0	5	0	5	0	5	0	5	0
FISHEATING CREEK BASIN AND INFLOW TO LK OKEECHOBEE FROM NORTHWEST													
LAKE OKEECHOBEE:													
FISHEATING CREEK NR VENUS FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	64
FISHEATING CREEK AT PALMDALE FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	65
HARNEY POND CANAL AT S-71 NR LAKEPORT FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	66
INDIAN PRAIRIE CANAL AT S-72 NR OKEECHOBEE FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	67
INDIAN PRAIRIE CANAL NR OKEECHOBEE FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	68
KISSIMMEE RIVER BASIN													
LAKE OKEECHOBEE:													
KISSIMMEE RIVER HEADWATERS:													
MYRTLE-MARY JANE CANAL NR NARCOOSSEE FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	69
BOGGY CREEK NR TAFT FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	70
ST CLOUD CANAL AT S-59 NR ST CLOUD FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	71
SHINGLE CREEK AT AIRPORT NR KISSIMMEE FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	72
BONNET CREEK:													
CYPRESS CREEK AT VINELAND FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	73
BONNET CREEK NR VINELAND FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	74
SHINGLE CREEK AT CAMPBELL FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	75
REEDY CREEK:													
WHITTENHORSE CREEK NR VINELAND FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	76
REEDY CREEK NR VINELAND FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	77
DAVENPORT CREEK NR LOUGHMAN FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	78
REEDY CREEK NR LOUGHMAN FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	79
KISSIMMEE RIVER:													
CATFISH CREEK NR LAKE WALES FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	80
KISSIMMEE RIVER NR LAKE WALES FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	81
KISSIMMEE RIVER AT S-65 NR LAKE WALES FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	82
LIVINGSTON CREEK:													
REEDY CREEK NR FROSTPROOF FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	83
ARBUCKLE CREEK:													
CARTER CREEK NR SEBRING FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	84
ARBUCKLE CREEK NR DE SOTO CITY FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	85
ARBUCKLE CREEK:													
STEARNS CREEK NR LAKE PLACID FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	86
JOSEPHINE CREEK NR DE SOTO CITY FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	87
ISTOKPOGA CANAL NR CORNWELL FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	88
KISSIMMEE RI AT S-65E NR OKEECHOBEE, FL . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	89
LAKE OKEECHOBEE:													
KISSIMMEE RIVER DIVERSION:													
CANAL 41A AT S-68 AT LK ISTOKPOGA NR LK PLACID. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	90
CANAL 41A AT S-84 NR OKEECHOBEE FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	91
TAYLOR CREEK BASIN AND INFLOW TO LK OKEECHOBEE FROM NORTH													
LAKE OKEECHOBEE:													
TAYLOR CREEK NR BASSINGER FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	92
WILLIAMSON DITCH AT S-7 NR OKEECHOBEE FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	93
TAYLOR CREEK ABOVE OKEECHOBEE FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	94
EVERGLADES AND SOUTHEASTERN COASTAL AREA													
LAKE OKEECHOBEE OUTFLOW:													
ST LUCIE RIVER:													
SOUTH FORK ST LUCIE RIVER:													
ST LUCIE CANAL AT LAKE OKEECHOBEE FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	96
MONREVE RANCH DRAINAGE CANAL NR STUART FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	97
ST LUCIE CANAL AT LOCK NR STUART FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	98
SOUTH FORK ST LUCIE RIVER:													
NORTH FORK ST LUCIE RIVER:													
INDIAN RIVER (ESTUARY):													
WEST PALM BEACH CANAL AT HGS-5 AT CANAL POINT FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	99
W PALM BEACH CANAL ABOVE S-5A NR LOXAHATCHEE FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	100
DIVERSIONS TO CONS AREA 1 AT S-5A NR LOXAHATCHEE F. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	101
LEEVEE 8 CANAL AT WEST PALM BEACH CANAL NR LOXAH . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	102
W PALM BEACH CANAL BELOW S-5AE NR LOXAHATCHEE FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	103
WEST PALM BEACH CANAL AT WEST PALM BEACH FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	104
LAKE WORTH (ESTUARY):													
HILLSBORO CANAL BELOW HGS-4 NR SOUTH BAY FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	105
HILLSBORO CANAL AT S-6 NR SHAWANO FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	106
HILLSBORO CANAL AT S-39 NR DEERFIELD BEACH FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	107
HILLSBORO CANAL NR DEERFIELD BEACH FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	108
INTERCOASTAL WATERWAY:													
CYPRESS CREEK CANAL AT S-37A, NEAR POMPANO BEACH . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	109
MIDDLE RIVER CANAL AT S-36 NR FT LAUDERDALE FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	110
PLANTATION RD CANAL AT S-33 NR FT LAUDERDALE FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	111
N NEW RIV CN AT S-2 AND HGS-4 NR SOUTH BAY FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	112
N NEW R CA BL HGS4 NR SOUTH BAY FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	113
NORTH NEW RIVER CANAL AT S-7, AT TERRYTOWN FLA. . . . .	.	.	.	.	.	.	.	.	.	.	.	.	114
NORTH NEW R CA NR FT LAUDERDALE FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	115
SOUTH NEW RIVER CANAL AT S-9 NR DAVIE FLA . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	116

**Table 1.-- Streamflow records for selected stations (Continued)**

GAGING STATION NAME AND LOCATION	PERIOD OF RECORD												PAGE
	1	1	1	1	1	1	1	1	1	1	1	1	
	9	9	9	9	9	9	9	9	9	9	9	9	
	2	2	3	3	4	4	5	5	6	6	7	7	
	0	5	0	5	0	5	0	5	0	5	0	5	0
SOUTH NEW RIVER CANAL AT S13 NR DAVIE FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				117
SNAKE CREEK CANAL AT NW 67 AVENUE NR HIALEAH FLA. . . . .									RRRRRRRRRRRRRRRRRRRRRR				119
SNAKE CREEK AT S29 AT NORTH MIAMI BEACH FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				120
BISCAYNE BAY:													
BISCAYNE CANAL AT S-28 NR MIAMI FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				121
LITTLE RIVER CANAL AT S 27 AT MIAMI FLA . . . . .									RRRRRRRRRR	RRRRRRRR			122
MIAMI CANAL AT HGS3 AND S3 AT LAKE HARBOR FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				123
MIAMI CANAL AT S-8 NR LAKE HARBOR FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				124
MIAMI CANAL EAST OF LEVEE 30 NR MIAMI FLA . . . . .										XXXXXXXXXX			125
MIAMI CANAL AT PALMETTO BY PASS NR HIALEAH FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				126
MIAMI CANAL AT WATER PLANT HIALEAH FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				127
MIAMI CANAL AT NW 36TH ST MIAMI FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				128
TAMIAMI CANAL OUTLETS MONROE TO CARNESTOWN FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				130
TAMIAMI CANAL OUTLETS 40 MILE BEND TO MONROE FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				131
TAMIAMI CANAL OUTLETS, MIAMI TO MONROE FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				132
LEVEE 3 CANAL NR CLEWISTON FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				133
TAMIAMI CANAL OUTLETS LEVEE 67A TO 40MILE B NR . . . . .									RRRRRRRRRRRRRRRRRRRRRR				134
TAMIAMI CANAL OUTLETS LEVEE 30 TO LEVEE 67A NR . . . . .									RRRRRRRRRRRRRRRRRRRRRR				135
TAMIAMI CANAL NR CORAL GABLES FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				136
SNAPPER CREEK CANAL AT MILLER DRIVE NR SOUTH MI . . . . .									RRRRRRRRRRRRRRRRRRRRRR				137
SNAPPER CREEK CANAL AT S22 NR SOUTH MIAMI FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				138
CARD SOUND:													
CANAL 111 AT S-18C NR FLORIDA CITY FLA . . . . .										RRRRRRRRRRRRRRRRRRRRRR			139
LITTLE MADEIRA BAY:													
TAYLOR SLOUGH NR HOMESTEAD FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				140
BARRON RIVER CANAL NR EVERGLADES FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				141
BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA													
ROOKERY BAY:													
HENDERSON CREEK CANAL NR NAPLES FLA . . . . .										RRRRRRRRRRRRRRRRRRRRRR			142
NAPLES BAY:													
GORDEN RIVER:													
GOLDEN GATE CANAL NR NAPLES FLA . . . . .										RRRRRRRRRRRRRRRRRRRRRR			143
COCOMATCHEE RIVER CANAL NR NAPLES PARK FLA . . . . .										RRRRRRRRRRRRRRRRRRRRRR			144
FISH TRAP BAY:													
IMPERIAL RIVER NR BONITA SPRINGS FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				145
CALOOSAHATCHEE RIVER													
SAN CARLO BAY:													
CALOOSAHATCHEE CANAL AT MOORE HAVEN FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				146
CALOOSAHATCHEE RIVER AT S-79 NR OLGA FLA . . . . .										XXXXXXXXXXXXXXXXXXXXXX			147
ORANGE RIVER NR FT MYERS FLA . . . . .									XXXXXXXXXXXX				148
PEACE RIVER BASIN													
CHARLOTTE HARBOR:													
PEACE CREEK DRAINAGE CANAL NR DUNDEE FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				150
PEACE CREEK DRAINAGE CANAL NR ALTURAS FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				151
LAKE LULU OUTLET AT ELOISE FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				152
SADOLE CREEK AT S P11 NR BARTOW FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				153
PEACE RIVER AT BARTOW FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				154
PEACE RIVER AT ZOLFO SPRINGS FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				155
CHARLEY CREEK:													
LITTLE CHARLEY BOWLEGS CREEK NR SEBRING FLA . . . . .									RRRRRRRRRRRRRRRRRRRRRR				156
CHARLIE CREEK NR GARDNER FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				157
PEACE RIVER AT ARCADIA FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				158
JOSHUA CREEK AT NOCATEE FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				159
HORSE CREEK NR ARCADIA FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				160
SHELL CREEK NR PUNTA GORDA FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				161
MYAKKA RIVER BASIN													
CHARLOTTE HARBOR:													
MYAKKA RIVER NR SARASOTA FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				162
MANATEE RIVER BASIN													
TAMPA BAY:													
MANATEE RIVER NR MYAKKA HEAD FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				164
MANATEE RIVER NR BRADENTON FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				165
LITTLE MANATEE RIVER BASIN													
TAMPA BAY:													
LITTLE MANATEE RIVER NR FORT LONESOME FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				166
LITTLE MANATEE RIVER NR WIMAUMA FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				167
ALAFIA RIVER BASIN													
HILLSBOROUGH BAY:													
NORTH PRONG ALAFIA RIVER AT KEYSVILLE FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				168
SOUTH PRONG ALAFIA RIVER NR LITHIA FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				169
LITTLE ALAFIA RIVER NR HOPEWELL FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				170
ALAFIA RIVER AT LITHIA FLA . . . . .									XXXXXXXXXXXXXXXXXXXXXX				171

**Table 1.--Streamflow records for selected stations. (Continued)**

[illegible]

**Table 1.-- Streamflow records for selected stations. (Continued)**

GAGING STATION NAME AND LOCATION	PERIOD OF RECORD												PAGE
	1 9 0	1 9 5	1 9 0	1 9 3	1 9 4	1 9 5	1 9 0	1 9 5	1 9 6	1 9 0	1 9 5	1 9 0	
FENHOLLOWAY RIVER AT FOLEY FLA. . . . .									XXXXXXXXXXXXXXXXXXXXXXXXXXXX				224
ECONFINA RIVER NR PERRY FLA. . . . .									XXXXXXXXXXXXXXXXXXXXXXXXXXXX				225
AUCILLA RIVER BASIN													
AUCILLA RIVER AT LAMONT FLA. . . . .									XXXXXXXXXXXXXXXXXXXXXXXXXXXX				226
ST MARKS AND WAKULLA RIVERS AND COASTAL AREA BETWEEN AUCILLA AND OCHLOCKONEE RIVERS													
ST MARKS RIVER NR NEWPORT FLA. . . . .									XXXXXXXXXXXXXXXXXXXX			XX	228
OCHLOCKONEE RIVER BASIN													
OCHLOCKONEE BAY:													
SOPCHOPPY RIVER NR SOPCHOPPY FLA. . . . .												XXXXXXXXXXXXXXXXXXXX	229
OCHLOCKONEE RIVER NR HAVANA FLA. . . . .				XXXXXXXXXXXXXXXXXXXXXXXXXXXX								XXXXXXXXXXXXXXXXXXXX	230
LITTLE RIVER NR QUINCY FLA. . . . .									XXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	231
ROCKY COMFORT CREEK NR QUINCY FLA. . . . .												XXXXXXXXXXXXXXXXXXXX	232
OCHLOCKONEE RIVER NR BLOXHAM FLA. . . . .				XXXXXXXXXXXXXXXXXXXXXXXXXXXX								XXXXXXXXXXXXXXXXXXXX	233
TELOGIA CREEK NR BRISTOL FLA. . . . .									XXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	234
NEW RIVER NR WILMA FLA. . . . .												XXXXXXXXXXXXXXXXXXXX	235
APALACHICOLA RIVER													
APALACHICOLA BAY:													
APALACHICOLA RIVER AT CHATTAHOOCHEE FLA. . . . .									XXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	237
APALACHICOLA RIVER NR BLOUNTSTOWN FLA. . . . .				XXXXXXXXXXXXXXXXXXXXXXXXXXXX								XXXXXXXXXXXXXXXXXXXX	238
CHIPOLA RIVER BASIN													
APALACHICOLA BAY:													
APALACHICOLA RIVER													
CHIPOLA RIVER NR ALTHA FLA. . . . .	XXXXXX	XX							XXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	239
COASTAL AREA BETWEEN OCHLOCKONEE AND APALACHICOLA RIVERS													
ECONFINA CREEK NR FOUNTAIN FLA. . . . .												XXXXXXXXXXXXXXXXXXXX	241
ST. ANDREW BAY, INFLOW AND COASTAL AREA													
ST ANDREW BAY (NORTH BAY):													
ECONFINA CREEK NR BENNETT FLA. . . . .									XXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	242
CHOCTAWHATCHEE BAY, INFLOW AND COASTAL AREA													
CHOCTAWHATCHEE BAY:													
CHOCTAWHATCHEE RIVER AT CARYVILLE FLA. . . . .									XXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	243
HOLMES CREEK AT VERNON FLA. . . . .												XXXXXXXXXXXXXXXXXXXX	244
CHOCTAWHATCHEE RIVER NR BRUCE FLA. . . . .									XXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	245
CHOCTAWHATCHEE BAY:													
ALAQUA CREEK NR DE FUNIAK SPRINGS FLA. . . . .									XXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	246
TURKEY CREEK:													
JUNIPER CREEK AT STATE HIGHWAY 85 NR NICEVILLE. . . . .												XXXXXXXXXXXXXXXXXXXX	247
YELLOW RIVER BASIN													
PENSACOLA BAY (EAST BAY):													
YELLOW RIVER AT MILLIGAN FLA. . . . .									XXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	249
BAGGETT CREEK NR MILLIGAN FLA. . . . .												XXXXXXXXXXXXXXXXXXXX	250
SHOAL RIVER NR MOSSY HEAD FLA. . . . .									XXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	251
SHOAL RIVER NR CRESTVIEW FLA. . . . .									XXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	252
BLACKWATER RIVER BASIN													
PENSACOLA BAY (BLACKWATER BAY):													
BLACKWATER RIVER NR BAKER FLA. . . . .									XXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	253
BIG COLDWATER CREEK NR MILTON FLA. . . . .									XXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	254
POND CREEK NR MILTON FLA. . . . .												XXXXXXXXXXXXXXXXXXXX	255
ESCAMBIA RIVER													
PENSACOLA BAY (ESCAMBIA BAY):													
ESCAMBIA RIVER NR CENTURY FLA. . . . .									XXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	256
PINE BARREN CREEK NR BARTH FLA. . . . .									XXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	257
PERDIDO RIVER BASIN													
PERDIDO BAY:													
BRUSHY CREEK NR WALNUT HILL FLA. . . . .												XXXXXXXXXXXXXXXXXXXX	258
PERDIDO RIVER AT BARRINEAU PARK FLA. . . . .									XXXXXXXXXXXXXXXXXXXX			XXXXXXXXXXXXXXXXXXXX	259

and abbreviated scientific notation. The notations and the equivalent flow in cubic feet per second, currently abbreviated as ft<sup>3</sup>/s in most U.S. Geological Survey literature, are as follows:

Conversion of hydrograph notation to units of discharge  
[Units of discharge in cubic feet per second]

<u>Hydrograph notation</u>		<u>Units of discharge</u>
10 <sup>-2</sup>	=	0.01
10 <sup>-1</sup>	=	0.10
10 <sup>0</sup>	=	1.00
10 <sup>1</sup>	=	10.0
10 <sup>2</sup>	=	100
10 <sup>3</sup>	=	1,000
10 <sup>4</sup>	=	10,000

It is characteristic of the log scale used on most of the hydrographs that the zero point is approached but never reached. Streams and canals that have zero flow for long periods have the plot truncated at a point somewhat above the true zero.

### Flow Duration

The duration table of daily values statistically separates the daily mean discharge (flow) for the period of record into a maximum of 35 classes. The class limits can be generated by the computer program or selected by the user. When the class limits are generated by the computer program, they are computed from a relation between the lowest positive daily mean flow greater than 0.00 and the second highest daily mean flow value for the period of record. The class limits generated by the computer program range from 0.00 to the second highest value. The maximum flow of record is, therefore, excluded; and all flows lower than the lowest positive nonzero flows, including negative flows, are assigned to class zero which is 0.00 flow. Some 25 stations in this report have significant reverse flow. The class limits for these stations were selected by the author to indicate the extent of these negative flows. A 0.00 point was always included in the limits.

The table gives the percentage of time (PERCT) for the period of record in which the streamflow equaled or exceeded a particular discharge (VALUE). This table is generally used for preparation of a flow-duration curve for the period of record. The table also gives the number of days (TOTAL) in the period of record that discharge equaled or exceeded the class limit of a particular class (CLASS) but was less than the class limit of the next higher class, and the accumulated number of days (ACCUM) in the period of record that discharge equaled or exceeded the class limit of each particular class.

The duration tables in this report represent the entire period of record. Generally, the longer the period used, the more valid the analysis; however, some streams have been substantially altered over time

and it might be better to use a period that represents only the unaltered flow pattern (as in areal studies) or only current conditions. As an example, the Kissimmee River underwent extensive alteration at the station at S-65E near Okeechobee. The duration tables for the years 1929-62 and 1965-80 indicate these changes (table 2):

Table 2.--Duration tables of daily values for Kissimmee River at  
S-65E near Okeechobee, Florida

1929-62					1965-79				
Class	Value	Total	Accum	Percent	Class	Value	Total	Accum	Percent
0	0.0	0	12,418	100.00	0	0.00	68	5,478	100.00
1	25.0	2	12,418	100.00	1	0.24	17	5,410	98.76
2	30.0	3	12,416	99.98	2	0.34	8	5,393	98.45
3	37.0	2	12,413	99.96	3	0.48	31	5,385	98.30
4	45.0	7	12,411	99.94	4	0.68	45	5,354	97.74
5	55.0	13	12,404	99.89	5	0.96	49	5,309	96.91
6	67.0	38	12,391	99.78	6	1.4	57	5,260	96.02
7	82.0	44	12,353	99.48	7	1.9	63	5,203	94.98
8	100.0	47	12,309	99.12	8	2.7	67	5,140	93.83
9	120.0	61	12,262	98.74	9	3.8	33	5,073	92.61
10	150.0	41	12,201	98.25	10	5.4	27	5,040	92.00
11	180.0	55	12,160	97.92	11	7.6	12	5,013	91.51
12	220.0	70	12,105	97.48	12	11.0	5	5,001	91.29
13	270.0	130	12,035	96.92	13	15.0	9	4,996	91.20
14	330.0	233	11,905	95.87	14	22.0	21	4,987	91.04
15	400.0	338	11,672	93.99	15	31.0	62	4,966	90.65
16	490.0	386	11,334	91.27	16	43.0	124	4,904	89.52
17	600.0	502	10,948	88.16	17	61.0	114	4,780	87.26
18	730.0	670	10,446	84.12	18	86.0	318	4,666	85.18
19	890.0	941	9,776	78.72	19	120.0	229	4,348	79.37
20	1,100.0	1,087	8,835	71.15	20	170.0	329	4,119	75.19
21	1,300.0	1,602	7,748	62.39	21	240.0	352	3,790	69.19
22	1,600.0	1,639	6,146	49.49	22	340.0	316	3,438	62.76
23	2,000.0	992	4,507	36.29	23	490.0	380	3,122	56.99
24	2,400.0	918	3,515	28.31	24	690.0	385	2,742	50.05
25	2,900.0	771	2,597	20.91	25	970.0	400	2,357	43.03
26	3,600.0	453	1,826	14.70	26	1,400.0	473	1,957	35.72
27	4,300.0	419	1,373	11.06	27	1,900.0	593	1,484	27.09
28	5,300.0	365	954	7.68	28	2,700.0	451	891	16.27
29	6,500.0	239	589	4.74	29	3,900.0	210	440	8.03
30	7,900.0	174	350	2.82	30	5,500.0	131	230	4.20
31	9,600.0	89	176	1.42	31	7,800.0	79	99	1.81
32	12,000.0	50	87	0.70	32	11,000.0	15	20	0.37
33	14,000.0	31	37	0.30	33	15,000.0	4	5	0.09
34	17,000.0	6	6	0.05	34	22,000.0	1	1	0.02

Most U.S. Geological Survey offices are able to generate the tables for specific sites and specific periods of record.

## Low Flows

Following the duration table is a summary of minimum average flows for a 7-day period, by month, that recurs once, on the average, during a 10-year interval. Information on annual low-flow averages for many of the streams in this report are contained in "Low-Flow Frequency Data for Selected Stream-Gaging Stations in Florida" (Hughes, 1981). When flows are extensively controlled or altered, no reasonable monthly or annual 7-day, 10-year low flows can be determined, and that is noted in "Remarks." Data on low-flow frequency are commonly used in determining waste load allocations and water use for industrial, municipal, and agricultural purposes.

The hydrographs and flow-duration tables are computed by water year (October 1 to September 30). The 1979 water year, for example, began on October 1, 1978, and ended on September 30, 1979.

The duration table, however, only lists the number of days that flow equaled or exceeded a class value without reference to time. The hydrograph indicates variation of flow over time but does not indicate statistical data. Together, the duration table or curve and the hydrograph present a more complete picture of flow for a site.

The seasonable distribution of rainfall for peninsular Florida differs appreciably from that for the northern part of the State and for adjacent states. Because of the difference in the pattern of rainfall, streams that originate in Alabama and Georgia and flow south into Florida tend to have high flows in the spring months and low flows in the fall (see Ochlockonee River near Havana, p. 230; or Suwannee River at Branford, p. 213); and streams in peninsular Florida tend to have high flows in the fall (St. Johns River near Christmas, p. 26; or Fisheating Creek at Palmdale, p. 65). Hughes (1981), in computing annual low-flow frequencies for Florida streams, used a climatic year ending March 31 for north Florida streams and a climatic year ending June 30 for south Florida streams.

### TECHNIQUE FOR CONSTRUCTING FLOW-DURATION CURVES

The flow-duration curve is a cumulative frequency curve that shows the percentage of time that specified discharges were equaled or exceeded for a given period. The curve is a means of showing the flow characteristics of a stream throughout the range of discharge. A flow-duration curve (Searcy, 1959) can be constructed from the flow-duration summary by plotting the discharges (VALUE) as ordinates and the percentages (PERCT) as abscissas, usually on a log-probability graph. Smooth curves are usually drawn to fit the plotted points, but straight lines could be used to connect the points to avoid introducing interpretations.

The shape of a duration curve reflects the topographic, hydrologic, and geologic characteristics of the drainage area above the gaging site. Searcy states that a curve with a steep slope throughout, such as that for Peace River at Arcadia, Fla., as shown in figure 1, denotes a stream whose flow is highly variable and largely from direct runoff. A curve with a flat slope, such as that for Econfinia Creek near Bennett, Fla., also shown in figure 1, indicates that the flow is relatively stable and often derived from surface- or ground-water storage (Searcy, 1959).

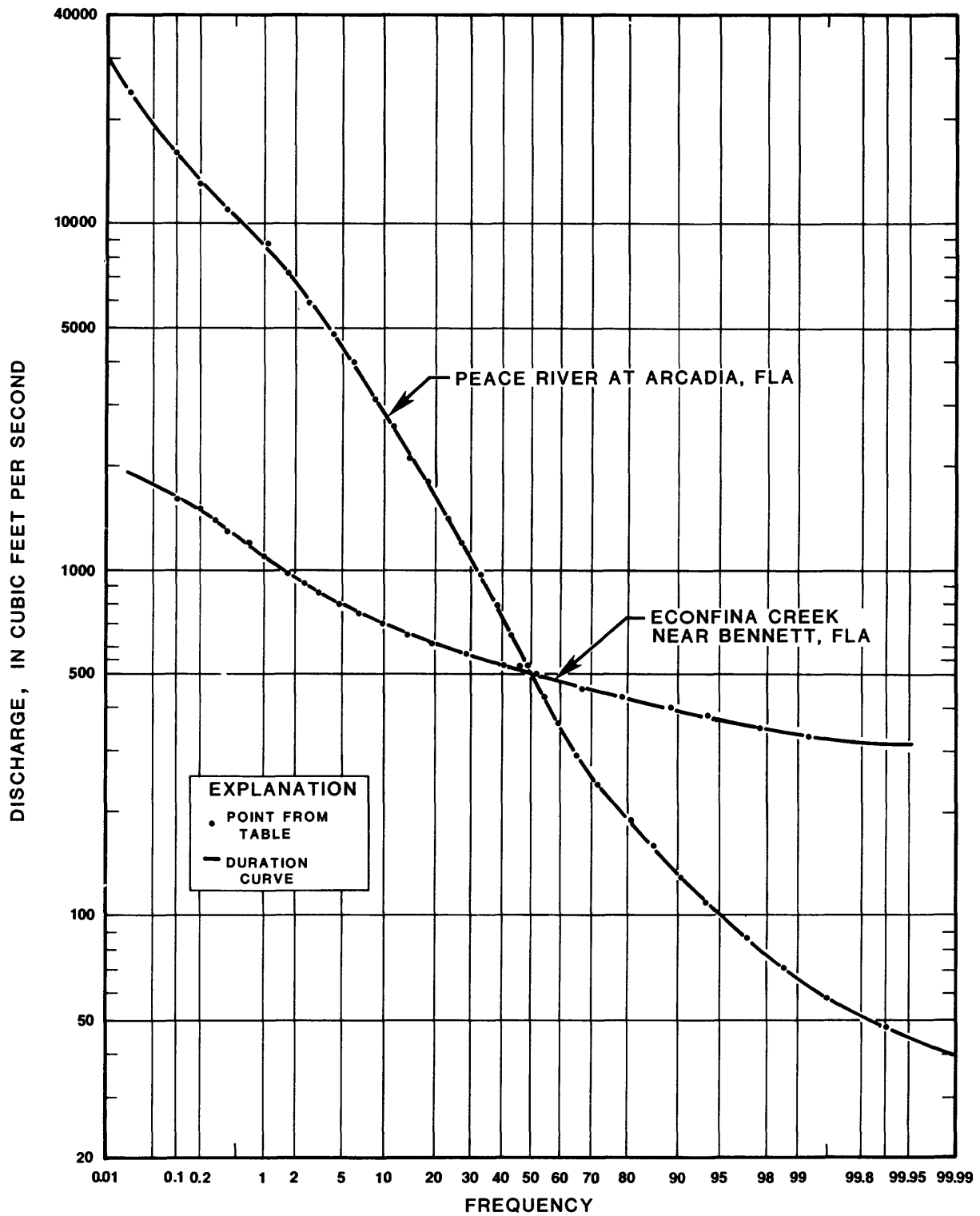


Figure 1.— Duration curves for representative streams in Florida.

The duration curve for Peace River at Arcadia (fig. 1) shows that a daily discharge of 100 cubic feet per second was exceeded or equaled 95 percent of the days and 4,400 cubic feet per second was exceeded or equaled 5 percent of the days for the period of record (1931-79).

The duration curve for Econfinia Creek near Bennett (fig. 1) shows that a daily discharge of 370 cubic feet per second was exceeded or equaled 95 percent of the days and 790 cubic feet per second was exceeded or equaled 5 percent of the days for the period of record (1935-79). The duration curve also shows that the median discharge (when the daily discharge was equaled or exceeded 50 percent of the days) was 500 cubic feet per second for both sites.

#### REFERENCES

- Conover, C. S., and Leach, S. D., 1975, River basin and hydrologic unit map of Florida: Florida Bureau of Geology Map Series 72.
- Heath, R. C., and Wimberly, E. T., 1971, Selected flow characteristics of Florida streams and canals: Florida Bureau of Geology Information Circular 69, 595 p.
- Hughes, G. H., 1981, Low-flow frequency data for selected stream-gaging stations in Florida: U.S. Geological Survey Water-Resources Investigations Open-File Report 81-69, 110 p.
- Searcy, J. K., 1959, Flow duration curves: U.S. Geological Survey Water-Supply Paper 1542-A, 33 p.

## STREAMFLOW STATIONS

Description of data

Hydrograph

Duration table summary

Minimum 7-day, 10-year flow

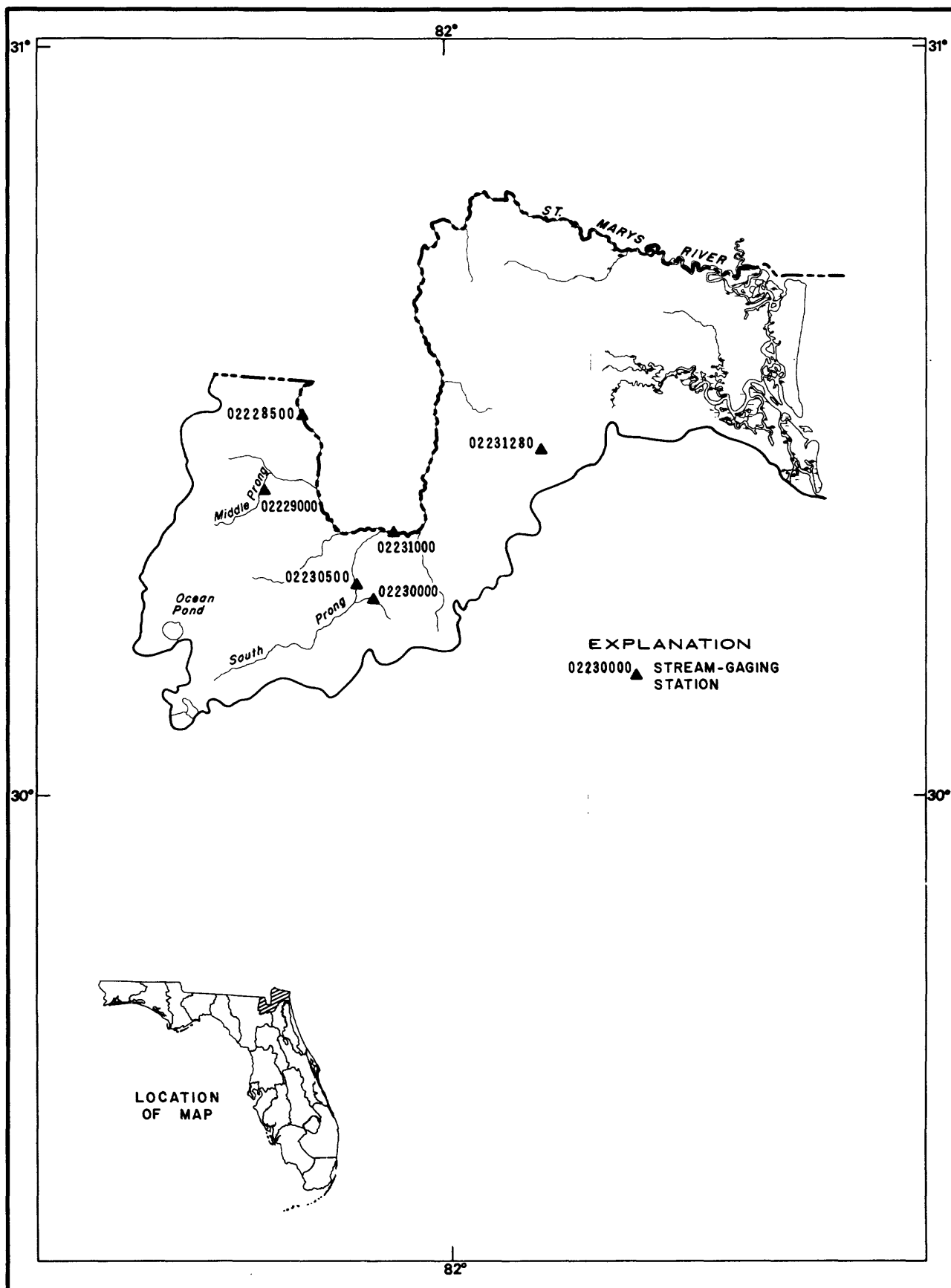


Figure 2.-- Stations in the St. Marys River basin and the coastal area between the St. Marys and St. Johns Rivers.

# ALTAMAHA-ST. MARYS RIVERS

## ST. MARYS RIVER BASIN

02228500 NORTH PRONG ST. MARYS RIVER AT MONIAC, GA

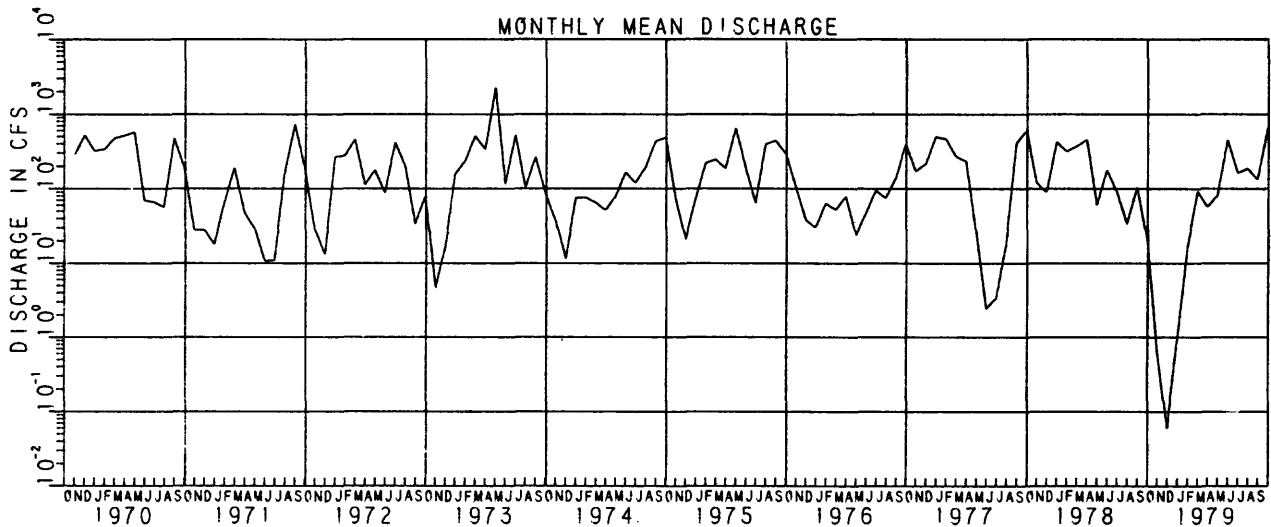
LOCATION.--Lat 30°31'03", long 82°13'50", in NW¼ sec.8, T.1 N., R.21 E., Baker County, Fla., Hydrologic Unit 03070204, at bridge on State Highways 2 and 94, 0.2 mi (0.3 km) upstream from Georgia Southern and Florida Railway bridge, 0.4 mi (0.6 km) west of Moniac, 1.0 mi (1.6 km) downstream from Moccasin Creek, and 122 mi (196 km) upstream from mouth of St. Marys River.

DRAINAGE AREA.--160 mi<sup>2</sup> (410 km<sup>2</sup>), approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--January 1921 to December 1923 (published as St. Marys River at Moniac), January 1927 to June 1930, July 1932 to June 1934, October 1950 to September 1979.

AVERAGE DISCHARGE.--34 years (water years 1922-23, 1928-29, 1933, 1951-79), 165 ft<sup>3</sup>/s (4.673 m<sup>3</sup>/s), 14.00 in/yr (356 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft<sup>3</sup>/s (329 m<sup>3</sup>/s) Apr. 5, 1973; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	350	12418	100.00	12	1.5	256	11096	89.35	24	220.0	991	2695	21.70
1	0.01	2	12068	97.18	13	2.3	305	10840	87.29	25	340.0	816	1704	13.72
2	0.02	41	12066	97.17	14	3.5	324	10535	84.84	26	520.0	438	888	7.15
3	0.04	8	12025	96.84	15	5.2	355	10211	82.23	27	780.0	259	450	3.62
4	0.05	17	12017	96.77	16	7.9	399	9856	79.37	28	1200.0	116	191	1.54
5	0.08	137	12000	96.63	17	12.0	523	9457	76.16	29	1800.0	45	75	0.60
6	0.12	10	11863	95.53	18	18.0	843	8934	71.94	30	2700.0	19	30	0.24
7	0.19	67	11853	95.45	19	28.0	1145	8091	65.16	31	4100.0	7	11	0.09
8	0.28	178	11766	94.75	20	42.0	1072	6946	55.93	32	6300.0	3	4	0.03
9	0.43	144	11588	93.32	21	64.0	1177	5874	47.30	33	9600.0	1	1	0.01
10	0.65	162	11444	92.16	22	97.0	1114	4697	37.82					
11	0.99	186	11282	90.85	23	150.0	888	3583	28.45					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1.7	4.1	5.4	1.3	0.00	0.00	0.19	1.4	1.0	0.30	0.27	0.98

# ALTAMAHA-ST. MARYS RIVERS

## ST. MARYS RIVER BASIN

02229000 MIDDLE PRONG ST. MARYS RIVER AT TAYLOR, FL

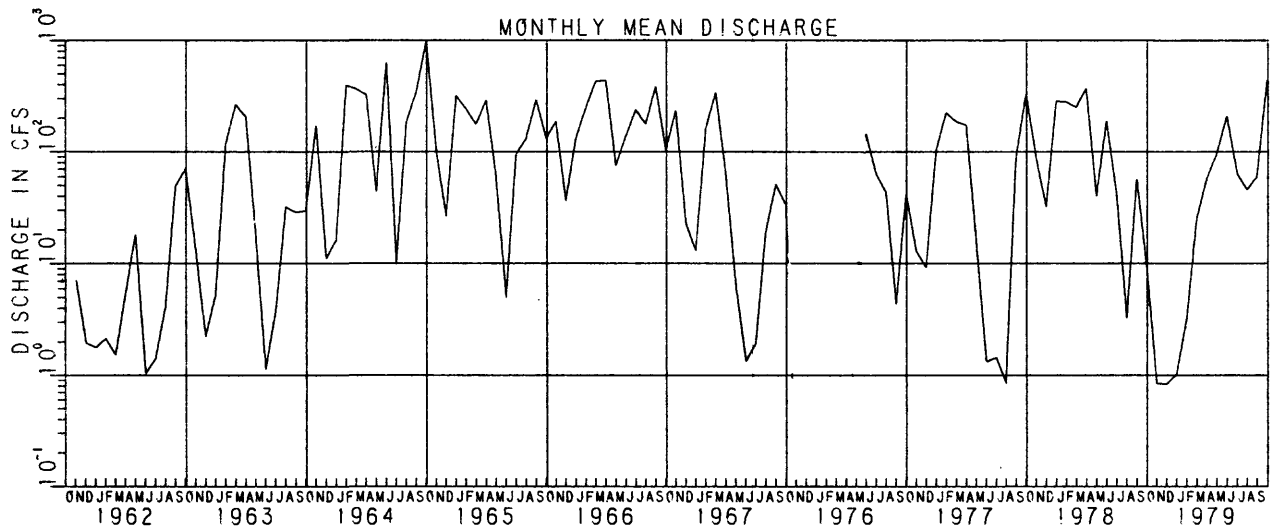
LOCATION.--Lat 30°26'10", long 82°17'15", in SW¼ sec.2, T.1 S., R.20 E., Baker County, Hydrologic Unit 03070204, at bridge on State Highway 125, 0.5 mi (0.8 km) southeast of Taylor, 0.9 mi (1.5 km) upstream from Little River, and 7.4 mi (11.9 km) upstream from mouth.

DRAINAGE AREA.--125 mi<sup>2</sup> (324 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--September 1955 to September 1967; April 1976 to September 1979.

AVERAGE DISCHARGE.--15 years (water years 1955-67, 1977-79), 110 ft<sup>3</sup>/s (3.115 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,920 ft<sup>3</sup>/s (111 m<sup>3</sup>/s) Sept. 12, 1964; minimum discharge, 0.44 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) July 27, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5478	100.0	12	4.4	165	4025	73.5	24	190.0	290	971	17.7
1	0.1	16	5478	100.0	13	6.0	149	3860	70.5	25	260.0	294	681	12.4
2	0.2	12	5462	99.7	14	8.2	128	3711	67.7	26	360.0	147	387	7.0
3	0.3	5	5450	99.5	15	11.0	190	3583	65.4	27	490.0	111	240	4.3
4	0.4	37	5445	99.4	16	15.0	270	3393	61.9	28	670.0	73	129	2.3
5	0.5	73	5408	98.7	17	21.0	277	3123	57.0	29	920.0	37	56	1.0
6	0.7	175	5335	97.4	18	29.0	305	2846	52.0	30	1300.0	8	19	.3
7	0.9	204	5160	94.2	19	40.0	268	2541	46.4	31	1700.0	4	11	.2
8	1.2	313	4956	90.5	20	54.0	292	2273	41.5	32	2400.0	6	7	.1
9	1.7	267	4643	84.8	21	74.0	322	1981	36.2	33	3300.0	1	1	
10	2.3	210	4376	79.9	22	100.0	350	1659	30.3					
11	3.2	141	4166	76.0	23	140.0	338	1309	23.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1.3	2.2	3.9	1.2	0.53	0.47	0.98	1.3	0.81	0.72	1.0	0.84

# ALTAMAHA - ST. MARYS RIVERS

## ST. MARYS RIVER BASIN

02230000 TURKEY CREEK AT MACCLENNEY, FL

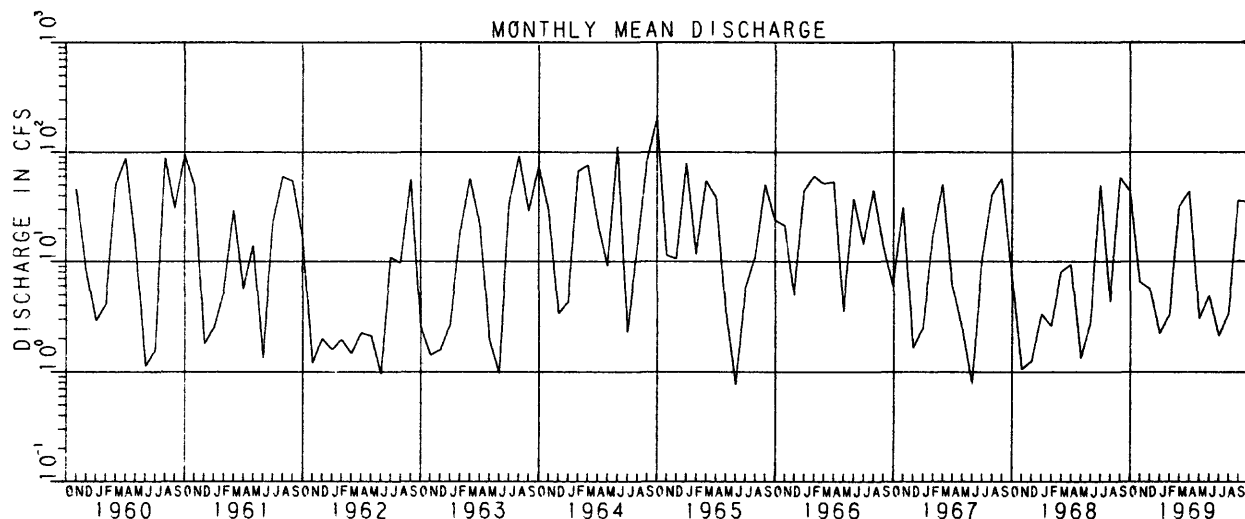
LOCATION.--Lat30°16'08", long 82°07'21", in NE¼ sec.5, T.3 S., R.22E., Baker County, Hydrologic Unit 03070204 at bridge on State Highway 121, 0.9 mile (1.4 km) south of Macclenny and 1.8 miles (2.9 km) upstream from mouth.

DRAINAGE AREA.--20.9 mi<sup>2</sup> (54.1 km<sup>2</sup>).

PERIOD OF RECORD.--September 1955 to September 1969.

AVERAGE DISCHARGE.--14 years, 26.2 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s), 17.02 in/yr (432 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft<sup>3</sup>/s (73.6 m<sup>3</sup>/s) May 2, 1964; minimum, 0.10 ft<sup>3</sup>/s (.002 m<sup>3</sup>/s) May 28, 1964.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5114	100.0	12	4.1	271	2758	53.9	24	120.0	82	258	5.0
1	0.1	1	5114	100.0	13	5.4	238	2487	48.6	25	160.0	71	176	3.4
2	0.2	10	5113	100.0	14	7.2	252	2249	44.0	26	220.0	41	105	2.0
3	0.3	23	5103	99.8	15	9.5	271	1997	39.0	27	290.0	29	64	1.2
4	0.4	76	5080	99.3	16	13.0	259	1726	33.8	28	390.0	15	35	.6
5	0.6	81	5004	97.8	17	17.0	232	1467	28.7	29	510.0	8	20	.3
6	0.7	267	4923	96.3	18	22.0	276	1235	24.1	30	680.0	7	12	.2
7	1.0	311	4656	91.0	19	30.0	248	959	18.8	31	910.0	3	5	
8	1.3	432	4345	85.0	20	40.0	172	711	13.9	32	1200.0	2	2	
9	1.7	472	3913	76.5	21	53.0	97	539	10.5					
10	2.3	360	3441	67.3	22	70.0	90	442	8.6					
11	3.0	323	3081	60.2	23	93.0	94	352	6.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.97	1.5	1.1	0.46	0.37	0.46	0.64	1.1	1.1	0.87	1.0	1.0

ALTAMAHA - ST. MARYS RIVERS  
ST. MARYS RIVER BASIN AND COASTAL AREA

02230500 SOUTH PRONG ST. MARYS RIVER AT GLEN ST. MARY, FL

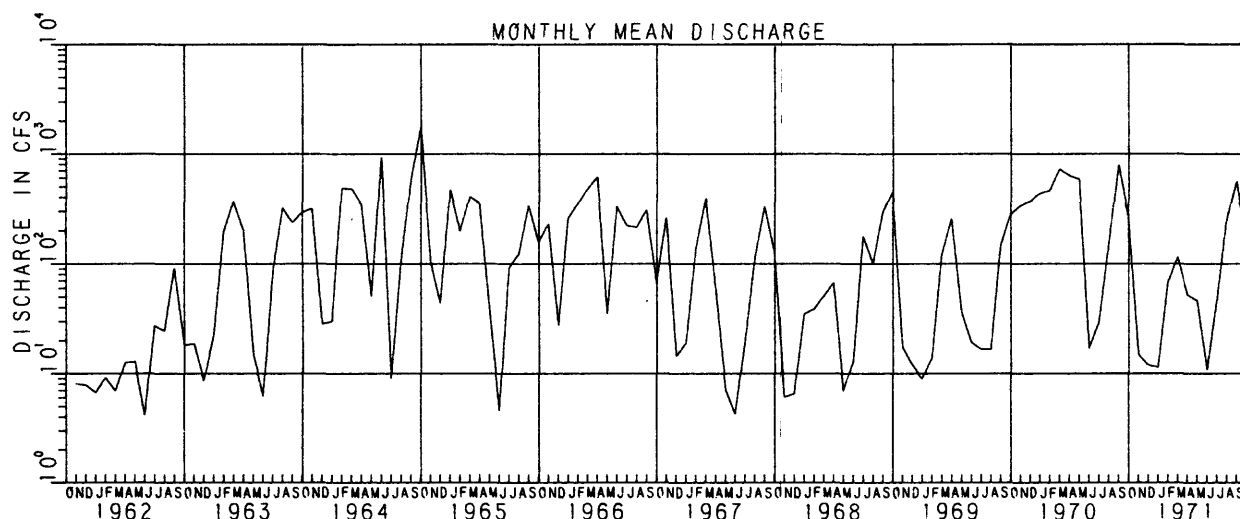
LOCATION.--Lat 30°16'43", long 82°08'40", in SW¼ sec.31, T.2 S., R.22 E., Baker County, Hydrologic Unit 03070204, 65 ft (20 m) upstream from bridge on U.S. Highway 90, 1.0 mile (1.6 km) east of Glen St. Mary, and 8.2 miles (18.2 km) upstream from mouth.

DRAINAGE AREA.--130 mi<sup>2</sup> (337 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--January 1950 to September 1971.

AVERAGE DISCHARGE.--21 years, 154 ft<sup>3</sup>/s (4.4 m<sup>3</sup>/s), 16.01 in/yr (40.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,510 ft<sup>3</sup>/s (213 m<sup>3</sup>/s) Sept. 12, 1964; minimum, 0.40 ft<sup>3</sup>/s (.01 m<sup>3</sup>/s) May 23, 1950.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	7670	100.0	12	16.0	443	5013	65.4	24	410.0	266	814	10.6
1	0.7	0	7670	100.0	13	21.0	403	4570	59.6	25	540.0	194	548	7.1
2	1.0	2	7670	100.0	14	27.0	516	4167	54.3	26	710.0	130	354	4.6
3	1.4	20	7668	100.0	15	36.0	465	3651	47.6	27	930.0	87	224	2.9
4	1.8	59	7648	99.7	16	47.0	378	3186	41.5	28	1200.0	56	137	1.7
5	2.4	266	7589	98.9	17	62.0	291	2808	36.6	29	1600.0	36	81	1.0
6	3.1	338	7323	95.5	18	81.0	316	2517	32.8	30	2100.0	25	45	.5
7	4.1	331	6985	91.1	19	110.0	248	2201	28.7	31	2800.0	6	20	.2
8	5.3	488	6654	86.8	20	140.0	302	1953	25.5	32	3600.0	8	14	.1
9	7.0	492	6166	80.4	21	180.0	300	1651	21.5	33	4700.0	4	6	
10	9.2	292	5674	74.0	22	240.0	248	1351	17.6	34	6200.0	2	2	
11	12.0	369	5382	70.2	23	310.0	289	1103	14.4					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
6.0	8.5	7.4	2.9	2.2	1.9	2.6	4.1	4.2	3.3	4.1	4.7

# ALTAMAHA-ST. MARYS RIVERS

## ST. MARYS RIVER BASIN

02231000 ST. MARYS RIVER NEAR MACCLENNY, FL

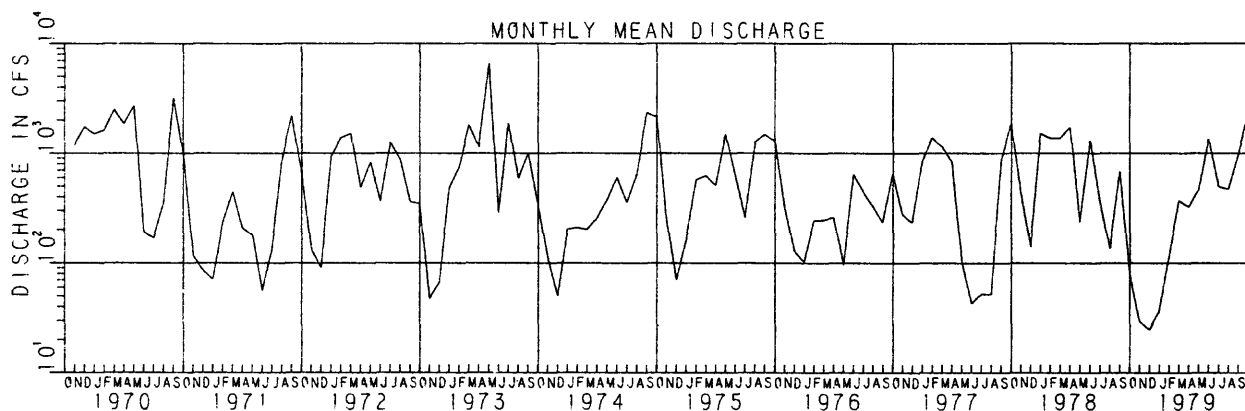
LOCATION.--Lat 30°21'31", long 82°04'54", in NW¼ sec.2, T.2 S., R.22 E., Baker County, Hydrologic Unit 03070204, 200 ft (60 m) downstream from site of former Stokes Bridge, 1 mi (2 km) downstream from confluence of North and South Prongs, 6 mi (10 km) northeast of Macclenny, and 100 mi (161 km) upstream from mouth.

DRAINAGE AREA.--700 mi<sup>2</sup> (1,800 km<sup>2</sup>), approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--October 1926 to September 1979.

AVERAGE DISCHARGE.--53 years, 681 ft<sup>3</sup>/s (19.29 m<sup>3</sup>/s), 13.21 in/yr (336 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft<sup>3</sup>/s (796 m<sup>3</sup>/s) Sept. 25, 1947; minimum discharge observed, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) May 22, 1932.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	19358	100.0	12	160.0	1077	11326	58.5	24	2600.0	309	984	5.0
1	12.0	14	19358	100.0	13	200.0	946	10249	52.9	25	3300.0	238	675	3.4
2	15.0	148	19344	99.9	14	250.0	991	9303	48.1	26	4200.0	178	437	2.2
3	19.0	396	19196	99.2	15	320.0	935	8312	42.9	27	5300.0	104	259	1.3
4	24.0	695	18800	97.1	16	400.0	1046	7377	38.1	28	6700.0	62	155	.8
5	31.0	899	18105	93.5	17	510.0	941	6331	32.7	29	8500.0	39	93	.4
6	39.0	961	17206	88.9	18	640.0	977	5390	27.8	30	11000.0	21	54	.2
7	49.0	974	16245	83.9	19	810.0	755	4413	22.8	31	14000.0	10	33	.1
8	62.0	890	15271	78.9	20	1000.0	878	3658	18.9	32	17000.0	11	23	.1
9	78.0	1037	14381	74.3	21	1300.0	676	2780	14.4	33	22000.0	9	12	
10	99.0	774	13344	68.9	22	1600.0	692	2104	10.9	34	27000.0	3	3	
11	120.0	1244	12570	64.9	23	2100.0	428	1412	7.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
40	47	47	33	20	20	32	67	51	30	28	29

# ALTAMAHA-ST. MARYS RIVERS

## COASTAL AREA BETWEEN ST. MARYS AND ST. JOHNS RIVERS

02231280 THOMAS CREEK NEAR CRAWFORD, FL

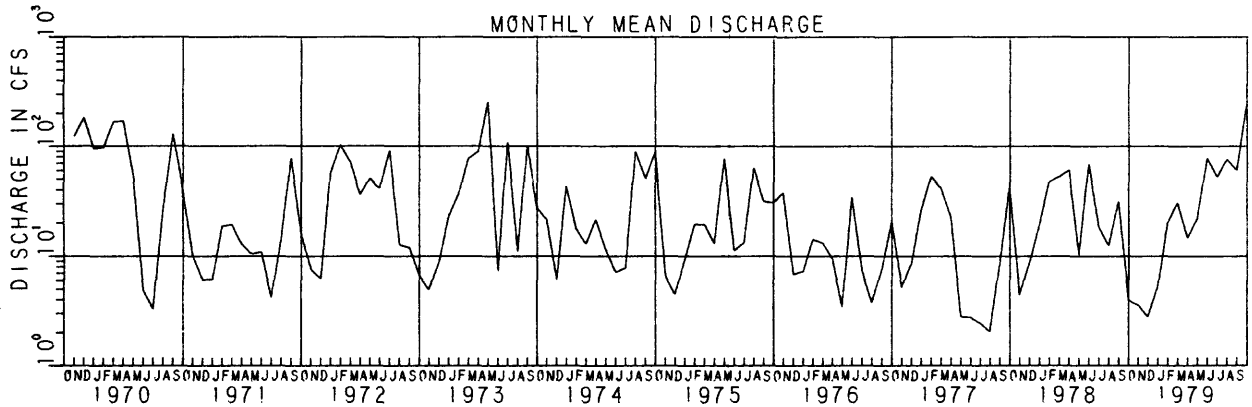
LOCATION.--Lat 30°27'39", long 81°49'57", in NW¼ sec.32, T.1 N., R.25 E., Duval County, Hydrologic Unit 03070205, at bridge on Acree Road, 4.4 mi (7.1 km) southeast of Crawford, 4.4 mi (7.1 km) northwest of Dinsmore, 7.1 mi (11.4 km) south of Callahan, and 24 mi (39 km) upstream from mouth.

DRAINAGE AREA.--29.9 mi<sup>2</sup> (77.4 km<sup>2</sup>).

PERIOD OF RECORD.--January 1965 to September 1979.

AVERAGE DISCHARGE.--14 years, 38.4 ft<sup>3</sup>/s (1.087 m<sup>3</sup>/s), 17.44 in/yr (443 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,020 ft<sup>3</sup>/s (114 m<sup>3</sup>/s) Apr. 4, 1973; minimum, 0.70 ft<sup>3</sup>/s (0.020 m<sup>3</sup>/s) May 22, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5113	100.0	12	11.0	469	2666	52.1	24	200.0	51	176	3.4
1	0.8	18	5113	100.0	13	15.0	318	2197	43.0	25	260.0	43	125	2.4
2	1.0	33	5095	99.6	14	19.0	284	1879	36.7	26	330.0	35	82	1.6
3	1.3	59	5062	99.0	15	24.0	244	1595	31.2	27	420.0	17	47	.9
4	1.7	56	5003	97.8	16	30.0	248	1351	26.4	28	530.0	10	30	.5
5	2.1	156	4947	96.8	17	38.0	197	1103	21.6	29	680.0	6	20	.3
6	2.7	306	4791	93.7	18	48.0	180	906	17.7	30	860.0	4	14	.2
7	3.5	344	4485	87.7	19	61.0	167	726	14.2	31	1100.0	4	10	.1
8	4.4	413	4141	81.0	20	78.0	134	559	10.9	32	1400.0	3	6	.1
9	5.6	407	3728	72.9	21	99.0	126	425	8.3	33	1800.0	1	3	
10	7.1	371	3321	65.0	22	130.0	61	299	5.8	34	2200.0	2	2	
11	9.0	284	2950	57.7	23	160.0	62	238	4.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
7.1	7.4	4.8	1.7	1.3	1.6	1.6	2.8	2.6	2.2	2.9	3.7

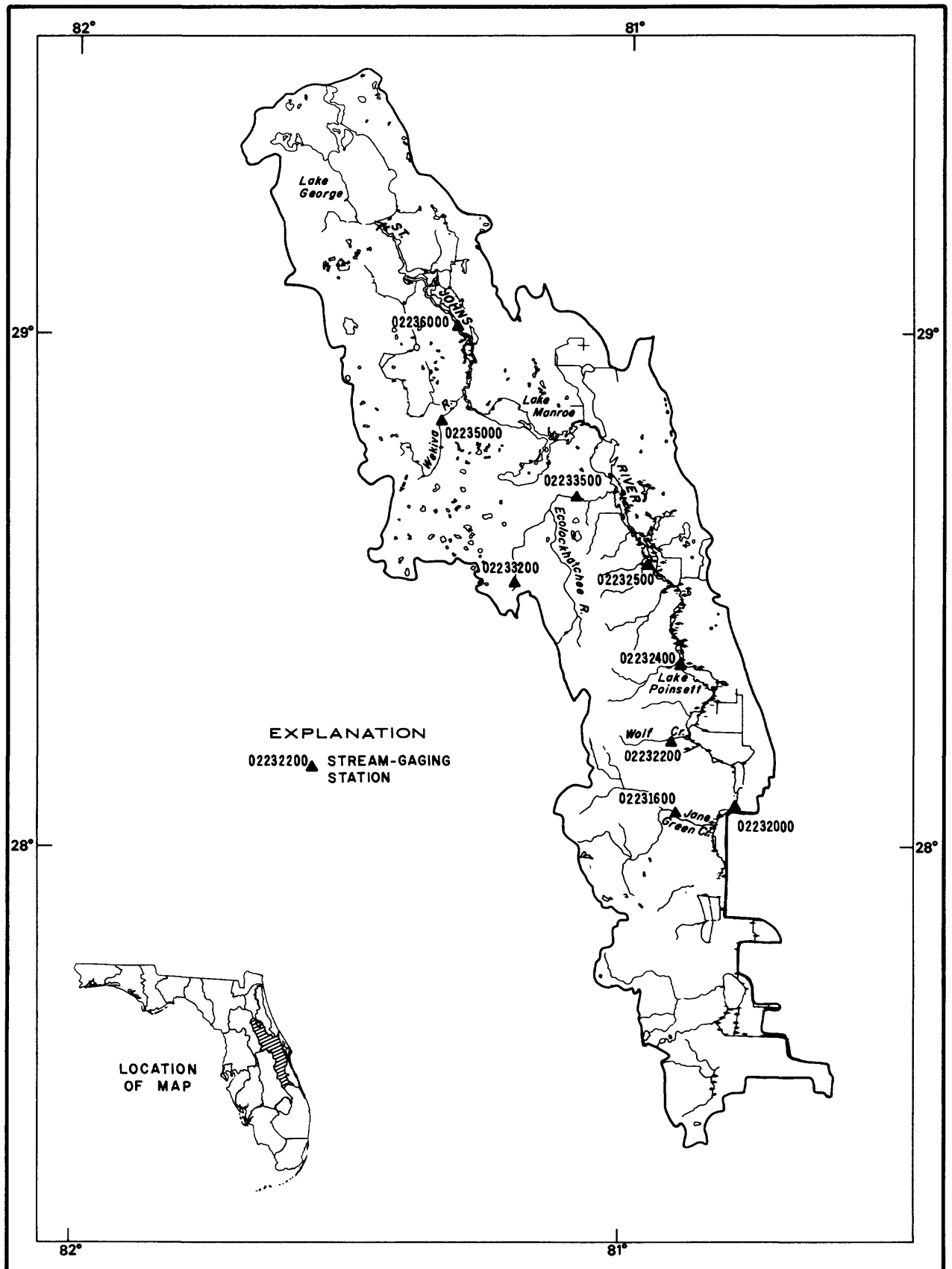


Figure 3.--Stations in the St. Johns River basin above the Oklawaha River.

# ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER

02231600 JANE GREEN CREEK NEAR DEER PARK, FL

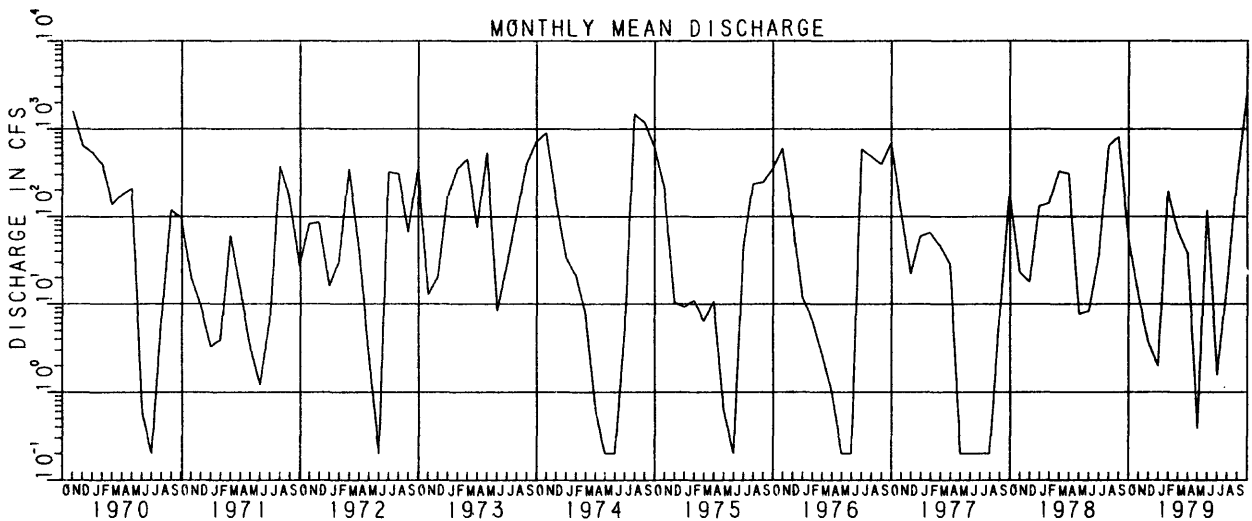
LOCATION.--Lat 28°04'27", long 80°53'18", in SE¼ sec.2, T.28 S., R.34 E., Osceola County, Hydrologic Unit 03080101, at bridge on county road, 1.2 mi (1.9 km) southeast of Deer Park, 2 mi (3 km) downstream from confluence of Crabgrass and Bull Creeks, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--248 mi<sup>2</sup> (642 km<sup>2</sup>).

PERIOD OF RECORD.--October 1953 to September 1979.

AVERAGE DISCHARGE.--25 years, 262 ft<sup>3</sup>/s (7.420 m<sup>3</sup>/s), 14.35 in/yr (364 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft<sup>3</sup>/s (521 m<sup>3</sup>/s) Oct. 17, 1956; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	1033	9496	100.00	12	1.7	150	8137	85.69	24	220.0	661	2593	27.31
1	0.02	2	8463	89.12	13	2.6	280	7987	84.11	25	330.0	544	1932	20.35
2	0.03	4	8461	89.10	14	3.9	316	7707	81.16	26	490.0	511	1388	14.62
3	0.05	4	8457	89.06	15	5.8	366	7391	77.83	27	740.0	377	877	9.24
4	0.07	3	8453	89.02	16	8.7	405	7025	73.98	28	1100.0	247	500	5.27
5	0.10	29	8450	88.98	17	13.0	497	6620	69.71	29	1700.0	131	253	2.66
6	0.15	26	8421	88.68	18	19.0	550	6123	64.48	30	2500.0	64	122	1.28
7	0.23	35	8395	88.41	19	29.0	574	5573	58.69	31	3700.0	45	58	0.61
8	0.34	52	8360	88.04	20	44.0	549	4999	52.64	32	5600.0	8	13	0.14
9	0.51	37	8308	87.49	21	65.0	602	4450	46.86	33	8400.0	4	5	0.05
10	0.76	54	8271	87.10	22	98.0	636	3848	40.52	34	13000.0	1	1	0.01
11	1.1	80	8217	86.53	23	150.0	619	3212	33.82					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3.0	2.4	0.00	0.00	0.00	0.00	0.09	4.2	20	6.0	2.6	1.5

# ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER

02232000 ST. JOHNS RIVER NEAR MELBOURNE, FL

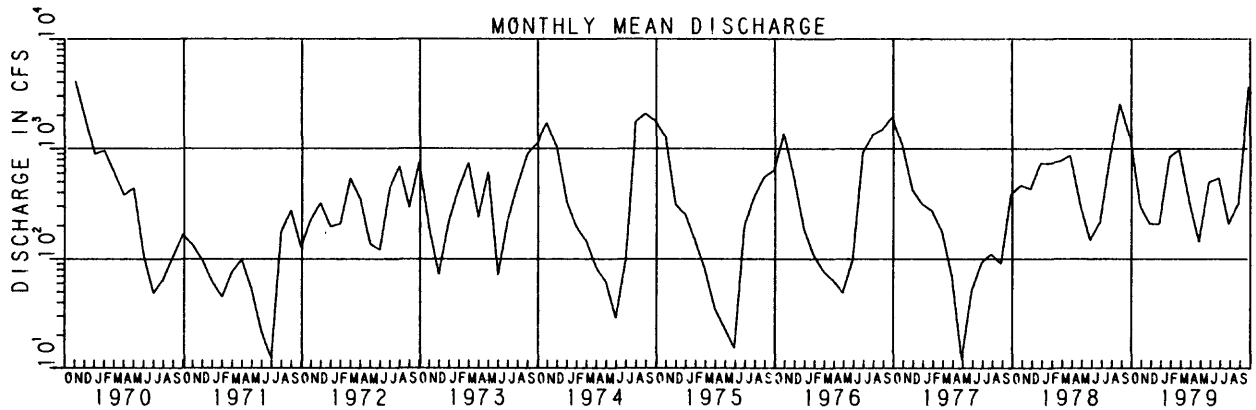
LOCATION.—lat 28°05'04", long 80°45'08", in NW¼ sec.5, T.28 S., R.36 E., Brevard County, Hydrologic Unit 03080101, at bridge on U.S. Highway 192, 1.1 mi (1.8 km) downstream from Sawgrass Lake, 1.7 mi (2.7 km) upstream from Lake Washington, 9.2 mi (14.8 km) west of Melbourne, and 262 mi (422 km) upstream from mouth.

DRAINAGE AREA.—968 mi<sup>2</sup> (2,507 km<sup>2</sup>).

PERIOD OF RECORD.—October 1939 to September 1979.

AVERAGE DISCHARGE.—40 years, 693 ft<sup>3</sup>/s (19.63 m<sup>3</sup>/s), 502,100 acre-ft/yr (619 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 18,000 ft<sup>3</sup>/s (510 m<sup>3</sup>/s) Oct. 18, 1956; maximum reverse flow measured, 109 ft<sup>3</sup>/s (3.09 m<sup>3</sup>/s) Sept. 18, 1950, affected by wind.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-100.0	0	14610	100.0	12	1.0	24	14294	97.8	24	360.0	1096	6681	45.7
1	-80.0	0	14610	100.0	13	3.0	7	14270	97.7	25	500.0	1608	5585	38.2
2	-65.0	4	14610	100.0	14	5.0	41	14263	97.6	26	800.0	1362	3977	27.2
3	-55.0	4	14606	100.0	15	7.0	188	14222	97.3	27	1200.0	1106	2615	17.8
4	-45.0	2	14602	99.9	16	14.0	314	14034	96.1	28	1700.0	753	1509	10.3
5	-35.0	10	14600	99.9	17	28.0	666	13720	93.9	29	2400.0	358	756	5.1
6	-25.0	13	14590	99.9	18	54.0	669	13054	89.3	30	3500.0	219	398	2.7
7	-15.0	9	14577	99.8	19	70.0	1076	12385	84.8	31	4900.0	119	179	1.2
8	-10.0	9	14568	99.7	20	100.0	1142	11309	77.4	32	7100.0	50	60	.4
9	-5.0	13	14559	99.7	21	140.0	1236	10167	69.6	33	10000.0	9	10	
10	0.0	250	14546	99.6	22	190.0	1209	8931	61.1	34	15000.0	1	1	
11	0.5	2	14296	97.9	23	260.0	1041	7722	52.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
50	30	10	8.7	2.3	10	32	81	132	121	92	67

# ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER

02232200 WOLF CREEK NEAR DEER PARK, FL

LOCATION.--Lat 28°12'46", long 80°54'40", in NW¼ sec.22, T.26 S., R.34 E., Ocala County, Hydrologic Unit 03080101, at bridge on State Highway 419, 2.9 mi (4.7 km) upstream from mouth and 8.5 mi (13.7 km) north of Deer Park.

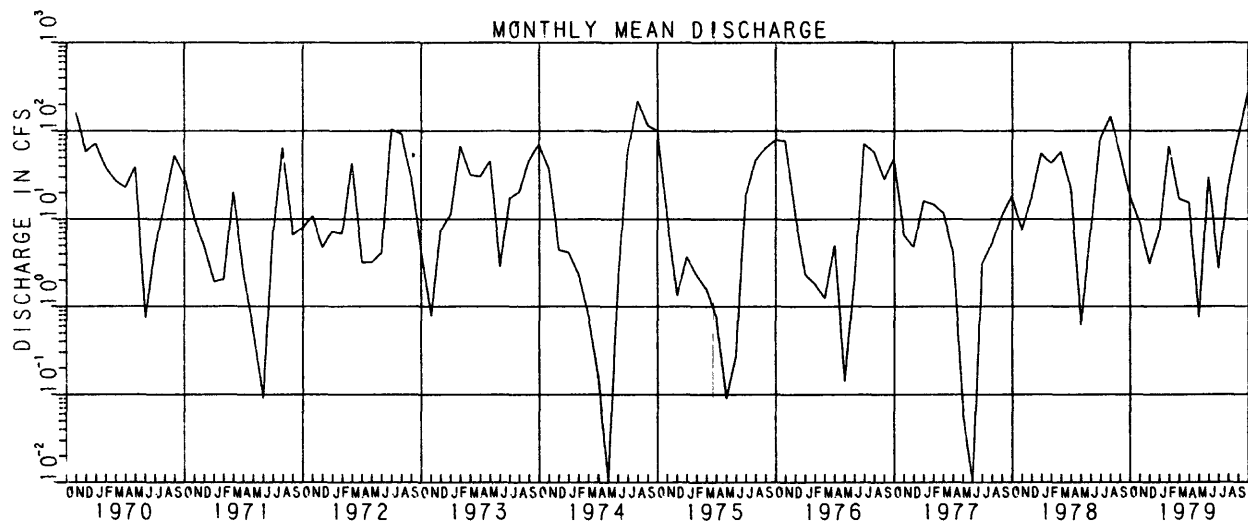
DRAINAGE AREA.--25.7 mi<sup>2</sup> (66.6 km<sup>2</sup>).

PERIOD OF RECORD.-- January 1956 to September 1979.

REMARKS.--Flow regulated to some extent since October 1970 by the construction of Jane Green Reservoir. Levees were constructed and an interconnecting canal was dug joining the watershed areas of Taylor Creek, Pennywash Creek, Cox Creek, and Wolf Creek. No low flow data listed below.

AVERAGE DISCHARGE.--22 years, 34.8 ft /s (0.986 m /s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,700 ft /s (218 m /s) Oct. 16, 1956; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	309	8400	100.00	12	0.99	466	7135	84.94	24	97.0	221	692	8.24
1	0.01	19	8091	96.32	13	1.5	582	6669	79.39	25	140.0	193	471	5.61
2	0.02	15	8072	96.10	14	2.1	738	6087	72.46	26	210.0	123	278	3.31
3	0.03	32	8057	95.92	15	3.1	650	5349	63.68	27	310.0	76	155	1.85
4	0.05	45	8025	95.54	16	4.6	625	4699	55.94	28	450.0	42	79	0.94
5	0.07	50	7980	95.00	17	6.7	572	4074	48.50	29	660.0	18	37	0.44
6	0.10	84	7930	94.40	18	9.8	469	3502	41.69	30	970.0	8	19	0.23
7	0.15	66	7846	93.40	19	14.0	598	3033	36.11	31	1400.0	7	11	0.13
8	0.21	82	7780	92.62	20	21.0	621	2435	28.99	32	2100.0	3	4	0.05
9	0.31	96	7698	91.64	21	31.0	439	1814	21.60	33	3100.0	1	1	0.01
10	0.46	173	7602	90.50	22	45.0	381	1375	16.37					
11	0.67	294	7429	88.44	23	66.0	302	994	11.83					

## ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER

02232400 ST. JOHNS RIVER NEAR COCOA, FL

LOCATION.--Lat 28°22'10", long 80°52'22", in SE¼ sec.25, T.24 S., R.34 E., Brevard County, Hydrologic Unit 03080101, at bridge on State Highway 520, 0.6 mi (1.0 km) upstream from Taylor Creek, 0.7 mi (1.1 km) downstream from outlet of Lake Poinsett, 8.8 mi (14.2 km) west of Cocoa, and 232 mi (373 km) upstream from mouth.

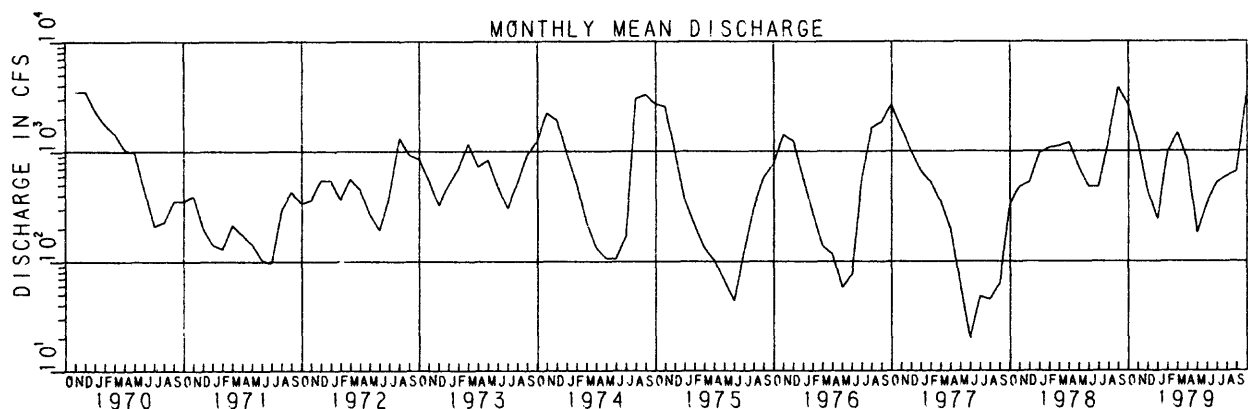
DRAINAGE AREA.--1,331 mi<sup>2</sup> (3,447 km<sup>2</sup>).

PERIOD OF RECORD.--October 1953 to September 1979.

REMARKS.-- Records include inflow from Taylor Creek.

AVERAGE DISCHARGE.--26 years, 1,034 ft<sup>3</sup>/s (29.28 m<sup>3</sup>/s), 10.55 in/yr (268 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 10,700 ft<sup>3</sup>/s (303 m<sup>3</sup>/s) Oct. 11, 1953; minimum daily discharge, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) May 9, 23, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	9496	100.0	12	120.0	414	8400	88.5	24	1400.0	586	2455	25.8
1	13.0	6	9496	100.0	13	150.0	248	7986	84.1	25	1700.0	658	1869	19.6
2	16.0	30	9490	99.9	14	180.0	338	7738	81.5	26	2100.0	480	1211	12.7
3	20.0	26	9460	99.6	15	220.0	360	7400	77.9	27	2600.0	212	731	7.6
4	24.0	44	9434	99.3	16	270.0	591	7040	74.1	28	3100.0	198	519	5.4
5	29.0	42	9390	98.9	17	340.0	466	6449	67.9	29	3800.0	131	321	3.3
6	36.0	60	9348	98.4	18	410.0	575	5983	63.0	30	4700.0	77	190	2.0
7	44.0	169	9288	97.8	19	500.0	675	5408	57.0	31	5800.0	50	113	1.1
8	54.0	166	9119	96.0	20	620.0	577	4733	49.8	32	7100.0	34	63	.6
9	66.0	119	8953	94.3	21	760.0	551	4156	43.8	33	8700.0	29	29	.3
10	81.0	151	8834	93.0	22	930.0	473	3605	38.0	34	11000.0			
11	99.0	283	8683	91.4	23	1100.0	677	3132	33.0					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
124	102	85	44	30	40	75	123	204	234	252	132

## ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER

02232500 ST. JOHNS RIVER NEAR CHRISTMAS, FL

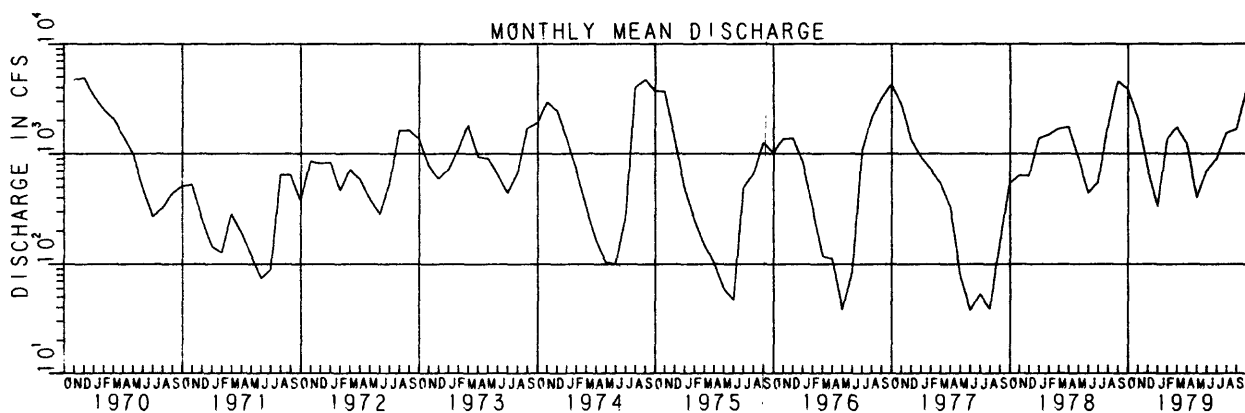
LOCATION.--Lat 28°32'34", long 80°56'37", in SW¼ sec.29, T.22 S., R.34 E., Orange County, Hydrologic Unit 03080101, at bridge on State Highway 50, 0.3 mi (0.5 km) upstream from Tootoosahatchee Creek, 2 mi (3 km) upstream from Lake Cone, 4.5 mi (7.2 km) east of Christmas, and 209 mi (336 km) upstream from mouth.

DRAINAGE AREA.--1,539 mi<sup>2</sup> (3,986 km<sup>2</sup>), includes that of Tootoosahatchee Creek.

PERIOD OF RECORD.--October 1933 to September 1979.

AVERAGE DISCHARGE.--46 years, 1,331 ft<sup>3</sup>/s (37.69 m<sup>3</sup>/s), 11.74 in/yr (298 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft<sup>3</sup>/s (331 m<sup>3</sup>/s) Oct. 12, 1963; no flow Mar. 22-27, Apr. 19, June 12, 13, 1939.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	5	16801	100.0	12	23.0	81	16708	99.4	24	670.0	1583	9626	57.2
1	1.0	4	16796	100.0	13	30.0	156	16627	99.0	25	890.0	1462	8043	47.8
2	1.3	0	16792	99.9	14	40.0	162	16471	98.0	26	1200.0	1536	6581	39.1
3	1.8	3	16792	99.9	15	53.0	283	16309	97.1	27	1600.0	1593	5045	30.0
4	2.3	1	16789	99.9	16	70.0	530	16026	95.4	28	2100.0	1408	3452	20.5
5	3.1	3	16788	99.9	17	93.0	522	15496	92.2	29	2800.0	998	2044	12.1
6	4.1	3	16785	99.9	18	120.0	587	14974	89.1	30	3700.0	521	1046	6.2
7	5.5	6	16782	99.9	19	160.0	680	14387	85.6	31	4900.0	245	525	3.1
8	7.3	7	16776	99.9	20	220.0	731	13707	81.6	32	6500.0	155	280	1.6
9	9.6	5	16769	99.8	21	290.0	917	12976	77.2	33	8600.0	117	125	.7
10	13.0	16	16764	99.8	22	380.0	1145	12059	71.8	34	11000.0	8	8	
11	17.0	40	16748	99.7	23	510.0	1288	10914	65.0					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
160	111	57	42	37	33	82	190	303	347	389	211

## ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER

02233200 LITTLE ECONLOCKHATCHEE RIVER NEAR UNION PARK, FL

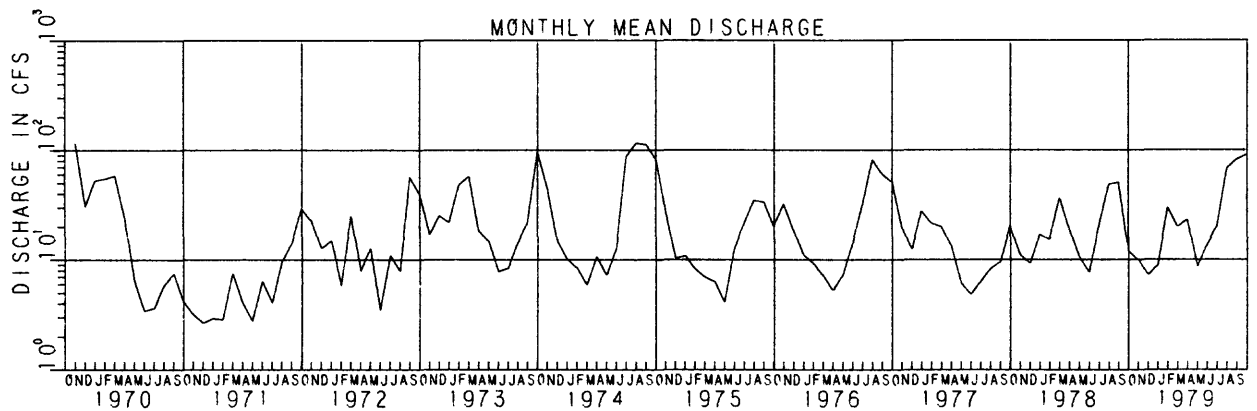
LOCATION.--Lat 28°31'29", long 81°14'39", in SW¼ sec.32, T.22 S., R.31 E., Orange County, Hydrologic Unit 03080101, at bridge on Berry-Deese Road, 3,300 ft (1,000 m) upstream from a tributary, 3 mi (5 km) south of Union Park, 8.5 mi (13.7 km) east of Orlando, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--27.1 mi<sup>2</sup> (70.2 km<sup>2</sup>).

PERIOD OF RECORD.--October 1959 to September 1979.

AVERAGE DISCHARGE.--20 years, 25.1 ft<sup>3</sup>/s (0.711 m<sup>3</sup>/s), 12.58 in/yr (319 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,640 ft<sup>3</sup>/s (46.4 m<sup>3</sup>/s) Mar. 17, 1960; minimum, 0.10 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) June 6, 7, 1961.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	7305	100.0	12	4.2	579	5562	76.1	24	130.0	83	208	2.8
1	0.1	1	7305	100.0	13	5.6	681	4983	68.2	25	180.0	38	125	1.7
2	0.2	6	7304	100.0	14	7.5	721	4302	58.9	26	240.0	40	87	1.1
3	0.3	15	7298	99.9	15	10.0	534	3581	49.0	27	320.0	20	47	.6
4	0.4	34	7283	99.7	16	13.0	664	3047	41.7	28	420.0	16	27	.3
5	0.6	34	7249	99.2	17	18.0	576	2383	32.6	29	560.0	4	11	.1
6	0.8	62	7215	98.8	18	24.0	483	1807	24.7	30	750.0	5	7	
7	1.0	101	7153	97.9	19	32.0	299	1324	18.1	31	1000.0		2	
8	1.3	144	7052	96.5	20	42.0	275	1025	14.0	32	1300.0	2	2	
9	1.8	228	6908	94.6	21	56.0	248	750	10.3					
10	2.4	529	6680	91.4	22	75.0	186	502	6.9					
11	3.2	589	6151	84.2	23	100.0	108	316	4.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2.0	2.7	3.0	1.3	0.55	0.66	2.2	3.8	4.6	3.7	2.6	2.3

## ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER

02233500 ECONLOCKHATCHEE RIVER NEAR CHULUOTA, FL

LOCATION.--Lat 28°40'40", long 81°06'51", in SW¼ sec.10, T.21 S., R.32 E., Seminole County, Hydrologic Unit 03080101, at bridge on State Highway 13, 2.6 mi (4.2 km) northeast of Chuluota; and 10 mi (16 km) upstream from mouth.

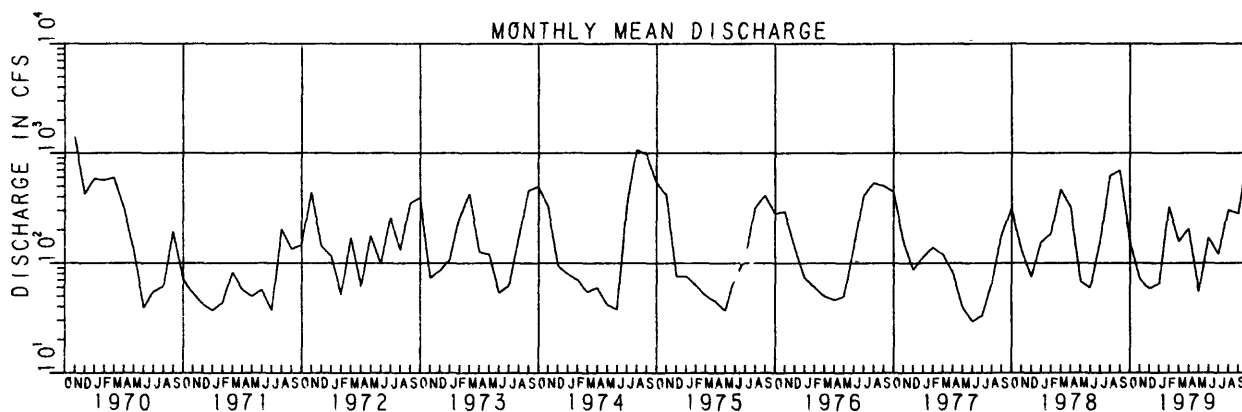
DRAINAGE AREA.--241 mi<sup>2</sup> (624 km<sup>2</sup>).

PERIOD OF RECORD.--October 1935 to September 1979.

REMARKS.--Records include some flow diverted from Lake Mary Jane in the Kissimmee River Basin through Disston Canal.

AVERAGE DISCHARGE.--44 years, 266 ft<sup>3</sup>/s (7.533 m<sup>3</sup>/s), 14.99 in/yr (381 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft<sup>3</sup>/s (312 m<sup>3</sup>/s) Mar. 18, 1960; minimum 6.7 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) June 11-13, 15, 1945.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	16071	100.0	12	76.0	989	9156	57.0	24	1100.0	217	742	4.6
1	6.6	37	16071	100.0	13	94.0	1040	8167	50.8	25	1300.0	240	525	3.2
2	8.4	33	16034	99.8	14	120.0	926	7127	44.3	26	1700.0	103	285	1.7
3	10.0	109	16001	99.6	15	150.0	679	6201	38.6	27	2100.0	52	182	1.1
4	13.0	281	15892	98.9	16	180.0	880	5522	34.4	28	2600.0	47	130	.8
5	16.0	469	15611	97.1	17	230.0	644	4642	28.9	29	3200.0	38	83	.5
6	20.0	542	15142	94.2	18	280.0	686	3998	24.9	30	4000.0	19	45	.2
7	25.0	672	14600	90.8	19	350.0	637	3312	20.6	31	5000.0	13	26	.1
8	31.0	1020	13928	86.7	20	440.0	604	2675	16.6	32	6200.0	6	13	
9	39.0	1255	12908	80.3	21	550.0	560	2071	12.9	33	7800.0	5	7	
10	49.0	1351	11653	72.5	22	690.0	433	1511	9.4	34	9700.0	2	2	
11	61.0	1146	10302	64.1	23	860.0	336	1078	6.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
27	24	19	15	13	14	28	47	56	37	29	24

# ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER

02235000 WEKIVA RIVER NEAR SANFORD, FL

LOCATION.--Lat 28°48'54", long 81°25'10", in SE¼ sec.21, T.19 S., R.29 E., Seminole County, Hydrologic Unit 03080101, at bridge on State Highway 46, 4.5 mi (7.2 km) downstream from Little Wekiva River, 6.7 mi (10.8 km) upstream from mouth, and 8.9 mi (14.3 km) west of Sanford.

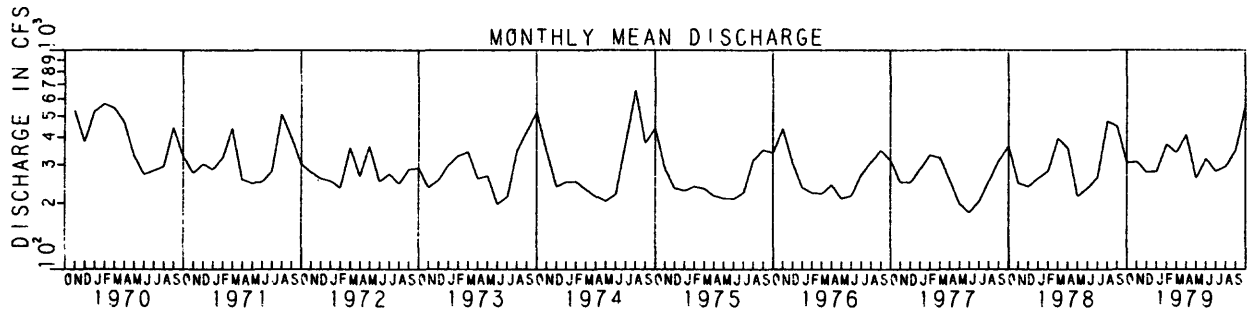
DRAINAGE AREA.--189 mi<sup>2</sup> (490 km<sup>2</sup>).

PERIOD OF RECORD.--October 1935 to September 1979.

REMARKS.--Flow includes large ground-water inflow.

AVERAGE DISCHARGE.--43 years, 288 ft<sup>3</sup>/s (8.156 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 2,060 ft<sup>3</sup>/s (58.3 m<sup>3</sup>/s) Sept. 17, 1945; maximum discharge measured, 1,760 ft<sup>3</sup>/s (4.98 m<sup>3</sup>/s) Mar. 19, 1960; minimum discharge observed, 105 ft<sup>3</sup>/s (2.97 m<sup>3</sup>/s) June 5-13, 1939; minimum discharge measured, 142 ft<sup>3</sup>/s (4.02 m<sup>3</sup>/s) May 18, 1939.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	16071	100.0	12	280.0	1155	5739	35.7	24	800.0	43	197	1.2
1	105.0	9	16071	100.0	13	300.0	1200	4584	28.5	25	870.0	43	154	.9
2	110.0	8	16062	99.9	14	330.0	793	3384	21.1	26	950.0	20	111	.6
3	130.0	7	16054	99.9	15	360.0	575	2591	16.1	27	1000.0	37	91	.5
4	140.0	14	16047	99.9	16	390.0	553	2016	12.5	28	1100.0	16	54	.3
5	150.0	56	16033	99.8	17	430.0	336	1463	9.1	29	1200.0	11	38	.2
6	160.0	432	15977	99.4	18	470.0	237	1127	7.0	30	1300.0	11	27	.1
7	180.0	526	15545	96.7	19	510.0	228	890	5.5	31	1500.0	5	16	
8	190.0	1953	15019	93.5	20	560.0	164	662	4.1	32	1600.0	6	11	
9	210.0	2629	13066	81.3	21	610.0	127	498	3.1	33	1800.0	3	5	
10	230.0	2268	10437	64.9	22	670.0	97	371	2.3	34	1900.0	2	2	
11	250.0	2430	8169	50.8	23	730.0	77	274	1.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
201	194	183	173	169	161	194	188	197	186	192	192

# ST. JOHNS RIVER

ST. JOHNS RIVER BASIN ABOVE OKLAWAHA RIVER

02236000 ST. JOHNS RIVER NEAR DE LAND, FL

LOCATION.--Lat 29°00'29", long 81°22'58", in land grant 38, T.17 S., R.29 E., Lake County, Hydrologic Unit 03080101, at Francis P. Whitehair Bridge on State Highway 44, 5 mi (8 km) west of De Land and 142 mi (228 km) upstream from mouth.

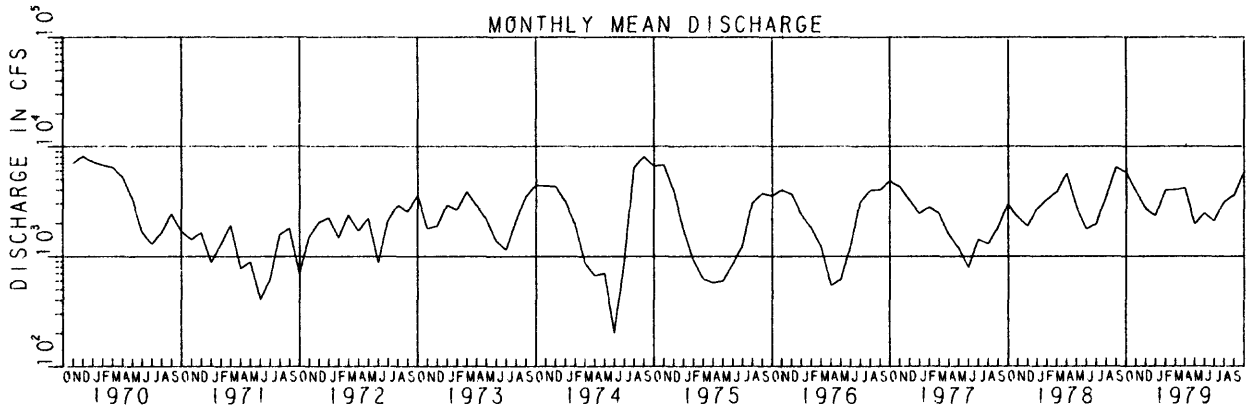
DRAINAGE AREA.--3,066 mi<sup>2</sup> (7,941 km<sup>2</sup>).

PERIOD OF RECORD.--February 1934 to September 1979.

REMARKS.--Flow occasionally reversed as a result of tide and wind effect.

AVERAGE DISCHARGE.--45 years, 3,161 ft<sup>3</sup>/s (89.52 m<sup>3</sup>/s), 14.00 in/yr (356 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,100 ft<sup>3</sup>/s (484 m<sup>3</sup>/s) Oct. 15, 1953; maximum daily reverse flow, 3,030 ft<sup>3</sup>/s (85.8 m<sup>3</sup>/s) Aug. 23, 1957.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-3000.0	4	16801	100.0	12	40.0	10	16442	97.9	24	2000.0	764	10380	61.7
1	-2500.0	12	16797	100.0	13	80.0	8	16432	97.8	25	2200.0	714	9616	57.2
2	-2000.0	22	16785	99.9	14	160.0	117	16424	97.8	26	2400.0	1233	8902	52.9
3	-1500.0	45	16763	99.8	15	320.0	153	16307	97.1	27	2800.0	1071	7669	45.6
4	-1000.0	90	16718	99.5	16	460.0	174	16154	96.1	28	3200.0	1896	6598	39.2
5	-500.0	72	16628	99.0	17	580.0	277	15980	95.1	29	4000.0	1701	4702	27.9
6	-250.0	40	16556	98.5	18	720.0	562	15703	93.5	30	5000.0	1819	3001	17.8
7	-100.0	9	16516	98.3	19	900.0	828	15141	90.1	31	7000.0	820	1182	7.0
8	-50.0	3	16507	98.3	20	1100.0	943	14313	85.2	32	10000.0	174	362	2.1
9	0.0	55	16504	98.2	21	1300.0	880	13370	79.6	33	12000.0	187	188	1.1
10	10.0	1	16449	97.9	22	1500.0	1284	12490	74.3	34	17000.0	1	1	
11	20.0	6	16448	97.9	23	1800.0	826	11206	66.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
575	188	180	130	20	30	572	763	844	1,210	1,180	816

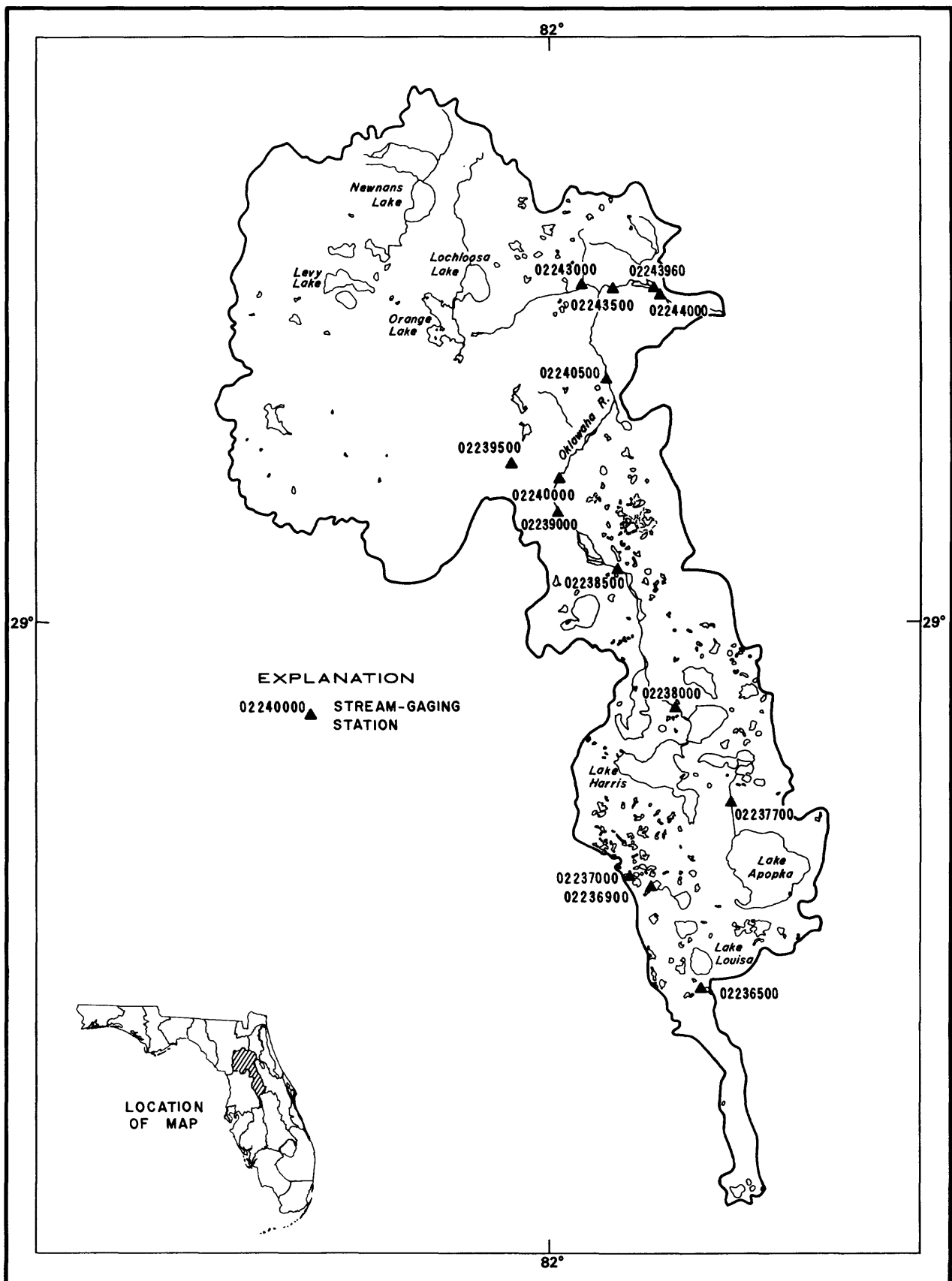


Figure 4.--Stations in the Oklawaha River basin.

ST. JOHNS RIVER  
OKLAWAHA RIVER BASIN

02236500 BIG CREEK NEAR CLERMONT, FL

LOCATION.--Lat 28°26'51", long 81°44'25", in NE¼ sec.31, T.23 S., R.26 E., Lake County, Hydrologic Unit 03080102, 40 ft (12 m) downstream from log bridge, 1 mi (2 km) upstream from Lake Louisa, 7.5 mi (12.1 km) southeast of Clermont, and 131 mi (211 km) upstream from mouth.

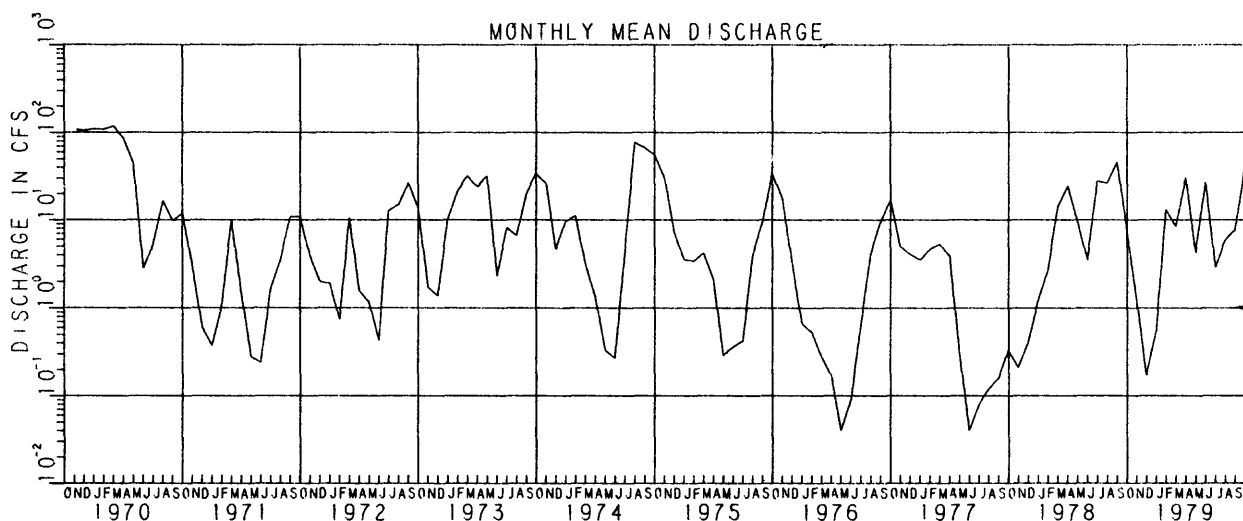
DRAINAGE AREA.--68 mi<sup>2</sup> (176 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--July 1958 to September 1979.

REMARKS.--Some interconnection at high stages with Little Creek and Withlacoochee River basin.

AVERAGE DISCHARGE.--21 years, 29.0 ft<sup>3</sup>/s (0.821 m<sup>3</sup>/s), 5.79 in/yr (147 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 691 ft<sup>3</sup>/s (19.6 m<sup>3</sup>/s) Sept. 13, 1960; no flow many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	186	7670	100.00	12	0.50	266	6326	82.48	24	32.0	499	2047	27.21
1	0.01	13	7484	97.57	13	0.79	254	6060	74.01	25	44.0	533	1588	20.70
2	0.02	10	7471	97.41	14	1.1	271	5802	75.65	26	62.0	372	1055	13.75
3	0.03	5	7461	97.28	15	1.5	333	5531	72.11	27	87.0	282	633	8.90
4	0.04	13	7456	97.21	16	2.2	293	5198	67.77	28	120.0	208	401	5.23
5	0.05	76	7443	97.04	17	3.0	443	4905	63.95	29	170.0	108	193	2.52
6	0.08	107	7367	96.05	18	4.2	435	4402	58.17	30	240.0	40	85	1.11
7	0.11	83	7260	94.65	19	5.9	364	4027	52.50	31	330.0	18	45	0.57
8	0.15	175	7177	93.57	20	9.3	322	3663	47.76	32	460.0	26	27	0.35
9	0.21	163	7002	91.29	21	12.0	318	3341	43.56	33	650.0	1	1	0.01
10	0.29	225	6839	89.17	22	16.0	445	3023	39.41					
11	0.40	288	6614	86.23	23	23.0	451	2538	33.09					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.36	0.63	0.26	0.02	0.00	0.00	0.13	0.34	0.27	0.34	0.21	0.12

ST. JOHNS RIVER  
OKLAWAHA RIVER BASIN

02236900 PALATLAKAHA RIVER AT CHERRY LAKE OUTLET, NEAR GROVELAND, FL

LOCATION.--Lat 28°35'33", long 81°49'21", in NE¼ sec.8, T.22 S., R.25 E., Lake County, Hydrologic Unit 03080102, 21 ft (6 m) upstream from spillway at outlet of Cherry Lake, 3 mi (5 km) northeast of Groveland, and 116 mi (187 km) upstream from mouth.

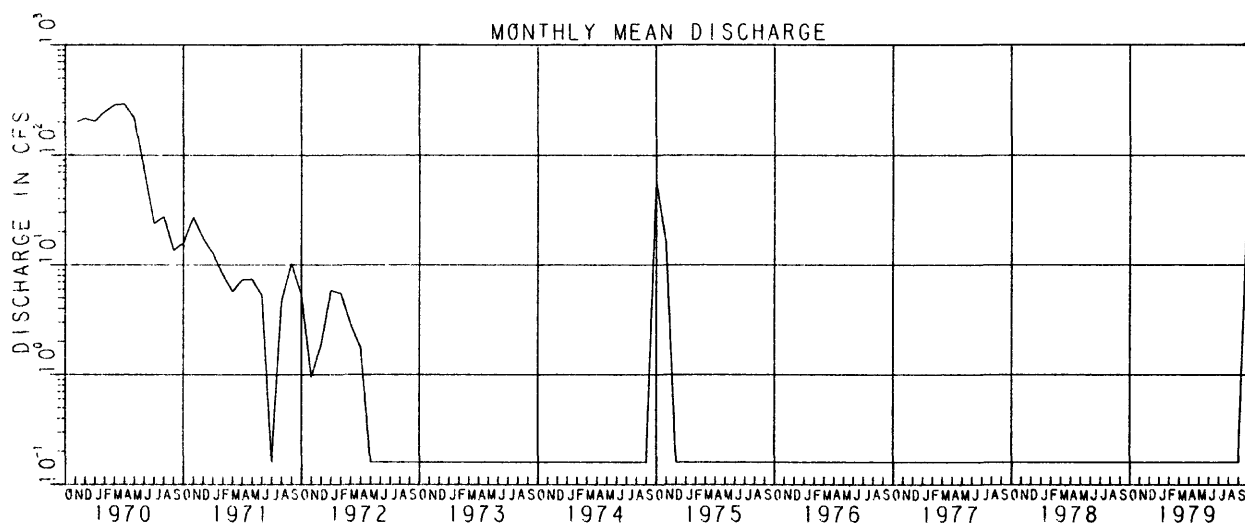
DRAINAGE AREA.--165 mi<sup>2</sup> (427 km<sup>2</sup>).

PERIOD OF RECORD.-- March 1957 to September 1979.

REMARKS.--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. Because of extensive regulation and diversion, no low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--21 years (water years 1958-78), 44.2 ft<sup>3</sup>/s (1.252 m<sup>3</sup>/s), 3.64 in/yr (92 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 584 ft<sup>3</sup>/s (16.5 m<sup>3</sup>/s) Apr. 5, 1960; maximum daily reverse flow, 5.1 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) July 14, 1971; no flow for many days in most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	3611	7670	100.0	12	3.0	119	3609	47.1	24	71.0	134	1410	18.3
1	0.1	6	4059	52.9	13	4.0	87	3490	45.5	25	93.0	175	1276	16.6
2	0.2	0	4053	52.8	14	5.1	192	3403	44.4	26	120.0	209	1101	14.3
3	0.3	0	4053	52.8	15	6.7	381	3211	41.9	27	160.0	143	892	11.6
4	0.4	0	4053	52.8	16	8.7	107	2830	36.9	28	200.0	391	749	9.7
5	0.5	0	4053	52.8	17	11.0	306	2723	35.5	29	270.0	228	358	4.6
6	0.6	0	4053	52.8	18	15.0	272	2417	31.5	30	340.0	94	130	1.6
7	0.8	75	4053	52.8	19	19.0	149	2145	28.0	31	450.0	34	36	.4
8	1.1	1	3978	51.9	20	25.0	311	1996	26.0	32	580.0	2	2	
9	1.4	145	3977	51.9	21	32.0	149	1685	22.0					
10	1.8	26	3832	50.0	22	42.0	47	1536	20.0					
11	2.3	197	3806	49.6	23	55.0	79	1489	19.4					

ST. JOHNS RIVER

OKLAWAHA RIVER BASIN

02237000 PALATLAKAHA RIVER NEAR MASCOTTE, FL

LOCATION.--Lat 28°36'56", long 81°51'53", in SW¼ sec.36, T.21 S., R.24 E., Lake County, Hydrologic Unit 03080102, 260 ft (80 m) upstream from spillway, 0.4 mi (0.6 km) downstream from bridge on State Highway 565, 0.7 mi (1.1 km) downstream from Lake Emma, 3.2 mi (5.1 km) northeast of Mascotte, and 109 mi (175 km) upstream from mouth.

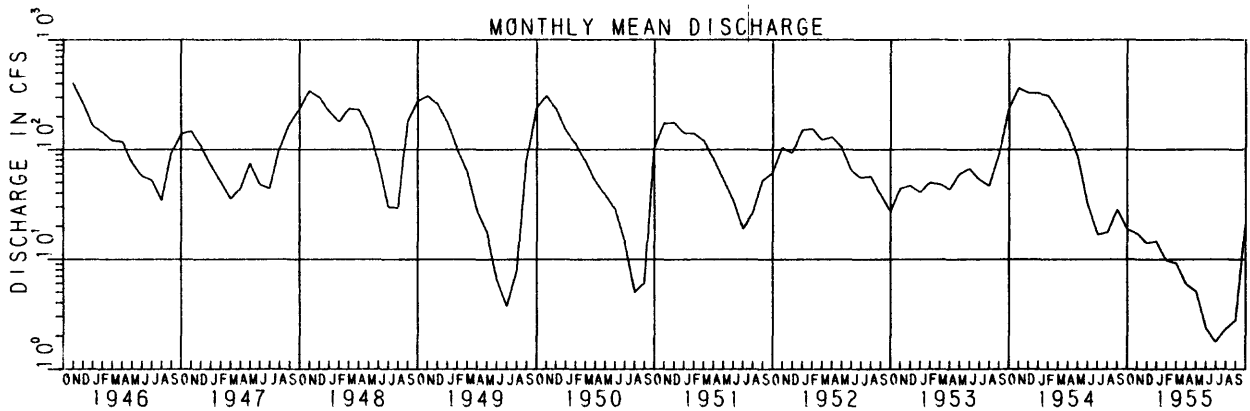
DRAINAGE AREA.--182 mi<sup>2</sup> (471 km<sup>2</sup>).

PERIOD OF RECORD.--May 1945 to March 1956, April 1964 to September 1965.

REMARKS.--Flow regulated. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--10 years (water years 1945-55), 104 ft<sup>3</sup>/s (2.945 m<sup>3</sup>/s), 7.85 in/yr (199 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 458 ft<sup>3</sup>/s (13.0 m<sup>3</sup>/s) Oct. 4, 5, 1945; minimum, 0.2 ft<sup>3</sup>/s (.006 m<sup>3</sup>/s) June 18, 19, 1945.



DUPATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	4017	100.0	12	12.0	146	3402	84.7	24	90.0	116	1621	40.3
1	0.5	1	4017	100.0	13	16.0	165	3256	81.1	25	100.0	210	1505	37.4
2	0.8	8	4016	100.0	14	20.0	120	3091	76.9	26	120.0	329	1295	32.2
3	1.2	14	4008	99.8	15	26.0	181	2971	74.0	27	150.0	198	966	24.0
4	1.6	21	3994	99.4	16	32.0	166	2790	69.5	28	180.0	99	768	19.1
5	2.0	32	3973	98.9	17	40.0	245	2624	65.3	29	200.0	216	669	16.6
6	2.4	42	3941	98.1	18	48.0	122	2379	59.2	30	240.0	195	453	11.2
7	3.0	116	3899	97.1	19	52.0	169	2257	56.2	31	300.0	172	258	6.4
8	4.0	163	3783	94.2	20	58.0	193	2088	52.0	32	350.0	78	86	2.1
9	6.0	39	3620	90.1	21	66.0	85	1895	47.2	33	440.0	8	8	.1
10	8.0	153	3581	89.1	22	72.0	94	1810	45.1					
11	10.0	26	3428	85.3	23	80.0	95	1716	42.7					

## ST. JOHNS RIVER

## OKLAWAHA RIVER BASIN

02237700 APOPKA-BEAUCLAIR CANAL NEAR ASTATULA, FL

LOCATION.--Lat 28°43'20", long 81°41'06", in NW¼ sec.26, T.20 S., R.26 E., Lake County, Hydrologic Unit 03080102, 80 ft (24 m) upstream from lock and dam, 500 ft (150 m) upstream from bridge on county road, and 2.5 mi (4.0 km) east of Astatula.

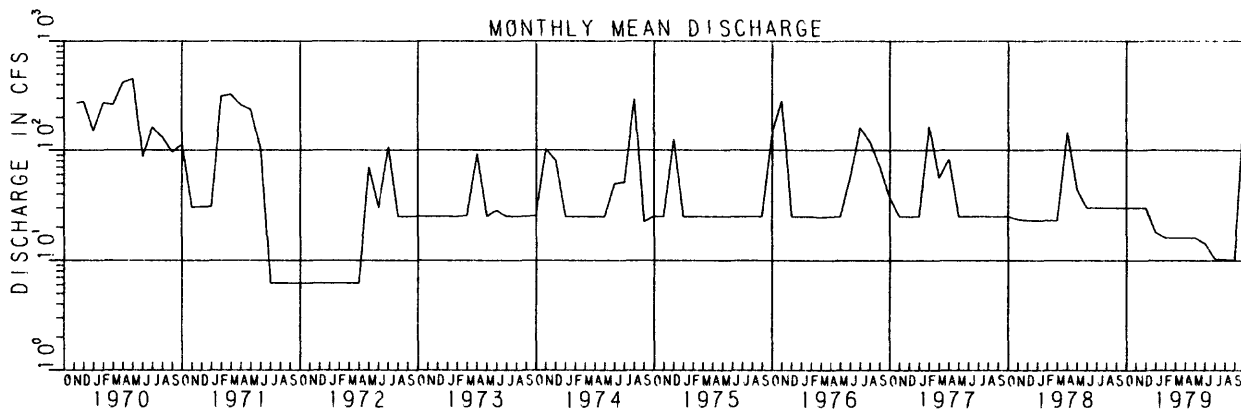
DRAINAGE AREA.--184 mi<sup>2</sup> (477 km<sup>2</sup>).

PERIOD OF RECORD.--July 1958 to September 1979.

REMARKS.--Flow regulated at station by manipulation of gates in spillway. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--21 years 83.1 ft<sup>3</sup>/s (2.353 m<sup>3</sup>/s), 60,210 acre-ft/yr (74.2 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 754 ft<sup>3</sup>/s (21.4 m<sup>3</sup>/s) Mar. 19, 1960; no flow for many days in 1964-66, 1968-69, 1971-72, 1974.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	711	7305	100.0	12	8.6	45	5863	80.3	24	90.0	236	2094	28.6
1	1.0	455	6594	90.3	13	10.0	6	5818	79.6	25	110.0	114	1858	25.4
2	1.2	0	6139	84.0	14	13.0	77	5812	79.6	26	130.0	170	1744	23.8
3	1.5	0	6139	84.0	15	15.0	130	5735	78.5	27	160.0	229	1574	21.5
4	1.8	22	6139	84.0	16	19.0	234	5605	76.7	28	200.0	349	1345	18.4
5	2.2	0	6117	83.7	17	23.0	2391	5371	73.5	29	240.0	253	996	13.6
6	2.7	3	6117	83.7	18	28.0	481	2980	40.8	30	290.0	415	743	10.1
7	3.2	0	6114	83.7	19	34.0	92	2499	34.2	31	350.0	219	328	4.4
8	3.9	1	6114	83.7	20	41.0	91	2407	33.0	32	430.0	105	109	1.4
9	4.8	152	6113	83.7	21	50.0	36	2316	31.7	33	520.0	3	4	
10	5.8	96	5961	81.6	22	61.0	131	2280	31.2	34	640.0	1	1	
11	7.1	2	5865	80.3	23	74.0	55	2149	29.4					

ST. JOHNS RIVER  
OKLAWAHA RIVER BASIN

02238000 HAINES CREEK AT LISBON, FL

LOCATION.--Lat 28°52'14", long 81°47'02", in NW¼ sec.2, T.19 S., R.25 E., Lake County, Hydrologic Unit 03080102, at Burrell lock and dam, 900 ft (270 m) upstream from bridge on State Highway 44, 0.2 mi (0.3 km) south of Lisbon, 7 mi (11 km) northeast of Leesburg, and 82.7 mi (133.1 km) upstream from mouth.

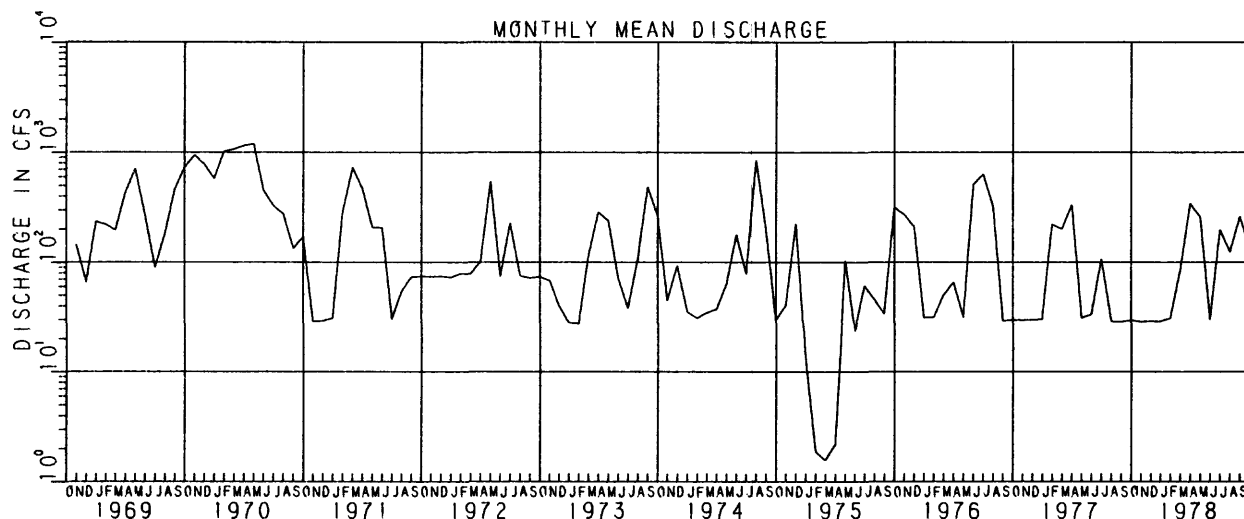
DRAINAGE AREA.--648 mi<sup>2</sup> (1,678 km<sup>2</sup>).

PERIOD OF RECORD.--July 1942 to September 1978.

REMARKS.--Since Dec. 23, 1956, flow regulated at station by manipulation of gates in spillway. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--14 years (water years 1943-56), 292 ft<sup>3</sup>/s (8.269 m<sup>3</sup>/s), 6.20 in/yr (157 mm/yr); 22 years (water years 1957-78), 251 ft<sup>3</sup>/s (7.108 m<sup>3</sup>/s), 181,800 acre-ft/yr (224 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,350 ft<sup>3</sup>/s (38.2 m<sup>3</sup>/s) Jan. 14,15, 1970; no flow Sept. 21 to Dec. 22, 1956, result of temporary coffer dam upstream; minimum discharge prior to closure of coffer dam, 66 ft<sup>3</sup>/s (1.87 m<sup>3</sup>/s) Sept. 18, 1956. No flow for many days in 1975.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	119	13149	100.0	12	11.0	1	12570	95.6	24	150.0	819	7382	56.1
1	1.0	52	13030	99.1	13	14.0	169	12569	95.6	25	190.0	853	6563	49.9
2	1.2	0	12978	98.7	14	17.0	80	12400	94.3	26	230.0	1259	5710	43.4
3	1.5	0	12978	98.7	15	21.0	144	12320	93.7	27	290.0	1109	4451	33.8
4	1.9	58	12978	98.7	16	26.0	2411	12176	92.6	28	360.0	795	3342	25.4
5	2.4	0	12920	98.3	17	33.0	127	9765	74.3	29	450.0	757	2547	19.3
6	3.0	157	12920	98.3	18	41.0	75	9638	73.3	30	560.0	490	1790	13.6
7	3.7	92	12763	97.1	19	51.0	359	9563	72.7	31	690.0	531	1300	9.8
8	4.6	49	12671	96.4	20	63.0	543	9204	70.0	32	860.0	548	769	5.8
9	5.7	47	12622	96.0	21	78.0	250	8661	65.9	33	1100.0	206	221	1.6
10	7.1	3	12575	95.6	22	97.0	354	8411	64.0	34	1300.0	15	15	.1
11	8.8	2	12572	95.6	23	120.0	675	8057	61.3					

## ST. JOHNS RIVER

## OKLAWAHA RIVER BASIN

02238500 OKLAWAHA RIVER AT MOSS BLUFF, FL

LOCATION.--Lat 29°04'52", long 81°52'51", in SW¼ sec.23, T.16 S., R.24 E., Marion County, Hydrologic Unit 03080102, at Moss Bluff Dam, 0.3 mi (0.5 km) upstream from bridge on State Highway 464, 0.4 mi (0.6 km) southwest of Moss Bluff, 3.9 mi (6.3 km) northeast of Oklawaha, and 64.3 mi (103.5 km) upstream from mouth.

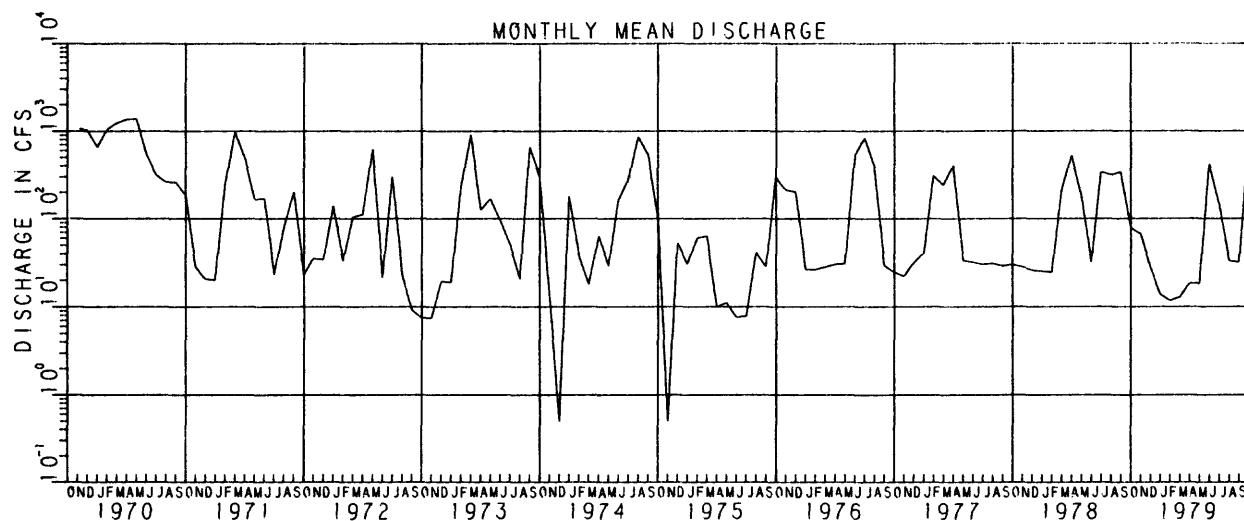
DRAINAGE AREA.--879 mi<sup>2</sup> (2,277 km<sup>2</sup>).

PERIOD OF RECORD.--October 1943 to September 1955 and August 1967 to September 1979.

REMARKS.--Flow regulated by manipulation of gates in spillway. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--24 years (water years 1944-55, 1968-79), 305 ft<sup>3</sup>/s (8.638 m<sup>3</sup>/s), 221,000 acre-ft/yr (272 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,960 ft<sup>3</sup>/s (55.5 m<sup>3</sup>/s) Sept. 30, 1979; no flow for many days in 1973-74.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

OKLAWAHA R AT MOSS BLUFF, FLA.

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	86	8766	100.0	12	7.9	92	8456	96.5	24	160.0	415	5567	63.5
1	0.5	53	8680	99.0	13	10.0	199	8364	95.4	25	200.0	828	5152	58.7
2	0.6	0	8627	98.4	14	13.0	109	8165	93.1	26	260.0	1016	4324	49.3
3	0.8	0	8627	98.4	15	17.0	406	8056	91.9	27	340.0	1061	3308	37.7
4	1.1	3	8627	98.4	16	21.0	618	7650	87.3	28	430.0	767	2247	25.6
5	1.4	0	8624	98.4	17	28.0	421	7032	80.2	29	560.0	677	1480	16.8
6	1.8	0	8624	98.4	18	35.0	350	6611	75.4	30	720.0	447	803	9.1
7	2.2	2	8624	98.4	19	45.0	129	6261	71.4	31	920.0	211	356	4.0
8	2.9	2	8622	98.4	20	58.0	97	6132	70.0	32	1200.0	143	145	1.6
9	3.7	1	8620	98.3	21	75.0	64	6035	68.8	33	1500.0	2	2	
10	4.8	13	8619	98.3	22	96.0	77	5971	68.1	34	2000.0			
11	6.1	150	8606	98.2	23	120.0	327	5894	67.2					

ST. JOHNS RIVER  
OKLAWAHA RIVER BASIN

02239000 OKLAWAHA RIVER NEAR OCALA, FL

LOCATION.--Lat 29°11'00", long 81°59'40", in sec.15, T.15 S., R.23 E., Marion County, Hydrologic Unit 03080102, at highway bridge known as Sharpes Ferry, 2 miles upstream from Silver River, and 9 miles east of Ocala.

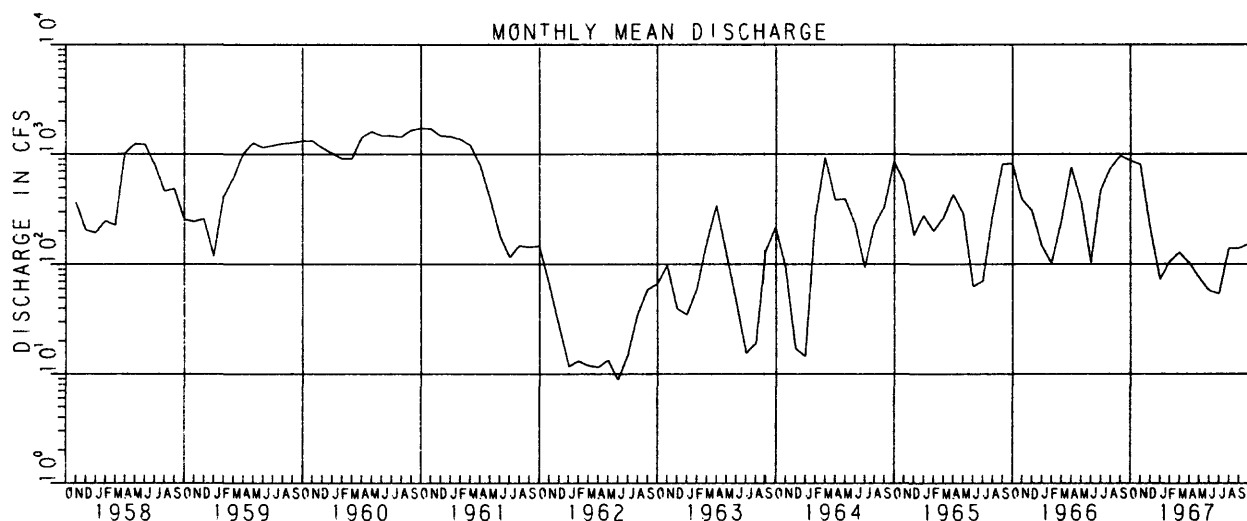
DRAINAGE AREA.--1,070 mi<sup>2</sup> (2770 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--February 1930 to July 1968.

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

AVERAGE DISCHARGE.--37 years (water years 1931-67), 414 ft<sup>3</sup>/s (11.7m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 2,270 ft<sup>3</sup>/s (64.3 m<sup>3</sup>/s) Mar. 18, 1960; minimum daily, 7.2 ft<sup>3</sup>/s (.20 m<sup>3</sup>/s) May 15, 1962.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	13514	100.0	12	33.0	133	12938	95.7	24	320.0	1236	6945	51.3
1	4.1	0	13514	100.0	13	40.0	130	12805	94.8	25	380.0	1388	5709	42.2
2	5.1	0	13514	100.0	14	48.0	183	12675	93.8	26	460.0	1057	4321	31.9
3	6.1	2	13514	100.0	15	58.0	215	12492	92.4	27	560.0	879	3264	24.1
4	7.4	13	13512	100.0	16	70.0	320	12277	90.8	28	670.0	833	2385	17.6
5	8.9	57	13499	99.9	17	85.0	259	11957	88.5	29	810.0	584	1552	11.4
6	11.0	91	13442	99.5	18	100.0	376	11698	86.6	30	980.0	357	968	7.1
7	13.0	94	13351	98.8	19	120.0	540	11322	83.8	31	1200.0	299	611	4.5
8	16.0	59	13257	98.1	20	150.0	501	10782	79.8	32	1400.0	257	312	2.3
9	19.0	57	13198	97.7	21	180.0	909	10281	76.1	33	1700.0	54	55	.4
10	23.0	73	13141	97.2	22	220.0	1065	9372	69.4	34	2100.0	1	1	
11	27.0	130	13068	96.7	23	260.0	1362	8307	61.5					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
47	62	65	50	31	34	53	85	119	79	52	38

ST. JOHNS RIVER  
OKLAWAHA RIVER BASIN

02239500 SILVER SPRINGS NEAR OCALA, FL

LOCATION.--Lat 29°12'44", long 82°03'15", in SE¼ sec. 1, T.15 S., R.23 E., Marion County, Hydrologic Unit 03080102, at glass-bottom boat docking shed, 1,400 ft (430 m) downstream from head of springs, and 5.3 mi (8.5 km) northeast of Ocala.

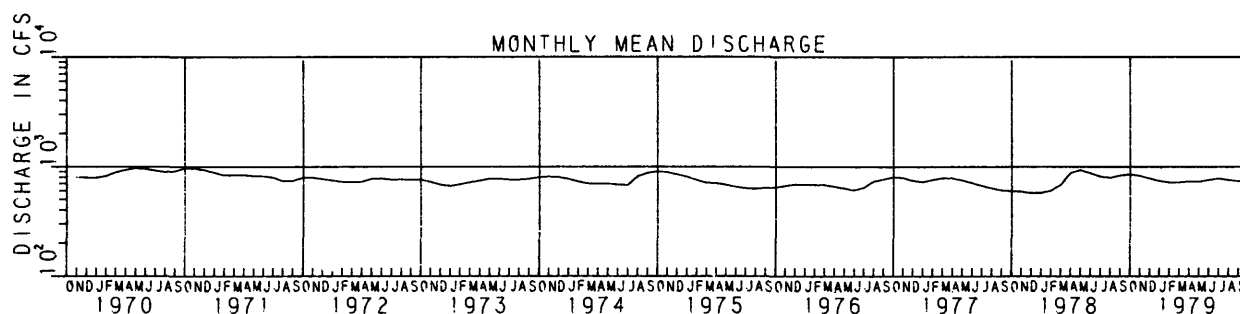
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1932 to September 1979. January 1933 to September 1979 used in this analysis.

REMARKS.--Discharge measurements made 2 to 5 mi (3 to 8 km) downstream from head of springs; surface inflow between head of springs and measuring site is subtracted when measureable.

AVERAGE DISCHARGE.--47 years (water years 1933-79), 810 ft<sup>3</sup>/s (22.94 m<sup>3</sup>/s), 524 mgd (1.983 hm<sup>3</sup>/day).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,290 ft<sup>3</sup>/s (36.5 m<sup>3</sup>/s) Oct. 7, 13-17, 20, 1960; minimum daily discharge, 539 ft<sup>3</sup>/s (15.3 m<sup>3</sup>/s) May 7, 1957.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17166	100.0	12	720.0	1081	12612	73.5	24	980.0	528	2178	12.6
1	539.0	66	17166	100.0	13	740.0	1130	11531	67.2	25	1000.0	1125	1650	9.6
2	550.0	235	17100	99.6	14	760.0	1230	10401	60.6	26	1100.0	413	525	3.0
3	570.0	110	16865	98.2	15	780.0	1049	9171	53.4	27	1200.0	112	112	.6
4	580.0	239	16755	97.6	16	800.0	986	8122	47.3	28	1300.0			
5	600.0	89	16516	96.2	17	820.0	988	7136	41.6					
6	610.0	296	16427	95.7	18	840.0	765	6148	35.8					
7	630.0	752	16131	94.0	19	860.0	809	5383	31.4					
8	650.0	465	15379	89.6	20	890.0	521	4574	26.6					
9	660.0	742	14914	86.9	21	910.0	581	4053	23.6					
10	680.0	802	14172	82.6	22	930.0	788	3472	20.2					
11	700.0	758	13370	77.9	23	960.0	506	2684	15.6					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
640	643	642	624	626	620	632	647	664	665	662	650

# ST. JOHNS RIVER

## OKLAWAHA RIVER BASIN

02240000 OKLAWAHA RIVER NEAR CONNER, FL

LOCATION.--Lat 29°12'50", long 81°59'10", in NW¼ sec.2, T.15 S., R.23 E., Marion county, Hydrologic Unit 03080102 on right bank at downstream side of bridge on State Highway 40, 0.2 mile downstream from Silver River, 1.5 miles southwest of Conner, and 8 miles east of Ocala.

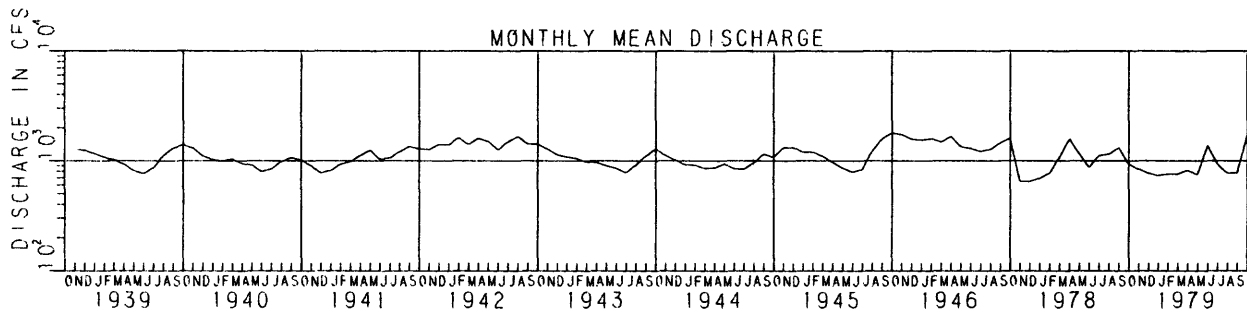
DRAINAGE AREA.--1,140 mi² (2,950 km²), approximately.

PERIOD OF RECORD.--February 1930 to September 1946; March 1963 to current year (gage heights only).

REMARKS.--Some effect from Moss Bluff 14 miles upstream.

AVERAGE DISCHARGE.-- 16 years, (1930-46), 1,197 ft³/s (33.9 m³/s), 14.26 in/yr (362 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 3,700 ft³/s (105 m³/s) Sept. 6, 1933, minimum, 631 ft³/s (17.9 m³/s) Feb. 1, 1933.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	6574	100.0	12	1100.0	650	3640	55.4	24	2300.0	5	27	.4
1	631.0	78	6574	100.0	13	1200.0	768	2990	45.5	25	2400.0	5	22	.3
2	660.0	177	6496	98.8	14	1300.0	572	2222	33.8	26	2500.0	6	17	.2
3	700.0	190	6319	96.1	15	1400.0	559	1650	25.1	27	2700.0	3	11	.1
4	730.0	390	6129	93.2	16	1500.0	356	1091	16.6	28	2800.0		8	.1
5	770.0	254	5739	87.3	17	1600.0	301	735	11.2	29	2900.0	4	8	.1
6	810.0	227	5485	83.4	18	1700.0	135	434	6.6	30	3100.0	3	4	
7	850.0	305	5258	80.0	19	1800.0	163	299	4.5	31	3300.0	1	1	
8	890.0	359	4953	75.3	20	1900.0	52	136	2.1					
9	940.0	329	4594	69.9	21	2000.0	35	84	1.3					
10	990.0	72	4265	64.9	22	2100.0	11	49	0.7					
11	1000.0	553	4193	63.8	23	2200.0	11	38	0.6					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
730	746	764	750	706	677	699	772	863	773	751	753

## ST. JOHNS RIVER

## OKLAWAHA RIVER BASIN

02240500 OKLAWAHA RIVER AT EUREKA, FL

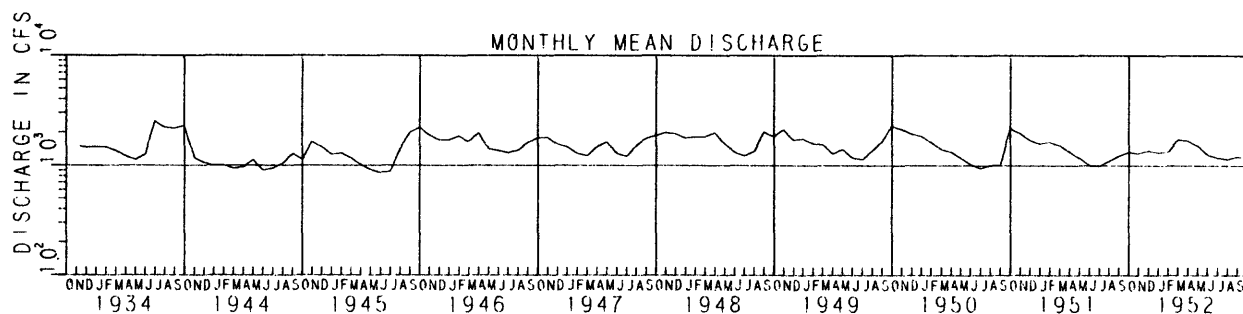
LOCATION.--Lat 29°22', long 81°54', in sec.9, T.13 S., R.24 E., Marion County, Hydrologic Unit 03080102, at bridge on State Highway 316 in Eureka, and 3 miles (5 km) downstream from Eaton Creek.

DRAINAGE AREA.--1,420 mi<sup>2</sup> (3,680 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--February 1930 to June 1934, September 1943 to December 1952.

AVERAGE DISCHARGE.--12 years (water years 1931-33, 1943-51), 1,379 ft<sup>3</sup>/s (39.0 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 6260 f<sup>3</sup>/s (177 m<sup>3</sup>/s) September 7, 1933; minimum observed, 626 ft<sup>3</sup>/s (17.7 m<sup>3</sup>/s) February 2, 1933.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	4749	100.0	12	1400.0	409	2186	46.0	24	3000.0	7	35	.7
1	634.0	22	4749	100.0	13	1500.0	352	1777	37.4	25	3100.0	9	28	.5
2	680.0	93	4727	99.5	14	1600.0	258	1425	30.0	26	3400.0	4	19	.4
3	720.0	166	4634	97.6	15	1700.0	401	1167	24.6	27	3600.0	2	15	.3
4	770.0	99	4468	94.1	16	1800.0	170	766	16.1	28	3800.0	2	13	.2
5	820.0	76	4369	92.0	17	1900.0	169	596	12.6	29	4100.0	1	11	.2
6	870.0	186	4293	90.4	18	2000.0	102	427	9.0	30	4300.0	2	10	.2
7	930.0	250	4107	86.5	19	2100.0	156	325	6.8	31	4600.0	3	8	.1
8	990.0	372	3857	81.2	20	2300.0	65	169	3.6	32	4900.0	3	5	.1
9	1100.0	481	3485	73.4	21	2400.0	41	104	2.2	33	5300.0	2	2	
10	1200.0	468	3004	63.3	22	2600.0	17	63	1.3					
11	1300.0	350	2536	53.4	23	2800.0	11	46	1.0					

VALUE EXCEEDED \*P\* PERCENT OF TIME

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DE
889	858	849	840	793	780	819	878	965	922	938	91

## ST. JOHNS RIVER

## OKLAWAHA RIVER BASIN

02243000 ORANGE CREEK AT ORANGE SPRINGS, FL

LOCATION.--Lat 29°30'34", long 81°56'47", in NE¼ sec.25, T.11 S., R.23 E., Marion County, Hydrologic Unit 03080102, at bridge on State Highway 21, 0.2 mi (0.3 km) northwest of Orange Springs, and 1.2 mi (1.9 km) upstream from Little Orange Creek.

DRAINAGE AREA.--1,067 mi<sup>2</sup> (2,764 km<sup>2</sup>), includes Paynes Prairie, a diked sinkhole area of 650 mi<sup>2</sup> (1,680 km<sup>2</sup>), approximately, which is noncontributing except by pumpage.

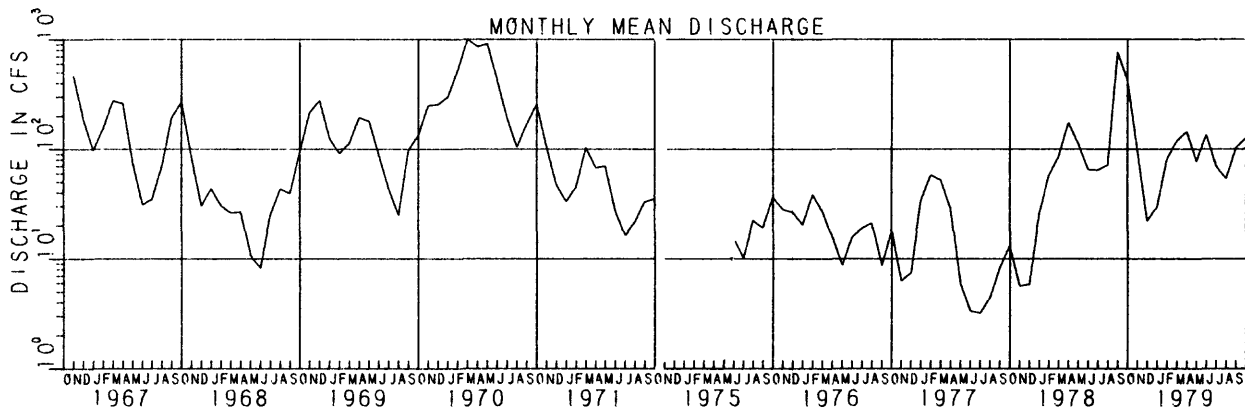
PERIOD OF RECORD.--July 1942 to December 1952, October 1955 to September 1971, May 1975 to September 1979.

REMARKS.--Records include some flow diverted, during periods of high stages, from Santa Fe Lake in Suwannee River basin through Lochloosa Creek. Since April 1963, concrete dam at outlet of Orange Lake, 11 mi (18 km) upstream from station.

AVERAGE DISCHARGE.--30 years (water years 1943-52, 1956-71, 1976-79), 172 ft<sup>3</sup>/s (4.871 m<sup>3</sup>/s), 2.19 in/yr (56 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,170 ft<sup>3</sup>/s (61.5 m<sup>3</sup>/s) Sept. 13, 1964; minimum daily, 2.0 ft<sup>3</sup>/s (0.057 m<sup>3</sup>/s) May 31, June 1, 3-5, 9-14, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1941 had a discharge of 2,400 ft<sup>3</sup>/s (68.0 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	10958	100.0	12	18.0	322	8794	80.3	24	200.0	462	3095	28.2
1	2.0	24	10958	100.0	13	22.0	376	8472	77.3	25	240.0	503	2633	24.0
2	2.4	38	10934	99.8	14	27.0	448	8096	73.9	26	300.0	428	2130	19.4
3	3.0	101	10896	99.4	15	33.0	481	7648	69.8	27	360.0	466	1702	15.5
4	3.6	133	10795	98.5	16	40.0	483	7167	65.4	28	450.0	382	1236	11.2
5	4.5	129	10662	97.3	17	49.0	443	6684	61.0	29	540.0	359	854	7.7
6	5.4	243	10533	96.1	18	60.0	439	6241	57.0	30	660.0	244	495	4.5
7	6.6	262	10290	93.9	19	73.0	491	5802	52.9	31	810.0	156	251	2.2
8	8.1	326	10028	91.5	20	90.0	517	5311	48.5	32	990.0	72	95	.8
9	9.9	254	9702	88.5	21	110.0	401	4794	43.7	33	1200.0	22	23	.2
10	12.0	358	9448	86.2	22	130.0	591	4393	40.1	34	1500.0	1	1	
11	15.0	296	9090	83.0	23	160.0	707	3802	34.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
13	14	11	6.0	4.1	3.8	7.0	9.8	11.8	8.3	7.4	9.5

ST. JOHNS RIVER  
OKLAWAHA RIVER BASIN

02243500 OKLAWAHA RIVER NEAR ORANGE SPRINGS, FL

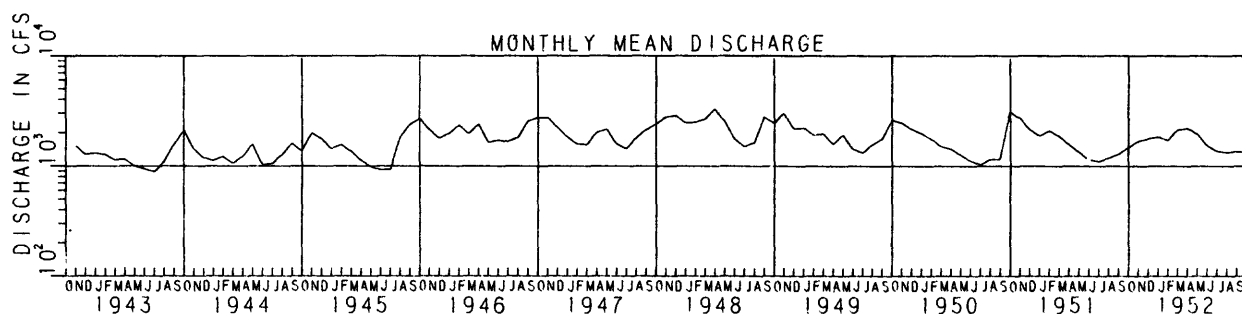
LOCATION.--Lat 29°30'15", long 81°54'45", in sec.29, T.11 S., R.24 E., Marion County, Hydrologic Unit 03080102, immediately below mouth of Orange Creek, 2 miles (3 km) east of Orange Springs.

DRAINAGE AREA.--2,657 mi<sup>2</sup> (6,882 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--February 1930 to December 1952.

AVERAGE DISCHARGE.--22 years, 1,672 ft<sup>3</sup>/s (47 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,760 ft<sup>3</sup>/s (276 m<sup>3</sup>/s) Sept. 9, 1933; minimum observed, 741 ft<sup>3</sup>/s (21.0 m<sup>3</sup>/s) on several days January to June 1933.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	8036	100.0	12	1800.0	739	2784	34.6	24	4400.0	11	29	.3
1	741.0	245	8036	100.0	13	2000.0	231	2045	25.4	25	4800.0	1	18	.2
2	800.0	238	7791	97.0	14	2100.0	503	1814	22.6	26	5200.0	2	17	.2
3	860.0	244	7553	94.0	15	2300.0	188	1311	16.3	27	5600.0	3	15	.1
4	930.0	312	7309	91.0	16	2400.0	353	1123	14.0	28	6000.0	3	12	.1
5	1000.0	417	6997	87.1	17	2600.0	280	770	9.6	29	6500.0	5	9	.1
6	1100.0	519	6580	81.9	18	2800.0	233	490	6.1	30	7000.0	1	4	
7	1200.0	509	6061	75.4	19	3100.0	88	257	3.2	31	7500.0	1	3	
8	1300.0	1342	5552	69.1	20	3300.0	72	169	2.1	32	8100.0		2	
9	1500.0	547	4210	52.4	21	3600.0	33	97	1.2	33	8700.0	2	2	
10	1600.0	519	3663	45.6	22	3800.0	23	64	0.8					
11	1700.0	360	3144	39.1	23	4100.0	12	41	0.5					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1,000	980	918	890	811	793	882	997	1,110	1,030	1,000	980

ST. JOHNS RIVER  
OKLAWAHA RIVER BASIN

02243960 OKLAWAHA RIVER AT RODMAN DAM, NEAR ORANGE SPRINGS, FL

LOCATION.--Lat 29°30'30", long 81°48'15", in NW¼ sec.28, T.11 S., R.25 E., Putnam County, Hydrologic Unit 03080102, at control structure of Rodman Dam, 8.4 mi (13.5 km) east of Orange Springs, and 11.6 mi (18.7 km) upstream from mouth.

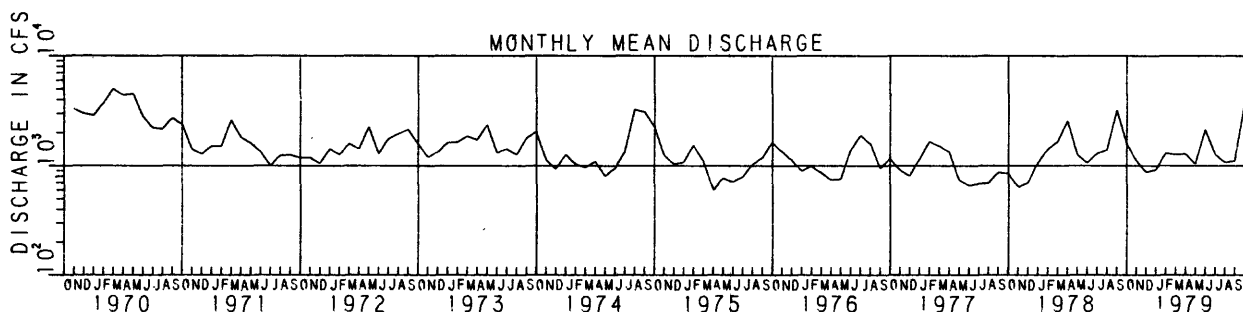
DRAINAGE AREA.--2,747 mi<sup>2</sup> (7,115 km<sup>2</sup>), includes Paynes Prairie, a diked sinkhole area of 650 mi<sup>2</sup> (1,680 km<sup>2</sup>), approximately, which is noncontributing except for pumpage.

PERIOD OF RECORD.--October 1968 to September 1979.

REMARKS.--Flow regulated by manipulation of gates in spillway; dam completed and flow through spillway began on Sept. 30, 1968. Since November 1969, diversion above station from Lake Ocklawaha for boat lockages, through Cross-Florida Barge to St. Johns River. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--11 years, 1,596 ft<sup>3</sup>/s (45.20 m<sup>3</sup>/s), 1,156,000 acre-ft/yr (1.43 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 9,560 ft<sup>3</sup>/s (271 m<sup>3</sup>/s) Feb. 5, 1970; gates closed and flow consists of unknown leakage Mar. 9, 1969.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	1	4017	100.0	12	580.0	123	3885	96.7	24	2600.0	174	507	12.6
1	150.0	1	4016	100.0	13	660.0	218	3762	93.7	25	2900.0	90	333	8.2
2	170.0	1	4015	100.0	14	750.0	212	3544	88.2	26	3300.0	84	243	6.0
3	190.0	2	4014	99.9	15	850.0	350	3332	82.9	27	3700.0	57	159	3.9
4	220.0	16	4012	99.9	16	960.0	407	2982	74.2	28	4200.0	65	102	2.5
5	250.0	2	3996	99.5	17	1100.0	210	2575	64.1	29	4800.0	11	37	.9
6	280.0	1	3994	99.4	18	1200.0	540	2365	58.9	30	5400.0	9	26	.6
7	310.0	2	3993	99.4	19	1400.0	365	1825	45.4	31	6100.0	8	17	.4
8	360.0	2	3991	99.4	20	1600.0	258	1460	36.3	32	6900.0	2	9	.2
9	400.0	23	3989	99.3	21	1800.0	177	1202	29.9	33	7800.0	6	7	.1
10	460.0	45	3966	98.7	22	2000.0	316	1025	25.5	34	8900.0	1	1	
11	520.0	36	3921	97.6	23	2300.0	202	709	17.6					

ST. JOHNS RIVER  
OKLAWAHA RIVER BASIN

02244000 OKLAWAHA RIVER AT RIVERSIDE LANDING, NEAR ORANGE SPRINGS, FL

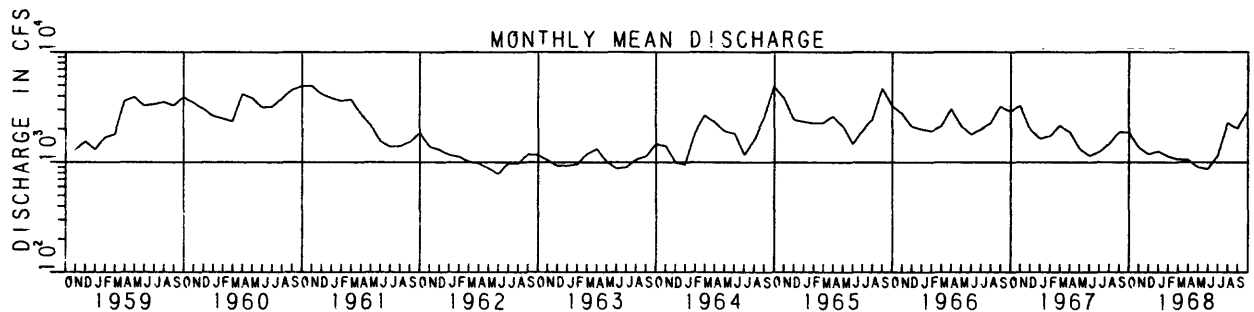
LOCATION.--Lat 29°30', long 81°48', in sec.33, T.11 S., R.25 E., Putnam County, Hydrologic Unit 03080102 at boat dock at Riverside Landing, 8.25 miles (13.3 km) east of Orange Springs.

DRAINAGE AREA.--2,940 mi<sup>2</sup> (7,615 km<sup>2</sup>), approximately includes Payne's Prairie, a diked sink hole area of about 775 mi<sup>2</sup> (2,000 km<sup>2</sup>), which is noncontributing except by pumpage.

PERIOD OF RECORD.--October 1943 to September 1968.

AVERAGE DISCHARGE.--25 years, 2,018 ft<sup>3</sup>/s (57.2 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--1943-64: Maximum discharge, 8,760 ft<sup>3</sup>/s (248 m<sup>3</sup>/s) Sept. 15, 1964; minimum discharge, 697 ft<sup>3</sup>/s (19.7 m<sup>3</sup>/s) Apr. 28, 29, 1957.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	9132	100.0	12	1600.0	360	5200	56.9	24	4000.0	147	394	4.3
1	699.0	55	9132	100.0	13	1700.0	738	4840	53.0	25	4400.0	60	247	2.7
2	750.0	154	9077	99.4	14	1900.0	321	4102	44.9	26	4700.0	66	187	2.0
3	810.0	335	8923	97.7	15	2000.0	579	3781	41.4	27	5100.0	59	121	1.3
4	880.0	321	8588	94.0	16	2200.0	520	3202	35.1	28	5500.0	30	62	.6
5	950.0	271	8267	90.5	17	2400.0	389	2682	29.4	29	5900.0	16	32	.3
6	1000.0	331	7996	87.6	18	2600.0	395	2293	25.1	30	6400.0	4	16	.1
7	1100.0	578	7665	83.9	19	2800.0	379	1898	20.8	31	6900.0	5	12	.1
8	1200.0	521	7087	77.6	20	3000.0	291	1519	16.6	32	7400.0	4	7	
9	1300.0	526	6566	71.9	21	3200.0	396	1228	13.4	33	8000.0	1	3	
10	1400.0	461	6040	66.1	22	3500.0	193	832	9.1	34	8600.0	2	2	
11	1500.0	379	5579	61.1	23	3700.0	245	639	7.0					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
974	996	970	868	829	830	938	976	1,050	996	975	943

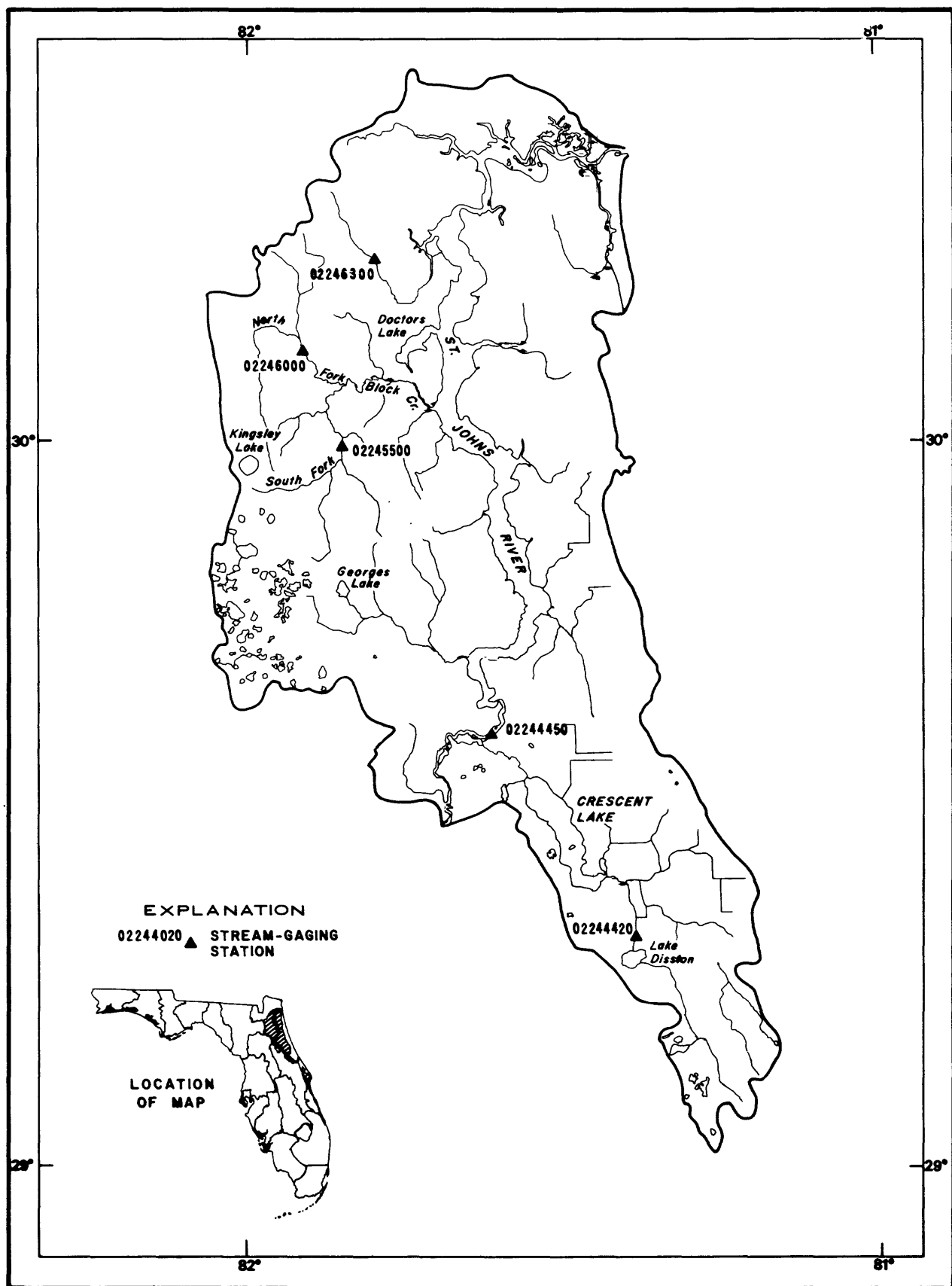


Figure 5.--Stations in the St. Johns River basin below the Oklawaha River.

# ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN BELOW OKLAWAHA RIVER

02244420 LITTLE HAW CREEK NEAR SEVILLE, FL

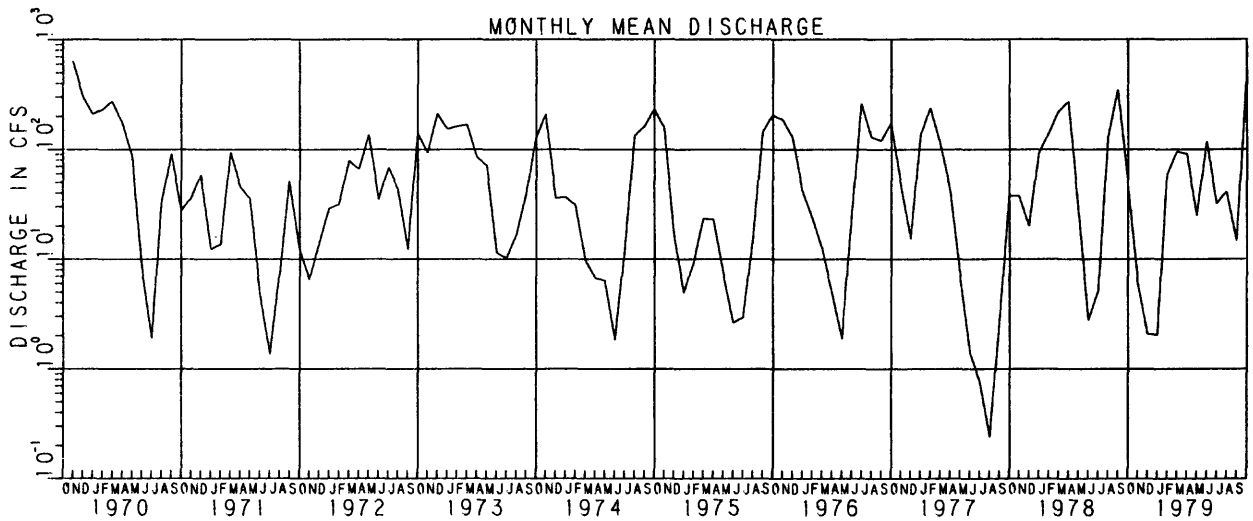
LOCATION.--Lat 29°19'20", long 81°23'10", in SE¼ sec.32, T.13 S., R.29 E., Flagler County, Hydrologic Unit 03080103, 600 ft (180 m) downstream from bridge on State Highway 305, 1.4 mi (2.3 km) downstream from Lake Disston, and 6.4 mi (10.3 km) east of Seville.

DRAINAGE AREA.--93.0 mi<sup>2</sup> (240.9 km<sup>2</sup>).

PERIOD OF RECORD.--January 1951 to September 1979.

AVERAGE DISCHARGE.--28 years, 84.7 ft<sup>3</sup>/s (2.475 m<sup>3</sup>/s), 12.76 in/yr (324 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,630 ft<sup>3</sup>/s (46.2 m<sup>3</sup>/s) Oct. 19,20, 1968; no flow for many days in 1962, 1967, 1968, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	95	10227	100.00	12	0.78	159	9829	96.11	24	60.0	672	3767	36.83
1	0.01	1	10132	99.07	13	1.1	338	9670	94.55	25	86.0	660	3095	30.26
2	0.02	3	10131	99.06	14	1.6	368	9332	91.25	26	120.0	813	2435	23.81
3	0.03	3	10128	99.03	15	2.3	328	8964	87.65	27	180.0	720	1622	15.86
4	0.04	8	10125	99.00	16	3.3	359	8636	84.44	28	260.0	451	902	8.82
5	0.06	4	10117	98.92	17	4.8	447	8277	80.93	29	370.0	265	451	4.41
6	0.09	17	10113	98.89	18	6.3	589	7830	76.56	30	530.0	120	186	1.82
7	0.13	10	10096	98.72	19	9.8	544	7241	70.80	31	760.0	54	66	0.65
8	0.18	32	10086	98.62	20	14.0	716	6697	65.48	32	1100.0	11	12	0.12
9	0.26	39	10054	98.31	21	20.0	770	5931	58.48	33	1600.0	1	1	0.01
10	0.38	55	10015	97.93	22	29.0	769	5211	50.95					
11	0.54	131	9960	97.39	23	42.0	675	4442	43.43					

VALUE EXCEEDED \*P\* PERCENT OF TIME

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
4.1	4.7	2.8	0.86	0.23	0.33	0.40	2.4	5.9	7.4	5.4	3.9

## ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN BELOW OKLAWAHA RIVER

02244450 ST. JOHNS RIVER AT PALATKA, FL

LOCATION.--Lat 29°35'46", long 81°36'29", in NW¼ sec.30, T.10 S., R.27 E., Putnam County, Hydrologic Unit 03080103, at Edgewater Light 13, 1.4 mi (2.2 km) downstream from Dunns Creek, 5.0 mi (8.0 km) southeast of Palatka, and 84 mi (135 km) upstream from mouth. Prior to Feb. 24, 1976, at site 6 mi (10 km) downstream.

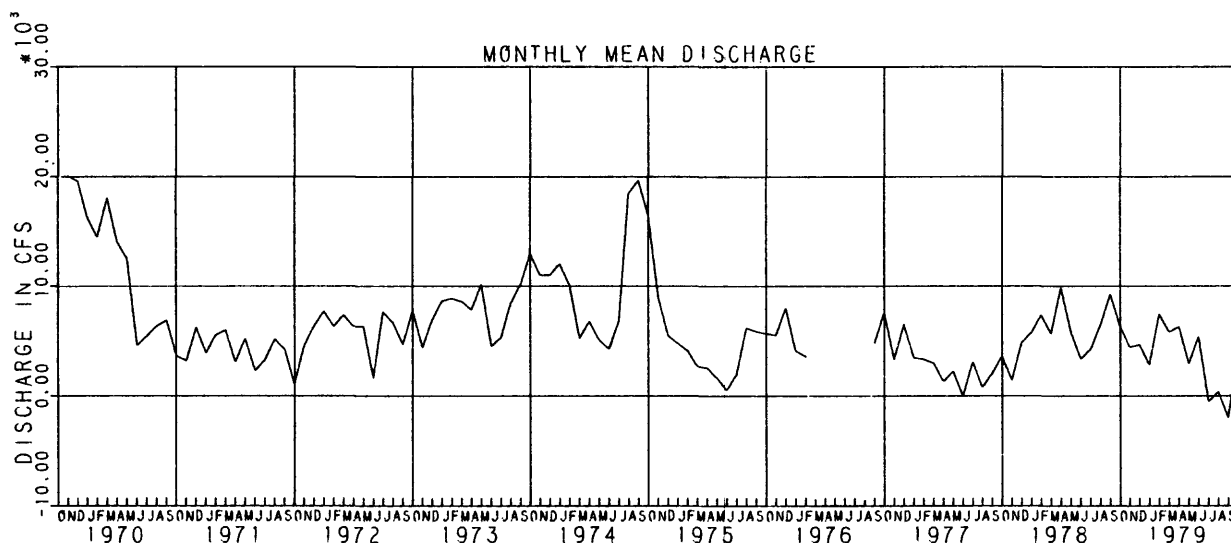
DRAINAGE AREA.--7,094 mi<sup>2</sup> (18,373 km<sup>2</sup>), includes Paynes Prairie, a diked sinkhole area of about 650 mi<sup>2</sup> (1,680 km<sup>2</sup>), which is noncontributing except for pumpage.

PERIOD OF RECORD.--January 1968 to February 1976, July 1976 to September 1979.

REMARKS.--Flow affected by tide. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--10 years (water years 1969-75, 1977-79), 6,531 ft<sup>3</sup>/s (185.0 m<sup>3</sup>/s), 4,732,000 acre-ft/yr (5.83 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 31,300 ft<sup>3</sup>/s (886 m<sup>3</sup>/s) Nov. 5, 1970; maximum daily reverse flow, 20,400 ft<sup>3</sup>/s (578 m<sup>3</sup>/s) June 6, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-20000.0	3	3925	100.0	12	200.0	13	3321	84.6	24	9000.0	388	1283	32.6
1	-15000.0	29	3922	99.9	13	300.0	30	3308	84.3	25	11000.0	280	895	22.8
2	-10000.0	113	3893	99.2	14	500.0	47	3278	83.5	26	13000.0	177	615	15.6
3	-5000.0	201	3780	96.3	15	750.0	55	3231	82.3	27	15000.0	249	433	11.1
4	-2000.0	90	3579	91.2	16	1000.0	67	3176	80.9	28	19000.0	145	189	4.8
5	-1000.0	73	3489	88.9	17	1400.0	125	3109	79.2	29	24000.0	42	44	1.1
6	-500.0	49	3416	87.0	18	2000.0	112	2984	76.0	30	30000.0	2	2	
7	-100.0	22	3367	85.8	19	2600.0	197	2872	73.2					
8	0.0	5	3345	85.2	20	3400.0	234	2675	68.2					
9	50.0	8	3340	85.1	21	4200.0	239	2441	62.2					
10	100.0	7	3332	84.9	22	5200.0	475	2202	56.1					
11	150.0	4	3325	84.7	23	7000.0	444	1727	44.0					

# ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN BELOW OKLAWAHA RIVER

02245500 SOUTH FORK BLACK CREEK NEAR PENNEY FARMS, FL

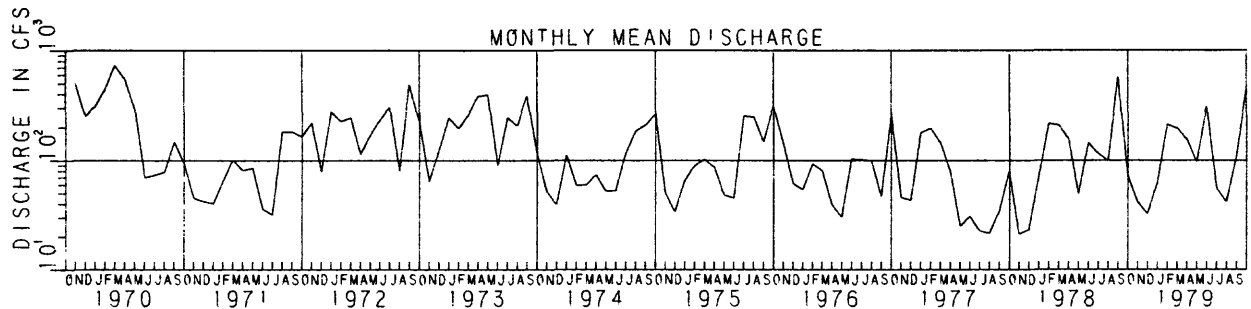
LOCATION.--Lat 29°58'45", long 81°51'08", in NE¼ sec.13, T.6 S., R.24 E., Clay County, Hydrologic Unit 03080103, at bridge on State Highway 16, 0.7 mi (1.1 km) downstream from Greens Creek, 2.5 mi (4.0 km) west of Penney Farms, 9.5 mi (15.3 km) west of Green Cove Springs, and 24 mi (39 km) upstream from mouth of Black Creek.

DRAINAGE AREA.--134 mi<sup>2</sup> (347 km<sup>2</sup>).

PERIOD OF RECORD.--October 1939 to September 1979.

AVERAGE DISCHARGE.--40 years, 158 ft<sup>3</sup>/s (4.475 m<sup>3</sup>/s), 16.01 in/yr (407 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft<sup>3</sup>/s (394 m<sup>3</sup>/s) Oct. 19, 1944; minimum, about 9.4 ft<sup>3</sup>/s (0.27 m<sup>3</sup>/s) June 24, 1955.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14610	100.0	12	93.0	882	5928	40.6	24	1100.0	60	195	1.3
1	10.0	2	14610	100.0	13	110.0	1072	5046	34.5	25	1300.0	43	135	.9
2	12.0	42	14608	100.0	14	140.0	759	3974	27.2	26	1600.0	24	92	.6
3	15.0	83	14566	99.7	15	170.0	695	3215	22.0	27	1900.0	21	68	.4
4	18.0	284	14483	99.1	16	210.0	548	2520	17.2	28	2400.0	15	47	.3
5	22.0	591	14199	97.2	17	260.0	371	1972	13.5	29	2900.0	5	32	.2
6	28.0	890	13608	93.1	18	310.0	406	1601	11.0	30	3600.0	10	27	.1
7	34.0	1113	12718	87.0	19	380.0	298	1195	8.2	31	4400.0	7	17	.1
8	41.0	1522	11605	79.4	20	470.0	223	897	6.1	32	5300.0	7	10	
9	51.0	1536	10083	69.0	21	570.0	173	674	4.6	33	6500.0	1	3	
10	62.0	1368	8547	58.5	22	700.0	162	501	3.4	34	8000.0	2	2	
11	76.0	1251	7179	49.1	23	860.0	144	339	2.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
36	41	34	21	19	20	24	29	31	27	26	29

# ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN BELOW OKLAWAHA RIVER

02246000 NORTH FORK BLACK CREEK NEAR MIDDLEBURG, FL

LOCATION.--Lat 30°06'47", long 81°54'24", in NE¼ sec.33, T.4 S., R.24 E., Clay County, Hydrologic Unit 03080103, 0.3 mi (0.5 km) upstream from Big Branch, 4 mi (6 km) northwest of Middleburg, and 7.5 mi (12.1 km) upstream from confluence with South Fork.

DRAINAGE AREA.--177 mi<sup>2</sup> (458 km<sup>2</sup>).

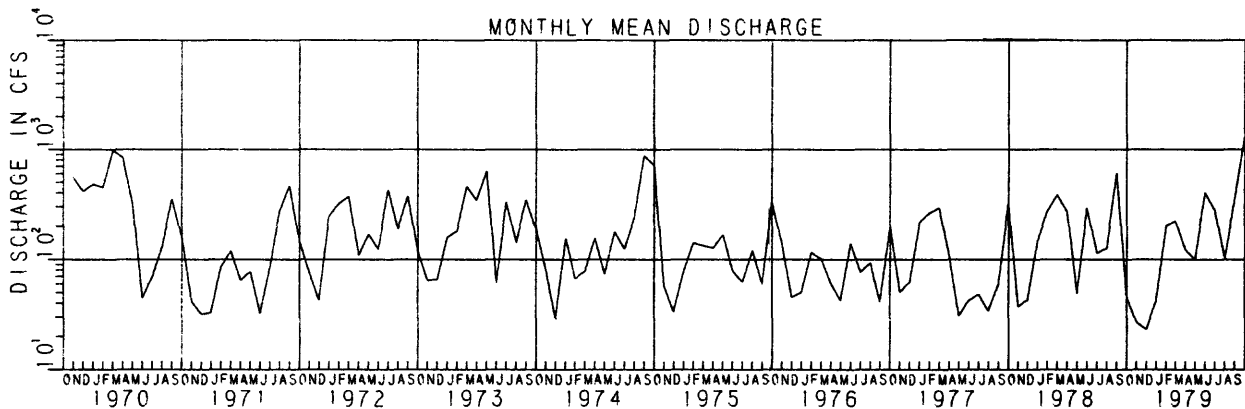
PERIOD OF RECORD.--October 1931 to September 1979.

REMARKS.--Stage-discharge relation affected by tide on some days.

AVERAGE DISCHARGE.--48 years, 193 ft<sup>3</sup>/s (5.466 m<sup>3</sup>/s), 14.80 in/yr (376 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft<sup>3</sup>/s (357 m<sup>3</sup>/s) May 3, 1964; minimum observed, 3.6 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s) June 8, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1919 had a discharge of 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17532	100.0	12	53.0	1630	10528	60.1	24	970.0	156	590	3.3
1	3.6	17	17532	100.0	13	68.0	1322	8898	50.8	25	1200.0	178	434	2.4
2	4.7	68	17515	99.9	14	86.0	1331	7576	43.2	26	1600.0	90	256	1.4
3	6.0	118	17447	99.5	15	110.0	1115	6245	35.6	27	2000.0	62	166	.9
4	7.6	161	17329	98.8	16	140.0	1000	5130	29.3	28	2600.0	28	104	.5
5	9.7	213	17168	97.9	17	180.0	813	4130	23.6	29	3200.0	28	76	.4
6	12.0	542	16955	96.7	18	230.0	678	3317	18.9	30	4100.0	22	48	.2
7	16.0	491	16413	93.6	19	290.0	606	2639	15.1	31	5300.0	13	26	.1
8	20.0	955	15922	90.8	20	370.0	485	2033	11.6	32	6700.0	8	13	
9	26.0	1353	14967	85.4	21	470.0	398	1548	8.8	33	8600.0	4	5	
10	33.0	1526	13614	77.7	22	600.0	296	1150	6.6	34	11000.0	1	1	
11	42.0	1560	12088	68.9	23	760.0	264	854	4.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
27	28	23	13	8.5	8.4	14	17	22	18	15	19

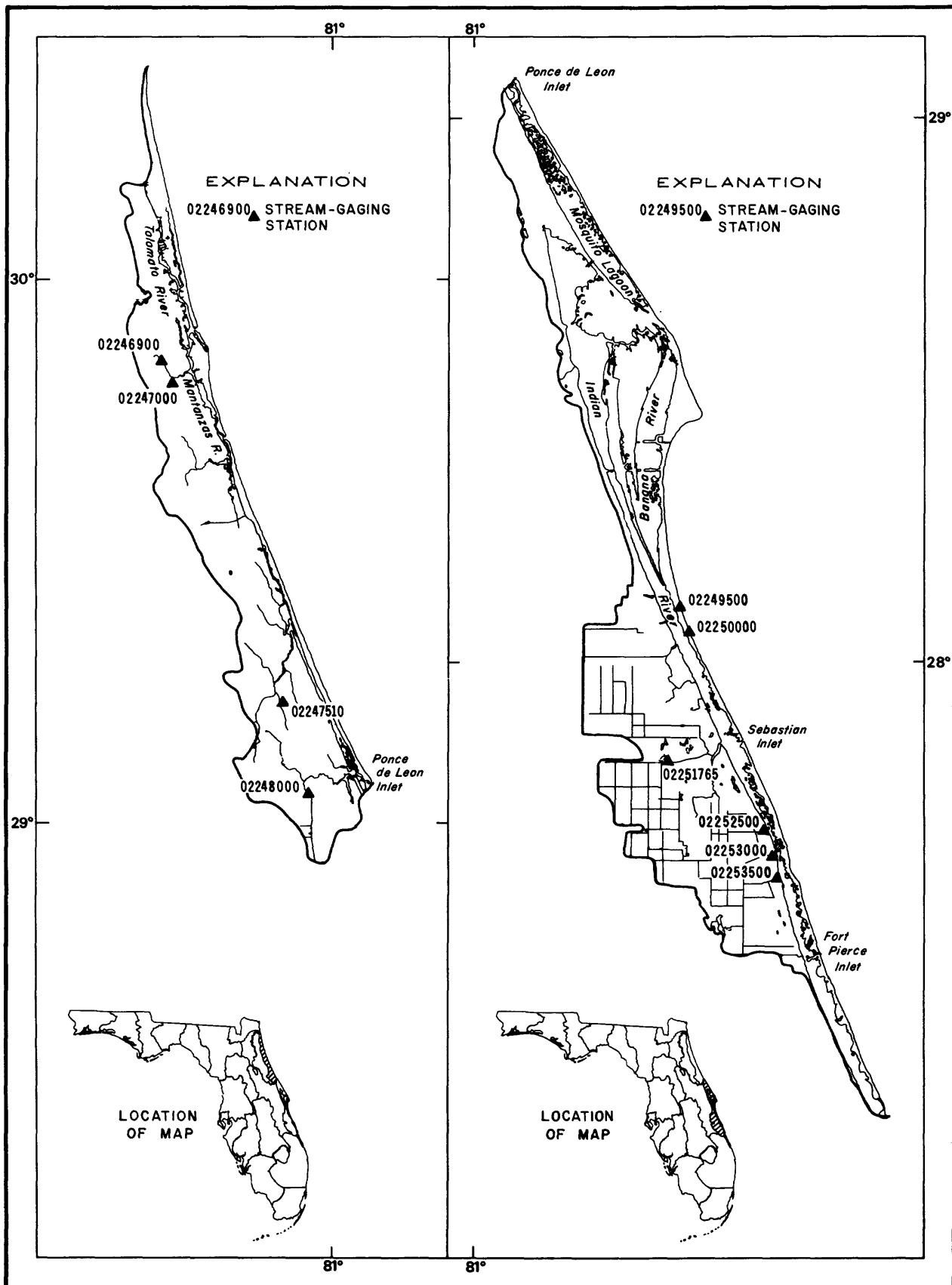


Figure 6.--Stations in the coastal area between the St. Johns and St. Lucie Rivers.

# ST. JOHNS RIVER

## ST. JOHNS RIVER BASIN BELOW OKLAWAHA RIVER

02246300 ORTEGA RIVER AT JACKSONVILLE, FL

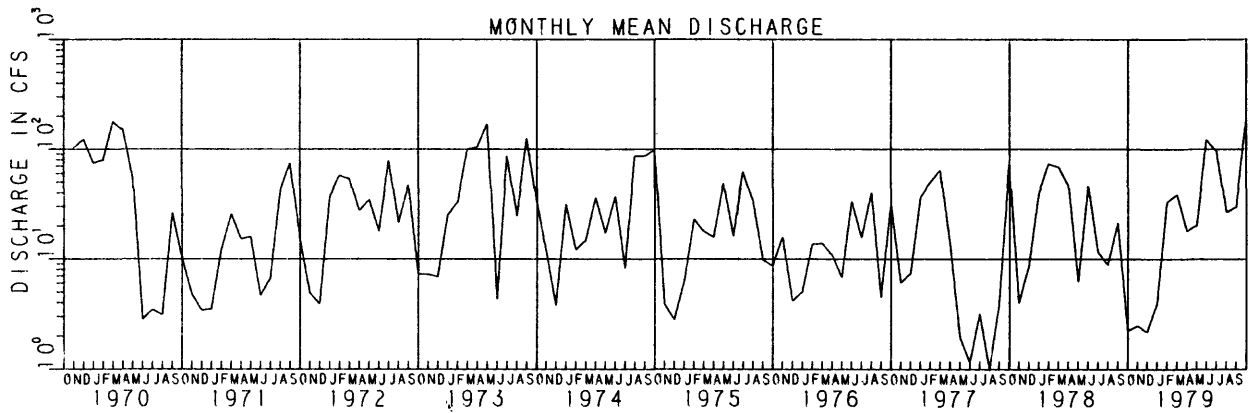
LOCATION.--Lat 30°14'50", long 81°47'49", in NW¼ sec.15, T.3 S., R.25 E., Duval County, Hydrologic Unit 03080103, at bridge on 103rd Street in Jacksonville, 15 mi (24 km) upstream from mouth.

DRAINAGE AREA.--30.9 mi<sup>2</sup> (80.0 km<sup>2</sup>).

PERIOD OF RECORD.--January 1965 to September 1979.

AVERAGE DISCHARGE.--14 years, 38.0 ft<sup>3</sup>/s (1.076 m<sup>3</sup>/s), 16.70 in/yr (424 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,950 ft<sup>3</sup>/s (83.5 m<sup>3</sup>/s) Aug. 30, 1968; minimum, 0.20 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) June 5, 1965.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5113	100.0	12	5.6	386	3611	70.6	24	140.0	79	292	5.7
1	0.2	7	5113	100.0	13	7.3	377	3225	63.1	25	180.0	62	213	4.1
2	0.4	4	5106	99.9	14	9.5	293	2848	55.7	26	230.0	52	151	2.9
3	0.5	23	5102	99.8	15	12.0	463	2555	50.0	27	300.0	42	99	1.9
4	0.7	38	5079	99.3	16	16.0	378	2092	40.9	28	390.0	28	57	1.1
5	0.9	21	5041	98.6	17	21.0	307	1714	33.5	29	510.0	12	29	.5
6	1.1	86	5020	98.2	18	28.0	241	1407	27.5	30	670.0	4	17	.3
7	1.5	106	4934	96.5	19	36.0	230	1166	22.8	31	870.0	7	13	.2
8	1.9	254	4828	94.4	20	47.0	200	936	18.3	32	1100.0	2	6	.1
9	2.5	295	4574	89.5	21	61.0	183	736	14.4	33	1500.0	2	4	
10	3.3	345	4279	83.7	22	80.0	118	553	10.8	34	1900.0	2	2	
11	4.3	323	3934	76.9	23	100.0	143	435	8.5					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
4.5	5.5	3.8	1.5	0.74	0.94	1.2	1.3	1.2	1.3	1.7	2.0

# ST. JOHNS RIVER

## COASTAL AREA BETWEEN ST. JOHNS RIVER AND PONCE DE LEON INLET

02246900 MOULTRIE CREEK AT STATE HIGHWAY 207, NEAR ST. AUGUSTINE, FL

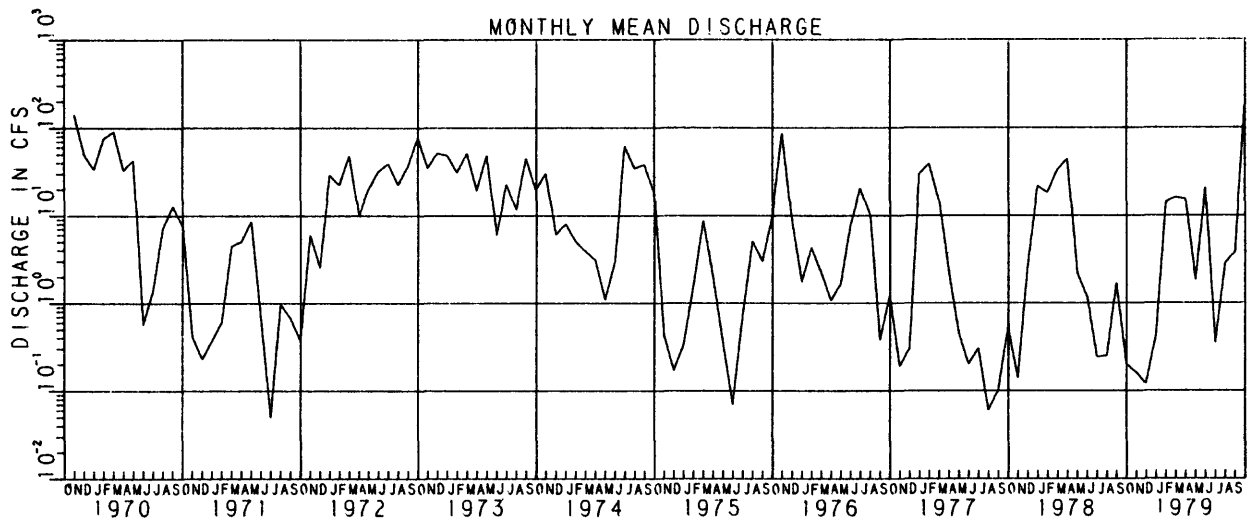
LOCATION.--Lat 29°50'50", long 81°21'39", in SE¼ sec.34, T.7 S., R.29 E., St. Johns County, Hydrologic Unit 03080201, at box culvert on State Highway 207, 2.0 mi (3.2 km) upstream from Fort Peyton Branch, 4.2 mi (6.8 km) southwest of St. Augustine, and 6.3 mi (10.1 km) upstream from mouth.

DRAINAGE AREA.--19.8 mi<sup>2</sup> (51.3 km<sup>2</sup>).

PERIOD OF RECORD.--October 1961 to September 1979.

AVERAGE DISCHARGE.--18 years, 18.2 ft<sup>3</sup>/s (0.515 m<sup>3</sup>/s), 12.48 in/yr (317 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 860 ft<sup>3</sup>/s (24.4 m<sup>3</sup>/s) Sept. 21, 1969; no flow for all or part of each day, June 2 1965, May 15-21, 29-31, 1967, May 22-25, 1968, Oct. 8, 1971.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	15	6574	100.00	12	0.57	253	4453	73.82	24	33.0	271	892	13.57
1	0.01	16	6559	99.77	13	0.80	210	4600	69.97	25	46.0	212	621	9.45
2	0.02	26	6543	99.53	14	1.1	317	4390	66.78	26	64.0	139	409	6.22
3	0.03	43	6517	99.13	15	1.6	326	4078	62.03	27	70.0	109	270	4.11
4	0.04	63	6474	98.48	16	2.2	337	3752	57.07	28	130.0	57	161	2.45
5	0.05	136	6411	97.52	17	3.1	359	3415	51.95	29	180.0	45	104	1.58
6	0.08	228	6275	95.45	18	4.3	454	3056	46.49	30	250.0	22	59	0.90
7	0.11	181	6047	91.98	19	6.1	379	2602	39.56	31	350.0	20	37	0.56
8	0.15	315	5866	89.23	20	8.5	316	2223	33.82	32	480.0	16	17	0.26
9	0.21	159	5551	84.44	21	12.0	333	1907	24.01	33	680.0	1	1	0.02
10	0.29	321	5392	82.02	22	17.0	320	1574	23.94					
11	0.41	218	5071	77.14	23	23.0	362	1254	19.08					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.46	0.68	0.57	0.13	0.00	0.03	0.04	0.07	0.09	0.05	0.07	0.16

# ST. JOHNS RIVER

COASTAL BASIN BETWEEN ST. JOHNS RIVER AND PONCE DE LEON INLET

02247000 MOULTRIE CREEK NEAR ST. AUGUSTINE, FL

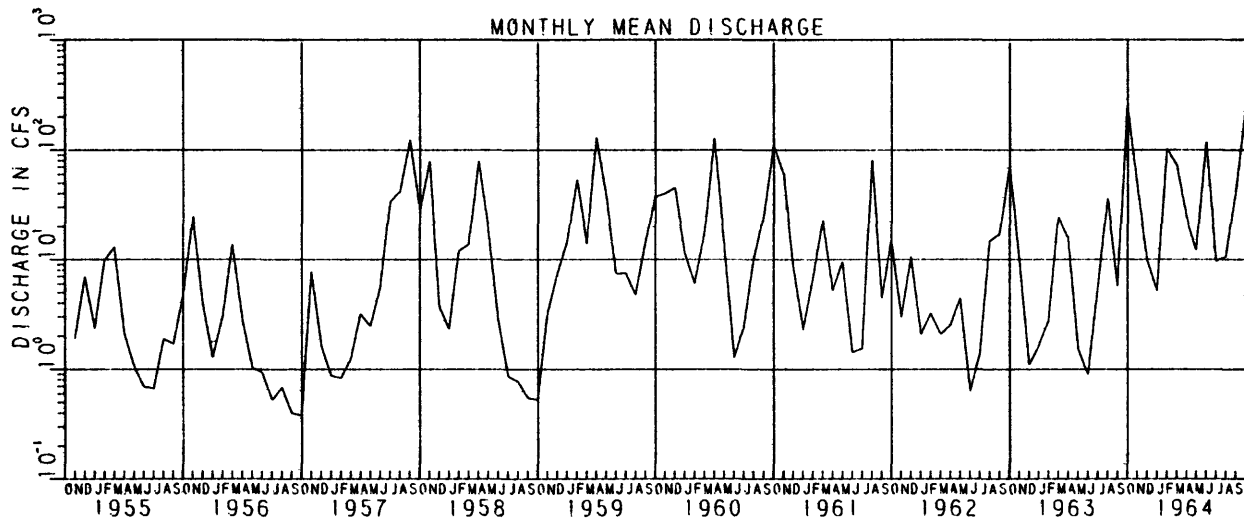
LOCATION.--Lat 29°49'40", long 81°20'57", in sec.11, T.8 S., R.29 E., St. Johns County, Hydrologic Unit 03080201, 0.4 mile (0.6 km) upstream from Fort Peyton Branch, 1.6 miles (2.6 km) downstream from bridge on State Highway 207, and 4.9 miles (7.9 km) southwest of St. Augustine.

DRAINAGE AREA.--23.3 mi<sup>2</sup> (60.4 km<sup>2</sup>).

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

AVERAGE DISCHARGE.--25 years, 23.9 ft<sup>3</sup>/s (0.68 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1450 ft<sup>3</sup>/s (41.1 m<sup>3</sup>/s) minimum discharge, 0.1 ft<sup>3</sup>/s (.003 m<sup>3</sup>/s) June 6, 7, 1958.



STATION NUMBER 02247000

DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	9132	100.0	12	4.6	432	4502	49.3	24	110.0	76	399	4.3
1	0.1	10	9132	100.0	13	6.0	474	4070	44.6	25	140.0	87	323	3.5
2	0.3	83	9122	99.9	14	7.8	387	3596	39.4	26	180.0	70	236	2.5
3	0.4	453	9039	99.0	15	10.0	396	3209	35.1	27	230.0	54	166	1.8
4	0.6	315	8586	94.0	16	13.0	435	2813	30.8	28	300.0	41	112	1.2
5	0.7	902	8271	90.6	17	17.0	349	2378	26.0	29	390.0	33	71	.7
6	1.0	393	7369	80.7	18	22.0	358	2029	22.2	30	510.0	21	38	.4
7	1.2	605	6976	76.4	19	29.0	264	1671	18.3	31	660.0	12	17	.1
8	1.6	471	6371	69.8	20	37.0	334	1407	15.4	32	860.0	3	5	
9	2.1	515	5900	64.6	21	49.0	291	1073	11.7	33	1100.0	2	2	
10	2.7	420	5385	59.0	22	63.0	245	782	8.6					
11	3.5	463	4965	54.4	23	82.0	138	537	5.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1.1	1.5	0.85	0.51	0.34	0.36	0.35	0.37	0.68	0.90	0.79	0.88

# ST. JOHNS RIVER

## COASTAL AREA BETWEEN ST. JOHNS RIVER AND PONCE DE LEON INLET

02247510 TOMOKA RIVER NEAR HOLLY HILL, FL

LOCATION.--Lat 29°13'02", long 81°06'32", in NW¼ sec.9, T.15 S., R.32 E., Volusia County, Hydrologic Unit 03080201, at bridge on 11th Street extension, 0.3 mi (0.5 km) southwest of Interstate Highway 95, 2 mi (3 km) upstream from Priest Branch, 4.5 mi (7.2 km) southwest of Holly Hill, and 12 mi (19 km) upstream from mouth.

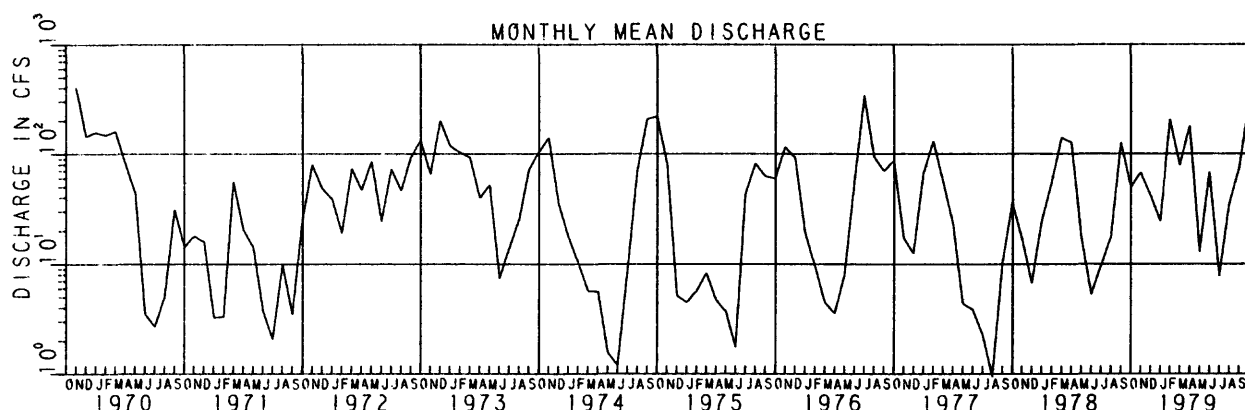
DRAINAGE AREA.--76.8 mi<sup>2</sup> (198.9 km<sup>2</sup>).

PERIOD OF RECORD.--October 1964 to September 1979.

AVERAGE DISCHARGE.--14 years, 58.4 ft<sup>3</sup>/s (1.654 m<sup>3</sup>/s), 10.33 in/yr (262 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft<sup>3</sup>/s (59.5 m<sup>3</sup>/s) Oct. 19, 1968; no flow for part or all of Feb. 16, 20-26, Feb. 28 to Mar. 1, 1968 (creek dry at gage), caused by temporary earthen dam just upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 11, 1964, had a discharge, of 2,170 ft<sup>3</sup>/s (61.5 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	2	5113	100.00	12	1.3	109	4853	94.91	24	60.0	384	1550	30.31
1	0.04	1	5111	99.96	13	1.8	112	4744	92.78	25	82.0	318	1166	22.80
2	0.08	0	5110	99.94	14	2.5	258	4632	90.59	26	110.0	353	848	16.59
3	0.08	1	5110	99.94	15	3.4	299	4374	85.55	27	160.0	197	495	9.68
4	0.10	2	5109	99.92	16	4.7	296	4075	79.70	28	210.0	127	298	5.83
5	0.14	2	5107	99.88	17	6.5	226	3779	73.91	29	290.0	77	171	3.34
6	0.20	4	5105	99.84	18	8.9	256	3553	69.49	30	400.0	50	94	1.84
7	0.27	24	5101	99.77	19	12.0	344	3297	64.48	31	550.0	24	44	0.86
8	0.37	43	5077	99.30	20	17.0	341	2953	57.75	32	760.0	11	20	0.39
9	0.51	22	5034	98.45	21	23.0	358	2612	51.09	33	1000.0	7	9	0.18
10	0.70	60	5012	98.02	22	32.0	339	2254	44.08	34	1400.0	2	2	0.04
11	0.96	99	4452	96.45	23	44.0	365	1915	37.45					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3.1	3.0	2.6	0.55	0.49	0.69	1.3	3.2	4.7	6.1	3.6	3.7

## ST. JOHNS RIVER

## COASTAL AREA BETWEEN ST. JOHNS RIVER AND PONCE DE LEON INLET

02248000 SPRUCE CREEK NEAR SAMSULA, FL

LOCATION.--Lat 29°03'01", long 81°02'49", in SE¼ sec.1, T.17 S., R.32 E., Volusia County, Hydrologic Unit 03080201, 50 ft (15 m) downstream from bridge on State Highway 40A, 1.8 mi (2.9 km) north of Samsula, 8 mi (13 km) west of New Smyrna, 10 mi (16 km) upstream from Turnbull Bay, and 13 mi (21 km) upstream from mouth.

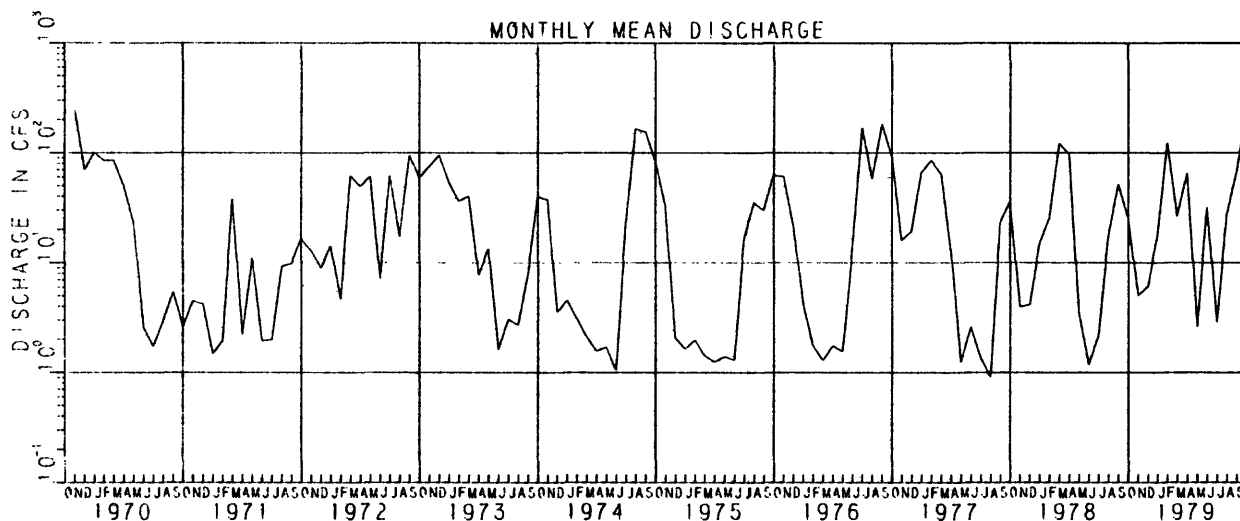
DRAINAGE AREA.--33.4 mi<sup>2</sup> (86.5 km<sup>2</sup>).

PERIOD OF RECORD.--May 1951 to September 1979.

REMARKS.--Some diversions for irrigation above station.

AVERAGE DISCHARGE.--28 years, 33.5 ft<sup>3</sup>/s (0.946 m<sup>3</sup>/s), 13.62 in/yr (339 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,610 ft<sup>3</sup>/s (45.6 m<sup>3</sup>/s) Sept. 10, 1964; no flow Apr. 23-26, May 17, 1962.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	5	9862	100.0	12	3.9	584	5941	60.2	24	120.0	166	725	7.3
1	0.1	27	9857	99.9	13	5.2	528	5357	54.3	25	150.0	206	559	5.6
2	0.2	60	9830	99.7	14	6.9	477	4829	49.0	26	210.0	130	353	3.5
3	0.3	59	9770	99.1	15	9.2	378	4352	44.1	27	270.0	121	223	2.2
4	0.4	242	9711	98.5	16	12.0	572	3974	40.3	28	360.0	71	102	1.0
5	0.5	328	9469	96.0	17	16.0	510	3402	34.5	29	480.0	22	31	.3
6	0.7	426	9141	92.7	18	21.0	484	2892	29.3	30	640.0	6	9	
7	1.0	447	8715	88.4	19	28.0	470	2408	24.4	31	840.0	1	3	
8	1.3	655	8268	83.8	20	38.0	331	1938	19.7	32	1100.0	2	2	
9	1.7	542	7613	77.2	21	50.0	310	1607	16.3					
10	2.2	529	7071	71.7	22	66.0	282	1297	13.2					
11	3.0	601	6542	66.3	23	88.0	290	1015	10.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.84	0.97	0.73	0.32	0.23	0.28	0.49	0.91	1.2	2.0	1.2	0.88

## ST. JOHNS RIVER

## COASTAL AREA BETWEEN PONCE DE LEON INLET AND SEBASTIAN INLET

02249500 CRANE CREEK AT MELBOURNE, FL

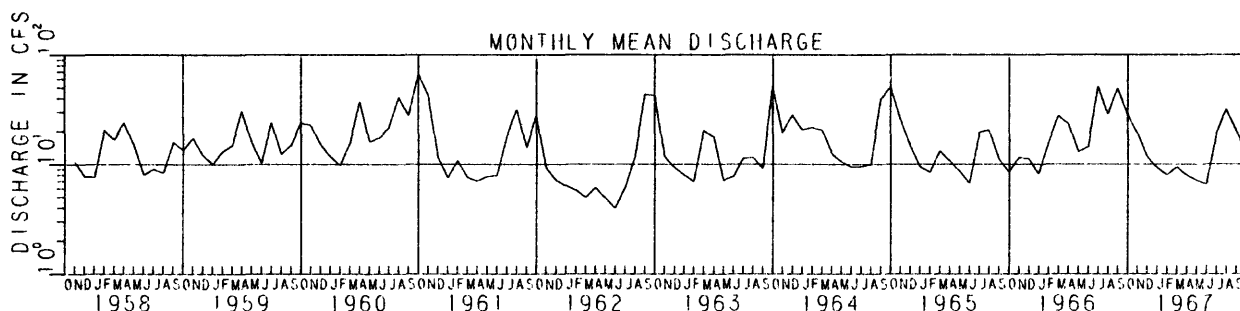
LOCATION.--Lat 28°04'42", long 80°37'48", in sec.4, T.28 S., R.37 E., Brevard County, Hydrologic Unit 03080202, at bridge on U.S. Highway 192, 1.5 miles (2.4 km) west of the city hall in Melbourne and 2.5 (4.0 km) miles upstream from Indian River.

DRAINAGE AREA.--12.6 mi<sup>2</sup> (32.6 km<sup>2</sup>).

PERIOD OF RECORD.--March 1951 to June 1968.

AVERAGE DISCHARGE.--16 years (water years 1952-67), 15.9 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/s), 11,510 acre-ft/yr (14.3hm /s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 665 ft<sup>3</sup>/s (18.8 m<sup>3</sup>/s) Oct. 16, 1956; minimum, 1.8 ft<sup>3</sup>/s (0.05 m<sup>3</sup>/s) June 25, 26, 27, 28, 1951.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5844	100.0	12	10.0	474	2819	48.2	24	66.0	56	172	2.9
1	1.7	0	5844	100.0	13	12.0	494	2345	40.1	25	78.0	38	116	1.9
2	2.1	2	5844	100.0	14	14.0	312	1851	31.7	26	91.0	25	78	1.3
3	2.5	16	5842	100.0	15	16.0	304	1539	26.3	27	110.0	10	53	.9
4	2.9	29	5826	99.7	16	19.0	239	1235	21.1	28	120.0	20	43	.7
5	3.4	40	5797	99.2	17	22.0	227	996	17.0	29	150.0	6	23	.3
6	3.9	100	5757	98.5	18	26.0	156	769	13.2	30	170.0	8	17	.2
7	4.6	340	5657	96.8	19	30.0	140	613	10.5	31	200.0	2	9	.1
8	5.4	499	5317	91.0	20	35.0	101	473	8.1	32	230.0	4	7	.1
9	6.3	650	4818	82.4	21	41.0	76	372	6.4	33	270.0	2	3	
10	7.4	736	4168	71.3	22	48.0	79	296	5.1	34	320.0	1	1	
11	8.6	613	3432	58.7	23	57.0	45	217	3.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
5.4	5.1	4.9	4.2	4.0	2.9	4.1	4.4	5.3	7.4	6.0	5.7

## ST. JOHNS RIVER

## COASTAL AREA BETWEEN PONCE DE LEON INLET AND SEBASTIAN INLET

02250000 TURKEY CREEK NEAR PALM BAY, FL

LOCATION.--Lat 28°00'46", long 80°36'28", in SE¼ sec.27, T.28 S., R.37 E., Brevard County, Hydrologic Unit 03080202, 500 ft (152 m) upstream from power line crossing, 2.2 miles (3.5 km) southwest of Palm Bay, Brevard County, 2.6 miles (4.2 km) upstream from Indian River, and 4.5 miles (7.2 km) south of Melbourne.

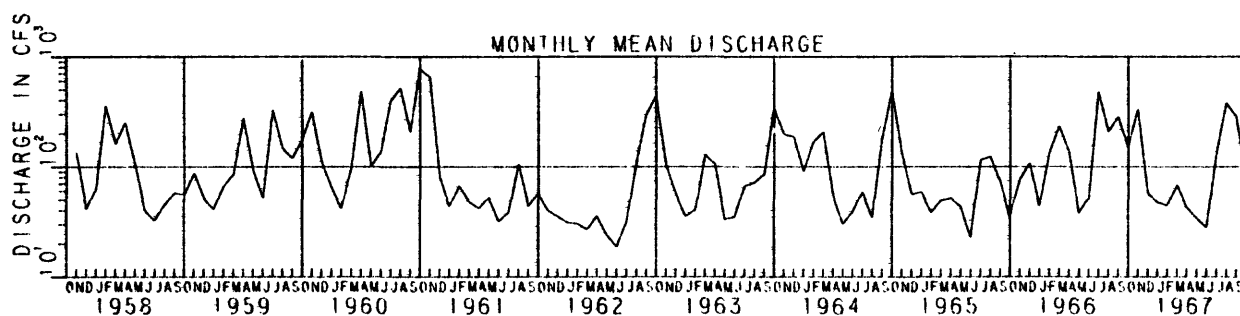
DRAINAGE AREA.--95.5 mi<sup>2</sup> (247 km<sup>2</sup>).

PERIOD OF RECORD.--January 1956 to June 1968.

REMARKS.--Stage-discharge relation affected by tide on some days. An undetermined amount of water is diverted into the St. Johns River by pumps in the Melbourne-Tillman drainage district.

AVERAGE DISCHARGE.--11 years (water years 1957-67), 137 ft<sup>3</sup>/s (3.88 m<sup>3</sup>/s) 99,180 acre-ft/yr (122 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft<sup>3</sup>/s (79.0 m<sup>3</sup>/s) Oct. 16, 1956; minimum daily, 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) May 27, 1962.



## DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	4017	100.0	12	76.0	219	1695	42.2	24	450.0	32	260	6.4
1	15.0	7	4017	100.0	13	88.0	170	1476	36.7	25	520.0	36	228	5.6
2	17.0	43	4010	99.8	14	100.0	211	1306	32.5	26	600.0	48	192	4.7
3	20.0	36	3967	98.8	15	120.0	176	1095	27.3	27	700.0	39	144	3.5
4	23.0	110	3931	97.9	16	140.0	133	919	22.9	28	810.0	26	105	2.6
5	27.0	235	3821	95.1	17	160.0	122	786	19.6	29	940.0	34	79	1.9
6	31.0	299	3586	89.3	18	190.0	76	664	16.5	30	1100.0	23	45	1.1
7	36.0	409	3287	81.8	19	210.0	107	588	14.6	31	1300.0	12	22	.5
8	42.0	406	2878	71.6	20	250.0	64	481	12.0	32	1500.0	7	10	.2
9	49.0	319	2472	61.5	21	290.0	53	417	10.4	33	1700.0	2	3	
10	57.0	251	2153	53.6	22	330.0	59	364	9.1	34	2000.0	1	1	
11	66.0	207	1902	47.3	23	390.0	45	305	7.6					

## MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
27	29	28	21	19	21	28	28	30	37	31	29

ST. JOHNS RIVER  
COASTAL AREA SEBASTIAN INLET TO ST. LUCIE RIVER  
02251765 FELLSMERE CANAL NEAR FELLSMERE, FL

LOCATION.--Lat 27°49'18", long 80°36'27", in NW¼ sec.2, T.31 S., R.37 E., Indian River County, at bridge on State Highway 507, 3.3 miles (5.3 km) north of Fellsmere, and 5.8 miles (9.3 km) upstream from mouth.

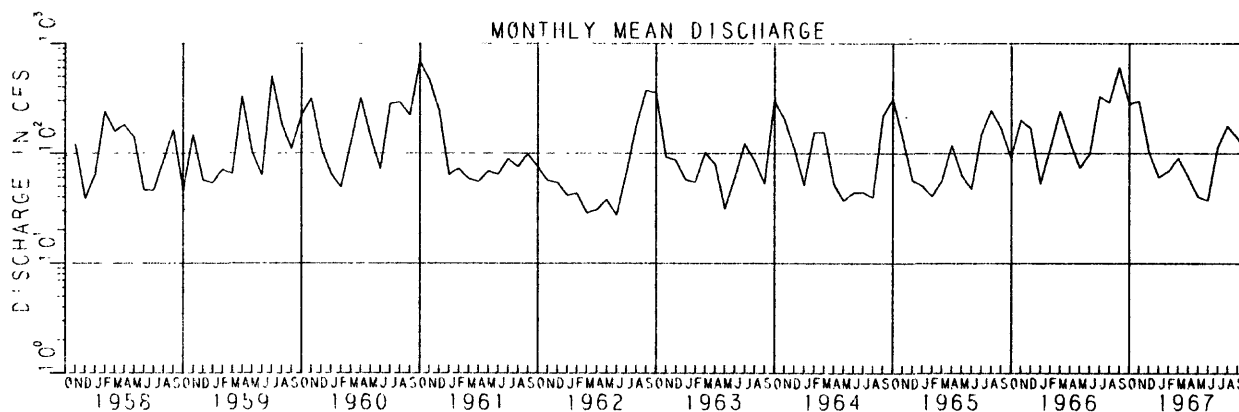
DRAINAGE AREA.--78.4 mi<sup>2</sup> (203 km<sup>2</sup>).

PERIOD OF RECORD.--February 1955 to June 1968.

REMARKS.--Records include undetermined amount of flow diverted from Blue Cypress Lake for irrigation. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--12 years (water years 1956-67), 136 ft<sup>3</sup>/s (3.85 m<sup>3</sup>/s) 98,460 acre-ft/yr (121 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft<sup>3</sup>/s (53.2 m<sup>3</sup>/s) Oct. 16, 1956; minimum, 18 ft<sup>3</sup>/s (0.51 m<sup>3</sup>/s) June 6, 1962.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	4383	100.0	12	88.0	205	1863	42.5	24	450.0	34	214	4.8
1	20.0	18	4383	100.0	13	100.0	341	1658	37.8	25	510.0	33	180	4.1
2	23.0	29	4365	99.6	14	120.0	119	1317	30.0	26	590.0	30	147	3.3
3	26.0	78	4336	98.9	15	130.0	200	1198	27.3	27	670.0	23	117	2.6
4	30.0	101	4258	97.1	16	150.0	155	998	22.8	28	770.0	22	94	2.1
5	34.0	297	4157	94.8	17	170.0	152	843	19.2	29	880.0	18	72	1.6
6	39.0	384	3860	88.1	18	200.0	125	691	15.8	30	1000.0	18	54	1.2
7	45.0	405	3476	79.3	19	230.0	79	566	12.9	31	1200.0	14	36	.8
8	52.0	369	3071	70.1	20	260.0	85	487	11.1	32	1300.0	12	22	.5
9	59.0	362	2702	61.6	21	300.0	76	402	9.2	33	1500.0	8	10	.2
10	68.0	231	2340	53.4	22	340.0	57	326	7.4	34	1700.0	2	2	
11	77.0	246	2109	48.1	23	390.0	55	269	6.1					

ST. JOHNS RIVER  
COASTAL AREA SEBASTIAN INLET TO ST. LUCIE RIVER  
02252500 NORTH CANAL NEAR VERO BEACH, FL

LOCATION.--Lat 27°41'32", long 80°25'00", in SE¼ sec.15, T.32 S., R.39 E., Indian River County, Hydrologic Unit 03080203, upstream from bridge on State Highway 605, and 3.9 mi (6.3 km) north of Vero Beach.

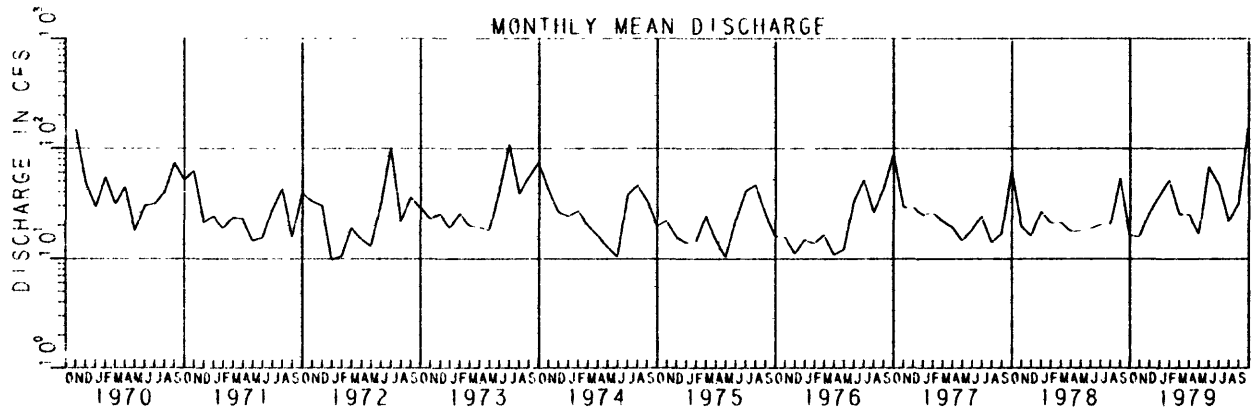
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1950 to September 1979.

REMARKS.--Considerable pumping into canal for drainage above station. Since Sept. 7, 1954, low flow regulated by control structure 2 mi (3 km) upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--28 years (water years 1951-79), 30.9 ft<sup>3</sup>/s (0.875 m<sup>3</sup>/s), 22,390 acre-ft/yr (27.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft<sup>3</sup>/s (50.7 m<sup>3</sup>/s) Sept. 23, 1960; no flow part of each day Mar. 7, 8, 1969.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	9862	100.0	12	8.2	970	7933	80.4	24	140.0	100	311	3.1
1	0.5	1	9862	100.0	13	10.0	1316	6963	70.6	25	180.0	65	211	2.1
2	0.8	0	9861	100.0	14	13.0	1441	5647	57.3	26	230.0	47	146	1.4
3	1.0	0	9861	100.0	15	17.0	1120	4206	42.6	27	290.0	29	99	1.0
4	1.2	1	9861	100.0	16	21.0	850	3086	31.3	28	370.0	25	70	.7
5	1.6	0	9860	100.0	17	27.0	423	2236	22.7	29	470.0	19	45	.4
6	2.0	3	9860	100.0	18	34.0	382	1813	18.4	30	590.0	8	26	.2
7	2.5	20	9857	99.9	19	43.0	311	1431	14.5	31	750.0	12	18	.1
8	3.2	63	9837	99.7	20	55.0	277	1120	11.4	32	960.0	3	6	
9	4.0	309	9774	99.1	21	70.0	249	843	8.5	33	1200.0	1	3	
10	5.1	519	9465	96.0	22	89.0	162	594	6.0	34	1500.0	2	2	
11	6.5	1013	8946	90.7	23	110.0	121	432	4.4					

ST. JOHNS RIVER  
COASTAL AREA SEBASTIAN INLET TO ST. LUCIE RIVER  
02253000 MAIN CANAL AT VERO BEACH, FL

LOCATION.--Lat 27°38'54", long 80°24'10", in SE¼ sec.35, T.32 S., R.39 E., Indian River County, Hydrologic Unit 03080203, 8 ft (2 m) upstream from dam, 700 ft (210 m) upstream from U.S. Highway 1, and 0.6 mi (1.0 km) northwest of Vero Beach.

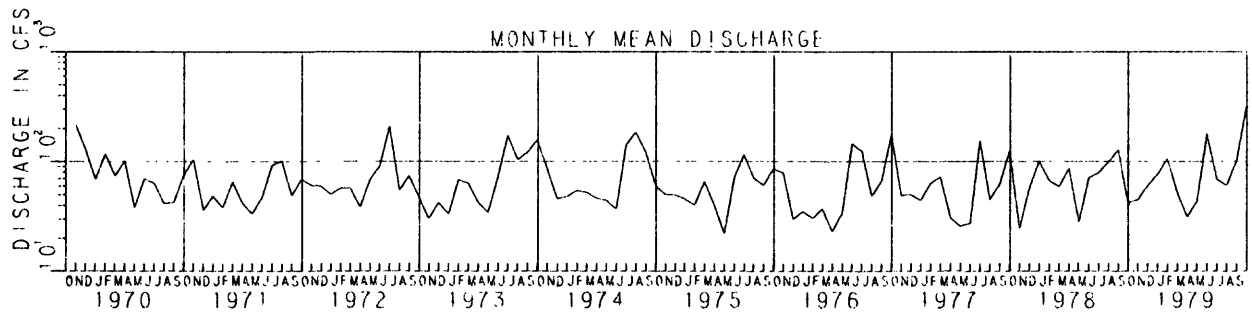
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1949 to September 1979.

REMARKS.--Considerable pumping into canal for drainage above station. Since Aug. 6, 1954, low flow regulated by control structure 1.5 mi (2.4 km) upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--30 years, 78.2 ft<sup>3</sup>/s (2.215 m<sup>3</sup>/s), 56,660 acre-ft/yr (69.9 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft<sup>3</sup>/s (53.8 m<sup>3</sup>/s) Sept. 23, 1960; no flow May 25, and part of each day Nov. 27,28, 1977, June 9, 1978.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	1	10592	100.0	12	4.8	166	10448	98.6	24	120.0	610	1572	14.8
1	0.2	1	10591	100.0	13	6.3	132	10282	97.1	25	160.0	349	962	9.0
2	0.3	0	10590	100.0	14	8.2	151	10150	95.8	26	210.0	216	613	5.7
3	0.4	7	10590	100.0	15	11.0	207	9999	94.4	27	270.0	161	397	3.7
4	0.6	0	10583	99.9	16	14.0	263	9792	92.4	28	360.0	91	236	2.2
5	0.7	8	10583	99.9	17	18.0	760	9529	90.0	29	470.0	71	145	1.3
6	1.0	3	10575	99.8	18	24.0	1330	8769	82.8	30	610.0	35	74	.6
7	1.3	8	10572	99.8	19	32.0	1153	7439	70.2	31	800.0	13	39	.3
8	1.6	16	10564	99.7	20	41.0	1244	6286	59.3	32	1000.0	19	26	.2
9	2.1	9	10548	99.6	21	54.0	1565	5042	47.6	33	1400.0	6	7	
10	2.8	29	10539	99.5	22	71.0	1148	3477	32.8	34	1800.0	1	1	
11	3.7	62	10510	99.2	23	93.0	757	2329	22.0					

ST. JOHNS RIVER  
COASTAL AREA SEBASTIAN INLET TO ST. LUCIE RIVER  
02253500 SOUTH CANAL NEAR VERO BEACH, FL

LOCATION.--Lat 27°36'11", long 80°23'24", in SW¼ sec.13, T.33 S., T.39 E., Indian River County, Hydrologic Unit 03080203, 1,000 ft (300 m) upstream from bridge on State Highway 605, and 2.5 mi (4.0 km) south of Vero Beach.

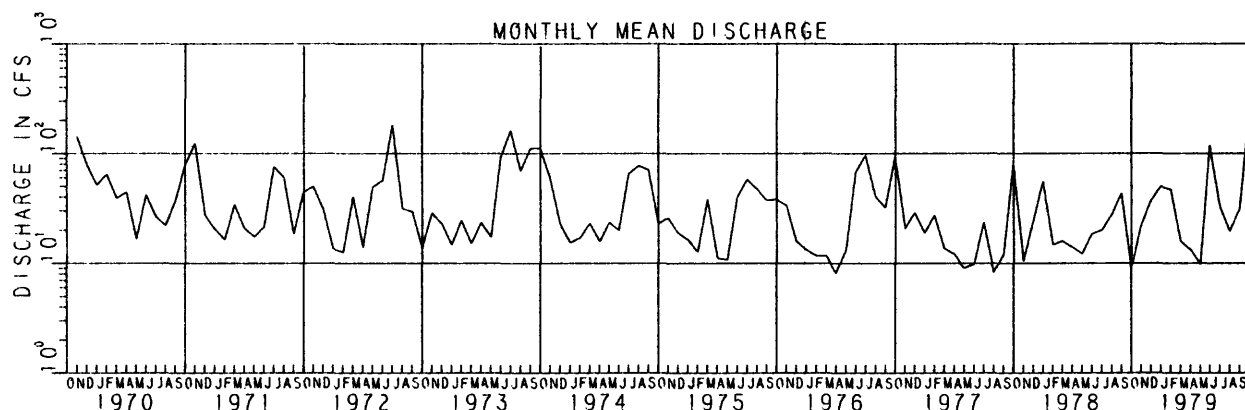
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1950 to September 1979.

REMARKS.--Considerable pumping into canal for drainage above station. Since Jan. 6, 1956, low flow regulated by control structure upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--29 years, 39.9 ft³/s (1.13 m³/s), 28,910 acre-ft/yr (35.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,930 ft³/s (54.7 m³/s) Sept. 24, 1963; minimum discharge, 0.43 ft³/s (0.012 m³/s) May 24, 1978.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	10227	100.0	12	7.5	1071	8297	81.1	24	130.0	169	544	5.3
1	0.5	6	10227	100.0	13	9.6	830	7226	70.7	25	170.0	94	375	3.6
2	0.7	1	10221	99.9	14	12.0	890	6396	62.5	26	210.0	94	281	2.7
3	0.9	0	10220	99.9	15	15.0	1082	5506	53.8	27	270.0	74	187	1.8
4	1.1	2	10220	99.9	16	20.0	767	4424	43.3	28	350.0	50	113	1.1
5	1.4	12	10218	99.9	17	25.0	670	3657	35.8	29	440.0	23	63	.6
6	1.8	18	10206	99.8	18	32.0	572	2987	29.2	30	560.0	16	40	.3
7	2.3	30	10188	99.6	19	40.0	597	2415	23.6	31	710.0	9	24	.2
8	2.9	102	10158	99.3	20	51.0	461	1818	17.8	32	900.0	10	15	.1
9	3.7	293	10056	98.3	21	65.0	350	1357	13.3	33	1100.0	4	5	
10	4.7	559	9763	95.5	22	82.0	219	1007	9.8	34	1500.0	1	1	
11	5.9	907	9204	90.0	23	100.0	244	788	7.7					

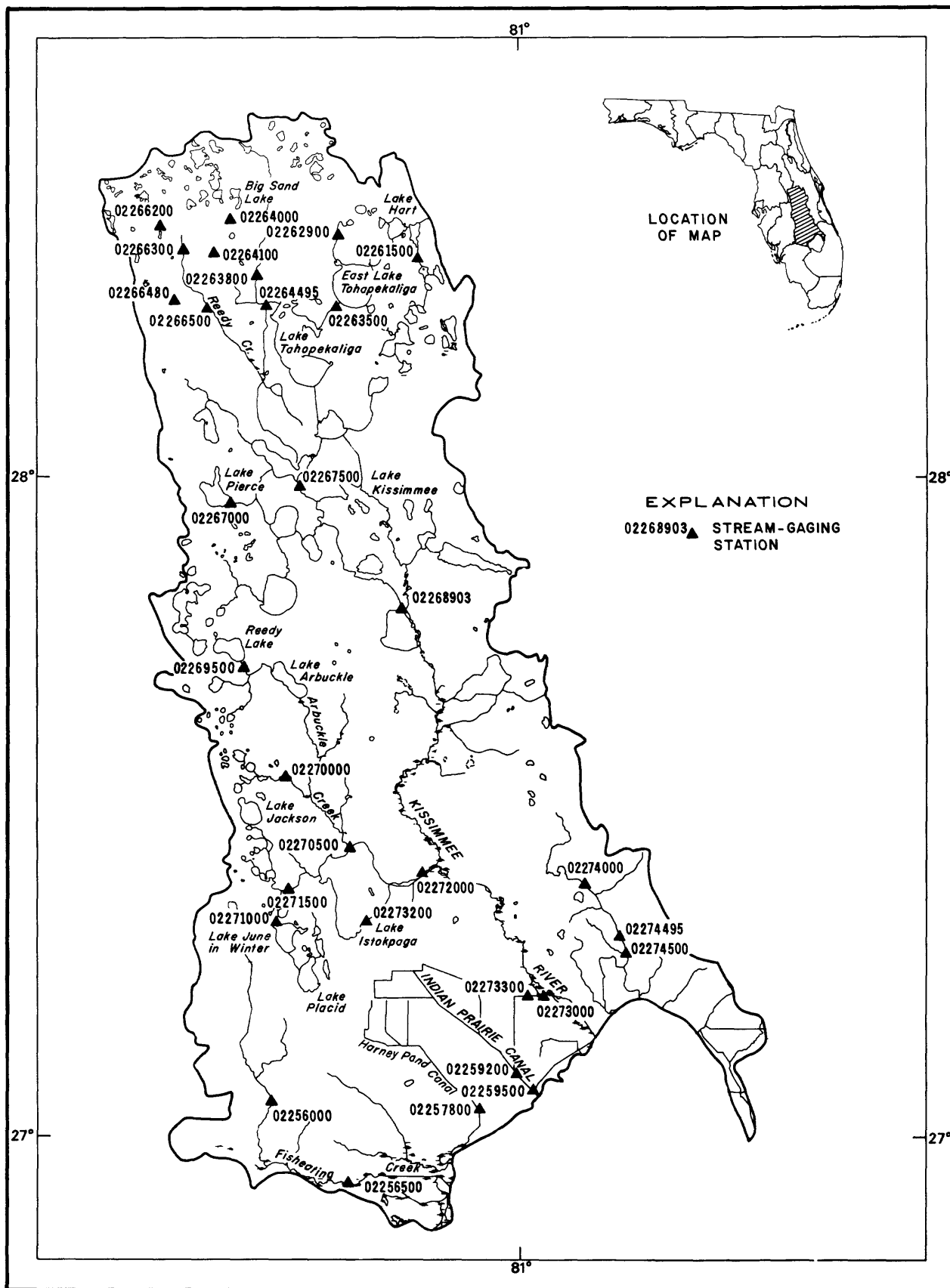


Figure 7. --Stations in the Kissimmee River, Taylor Creek, and Fisheating Creek basins.

SOUTH FLORIDA

FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM THE NORTHWEST

02256000 FISHEATING CREEK NEAR VENUS, FL

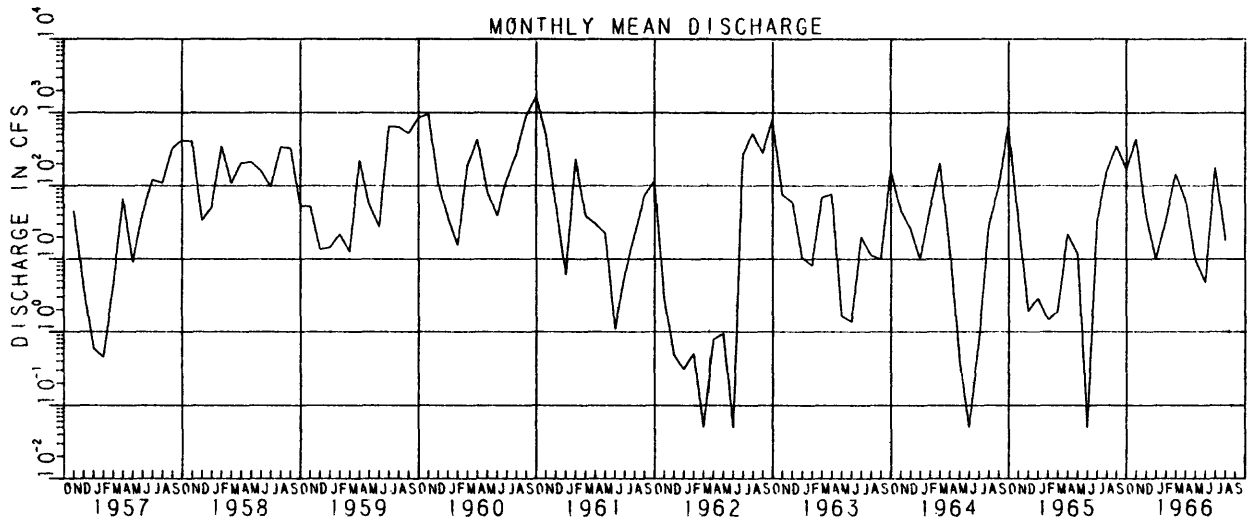
LOCATION.--Lat 27°03'43", long 81°25'38", on line between secs. 21 and 28, T.39 S., R.29 E., Highlands County, Hydrologic Unit 03090103, at bridge on State Highway 731, 2.6 miles (4.2 km) downstream from Bootheel Creek, 4.5 miles (6.8 km) west of Venus.

DRAINAGE AREA.--188 mi<sup>2</sup> (487 km<sup>2</sup>).

PERIOD OF RECORD.--February 1955 to June 1966.

AVERAGE DISCHARGE.--10 years (water years 1956-65), 140 ft<sup>3</sup>/s (3.96 m<sup>3</sup>/s) 101,400 acre-ft/yr (125 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,120 ft<sup>3</sup>/s (145 m<sup>3</sup>/s) June 18, 1959; no flow at times in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	395	3653	100.0	12	4.9	114	2434	66.6	24	240.0	115	507	13.8
1	0.1	61	3258	89.2	13	6.7	164	2320	63.5	25	330.0	98	392	10.7
2	0.2	64	3197	87.5	14	9.3	166	2156	59.0	26	450.0	78	294	8.0
3	0.3	48	3133	85.8	15	13.0	154	1990	54.5	27	620.0	60	216	5.9
4	0.4	42	3085	84.5	16	18.0	138	1836	50.3	28	860.0	59	156	4.2
5	0.5	76	3043	83.3	17	24.0	210	1698	46.5	29	1200.0	44	97	2.6
6	0.7	105	2967	81.2	18	34.0	179	1488	40.7	30	1600.0	35	53	1.4
7	1.0	93	2862	78.3	19	47.0	157	1309	35.8	31	2300.0	11	18	.4
8	1.3	90	2769	75.8	20	65.0	174	1152	31.5	32	3100.0	5	7	.1
9	1.8	79	2679	73.3	21	89.0	143	978	26.8	33	4300.0	2	2	
10	2.5	73	2600	71.2	22	120.0	178	835	22.9					
11	3.5	93	2527	69.2	23	170.0	150	657	18.0					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	4.2	1.0	0.08	0.0

## SOUTH FLORIDA

## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02256500 FISHEATING CREEK AT PALMDALE, FL

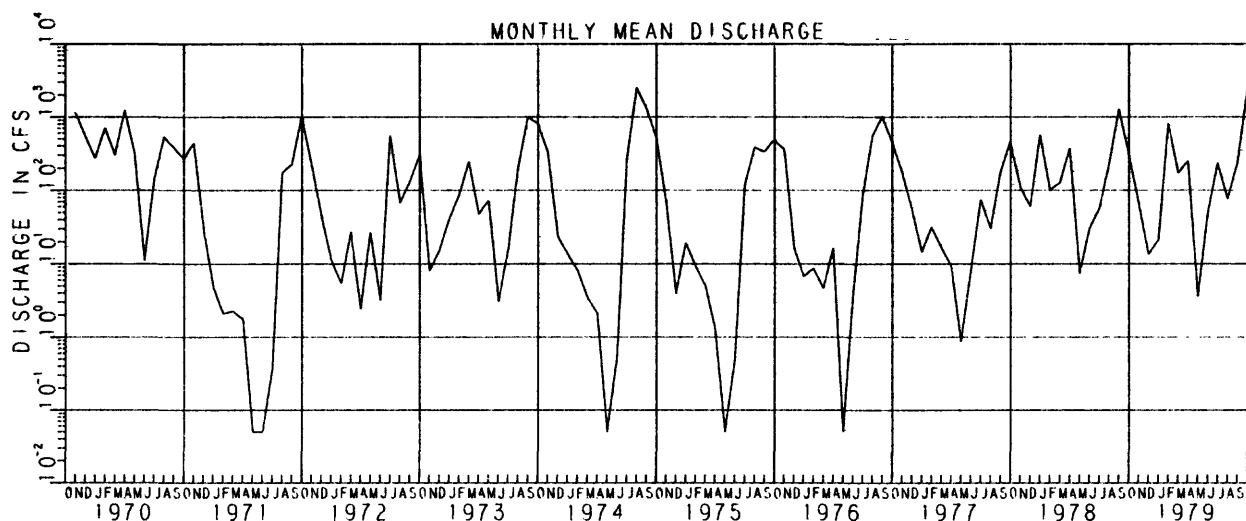
LOCATION.--Lat 26°55'56", long 81°18'54", in SW¼ sec.3, T.41 S., R.30 E., Glades County, Hydrologic Unit 03090103, at bridge on U.S. Highway 27, 1.0 mi (1.6 km) south of Palmdale, and 16 mi (26 km) upstream from Lake Okeechobee.

DRAINAGE AREA.--311 mi<sup>2</sup> (805 km<sup>2</sup>).

PERIOD OF RECORD.--April 1931 to September 1979.

AVERAGE DISCHARGE.--48 years, 259 ft<sup>3</sup>/s (7.335 m<sup>3</sup>/s), 11.31 in/yr (287 mm/yr), 187,600 acre-ft/yr (231 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,400 ft<sup>3</sup>/s (889 m<sup>3</sup>/s) Oct. 3, 1951; no flow at times in most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	2045	17532	100.00	12	2.1	472	13705	75.15	24	440.0	962	2779	15.45
1	0.01	4	15487	88.34	13	3.3	591	13234	75.48	25	650.0	812	1817	10.36
2	0.02	9	15453	88.31	14	5.1	641	12643	72.11	26	1100.0	523	1005	5.73
3	0.04	2	15474	88.26	15	8.0	603	12002	68.46	27	1700.0	263	482	2.75
4	0.06	8	15472	88.25	16	12.0	888	11399	65.02	28	2600.0	142	219	1.25
5	0.09	183	15464	88.20	17	19.0	967	10511	59.95	29	4000.0	55	77	0.44
6	0.15	137	15281	87.16	18	30.0	939	9544	54.44	30	6300.0	14	22	0.13
7	0.23	124	15144	86.38	19	47.0	1092	8505	49.08	31	9900.0	6	8	0.05
8	0.35	247	15020	85.67	20	74.0	1117	7513	42.85	32	15000.0	0	2	0.01
9	0.55	345	14773	84.26	21	110.0	1315	6396	36.48	33	24000.0	2	2	0.01
10	0.86	306	14428	82.30	22	180.0	1148	5081	28.98					
11	1.3	416	14122	80.55	23	280.0	1154	3933	22.43					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.50	0.16	0.00	0.00	0.00	0.00	0.06	6.4	49	10	1.7	0.63

## SOUTH FLORIDA

## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02257800 HARNEY POND CANAL AT S-71, NEAR LAKEPORT, FL

LOCATION.--Lat 27°02'00", long 81°04'15", in NE¼ sec.1, T.40 S., R.32 E., Glades County, Hydrologic Unit 03090103, 220 ft (67 m) upstream from control structure 71, 0.1 mi (0.2 km) west of State Highway 721, 2.3 mi (3.7 km) upstream from bridge on State Highway 78, and 5.2 mi (8.4 km) northeast of Lakeport.

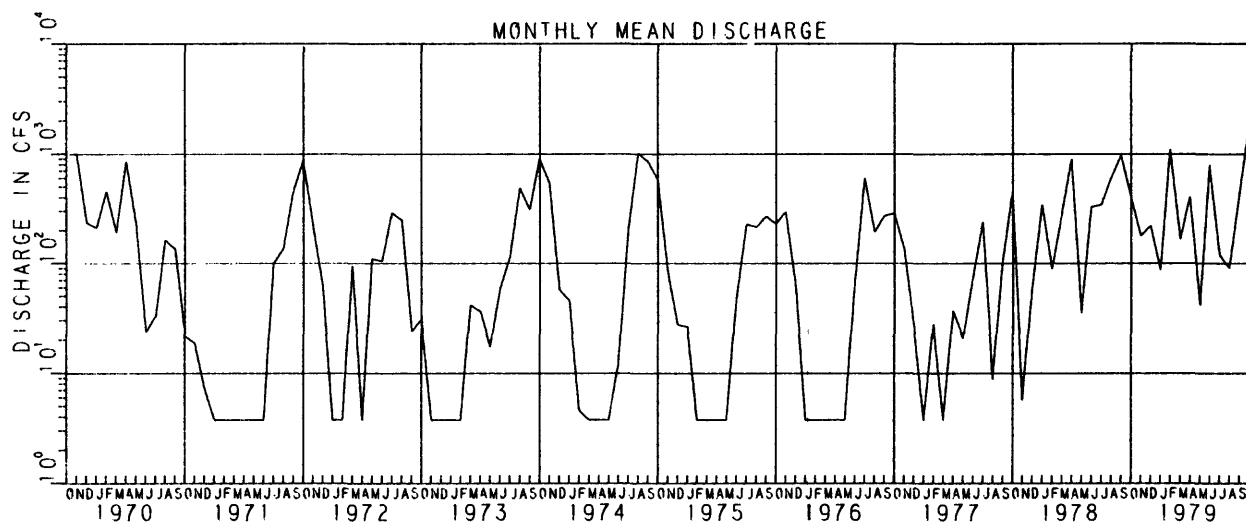
RAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1962 to September 1979.

REMARKS.--Flow regulated by operation of structure 71, by storage releases upstream at structures 68 and 70 and several small diversions for irrigation of land both upstream and downstream of gage. Flow may be diverted to Indian Prairie Canal by the combined operation of structures 70 and 75 upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--17 years, 211 ft<sup>3</sup>/s (5.976 m<sup>3</sup>/s), 152,900 acre-ft/yr (189 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,670 ft<sup>3</sup>/s (132 m<sup>3</sup>/s) Mar. 27, 1970; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	3535	6209	100.0	12	5.6	0	2666	42.9	24	210.0	331	1774	28.5
1	0.1	1	2674	43.1	13	7.6	3	2666	42.9	25	290.0	264	1443	23.2
2	0.3	0	2673	43.1	14	10.0	10	2663	42.9	26	390.0	289	1179	18.9
3	0.4	0	2673	43.1	15	14.0	8	2653	42.7	27	530.0	351	890	14.3
4	0.5	0	2673	43.1	16	19.0	21	2645	42.6	28	710.0	205	539	8.6
5	0.7	0	2673	43.1	17	25.0	17	2624	42.3	29	970.0	135	334	5.3
6	0.9	1	2673	43.1	18	34.0	74	2607	42.0	30	1300.0	115	199	3.2
7	1.2	0	2672	43.0	19	47.0	55	2533	40.8	31	1800.0	57	84	1.3
8	1.7	2	2672	43.0	20	63.0	86	2478	39.9	32	2400.0	24	27	.4
9	2.3	0	2670	43.0	21	86.0	156	2392	38.5	33	3200.0	1	3	
10	3.1	1	2670	43.0	22	120.0	204	2236	36.0	34	4400.0	2	2	
11	4.1	3	2669	43.0	23	160.0	258	2032	32.7					

## SOUTH FLORIDA

## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02259200 INDIAN PRAIRIE CANAL AT S-72, NEAR OKEECHOBEE, FL

LOCATION.--Lat 27°05'35", long 81°00'25", in SE¼ sec.10, T.39 S., R.33 E., Glades County, Hydrologic Unit 03090103, 230 ft (70 m) upstream from control structure 72, 2.6 mi (4.2 km) upstream from bridge on State Highway 78, and 15 mi (24 km) southwest of Okeechobee.

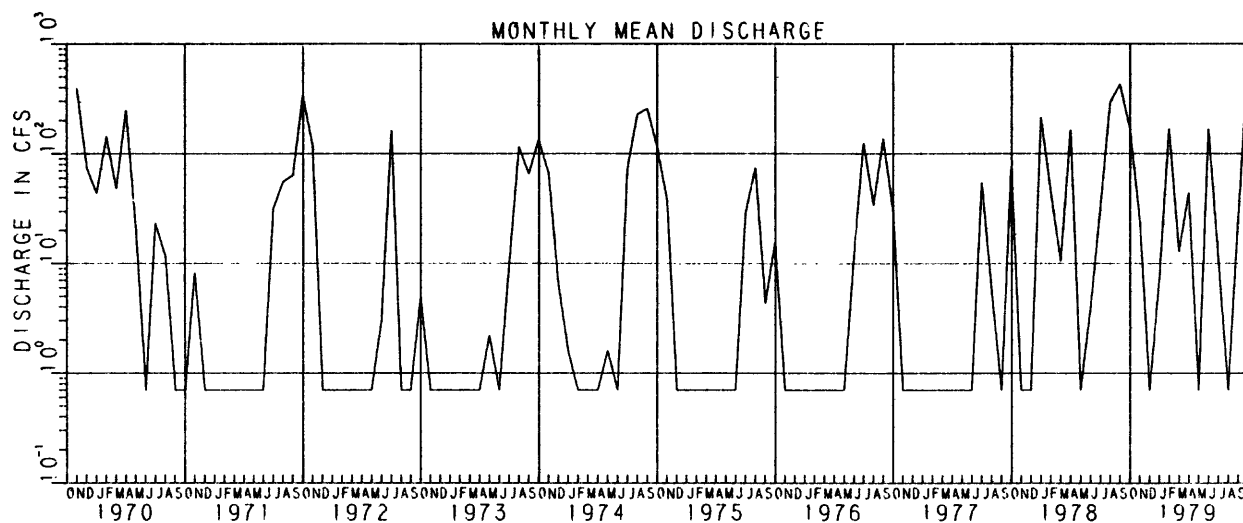
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1962 to September 1979.

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. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--17 years, 50.2 ft<sup>3</sup>/s (1.422 m<sup>3</sup>/s), 36,370 acre-ft/yr (44.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,130 ft<sup>3</sup>/s (60.3 m<sup>3</sup>/s) Oct. 3, 1969; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	4832	6209	100.0	12	11.0	10	1359	21.9	24	180.0	122	542	8.7
1	0.8	1	1377	22.2	13	14.0	5	1349	21.7	25	230.0	98	470	6.7
2	1.0	2	1376	22.2	14	17.0	11	1344	21.6	26	290.0	96	322	5.1
3	1.3	0	1374	22.1	15	22.0	8	1333	21.5	27	370.0	62	226	3.6
4	1.6	2	1374	22.1	16	28.0	15	1325	21.3	28	470.0	61	164	2.6
5	2.1	0	1372	22.1	17	35.0	29	1310	21.1	29	600.0	36	103	1.6
6	2.6	1	1372	22.1	18	44.0	53	1281	20.6	30	760.0	30	67	1.0
7	3.3	3	1371	22.1	19	56.0	98	1228	19.8	31	960.0	18	37	.5
8	4.2	0	1368	22.0	20	71.0	212	1130	18.2	32	1200.0	13	19	.3
9	5.3	5	1368	22.0	21	90.0	127	918	14.8	33	1500.0	5	6	
10	6.7	3	1363	22.0	22	110.0	117	791	12.7	34	2000.0	1	1	
11	8.5	1	1360	21.9	23	140.0	132	674	10.9					

## SOUTH FLORIDA

## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

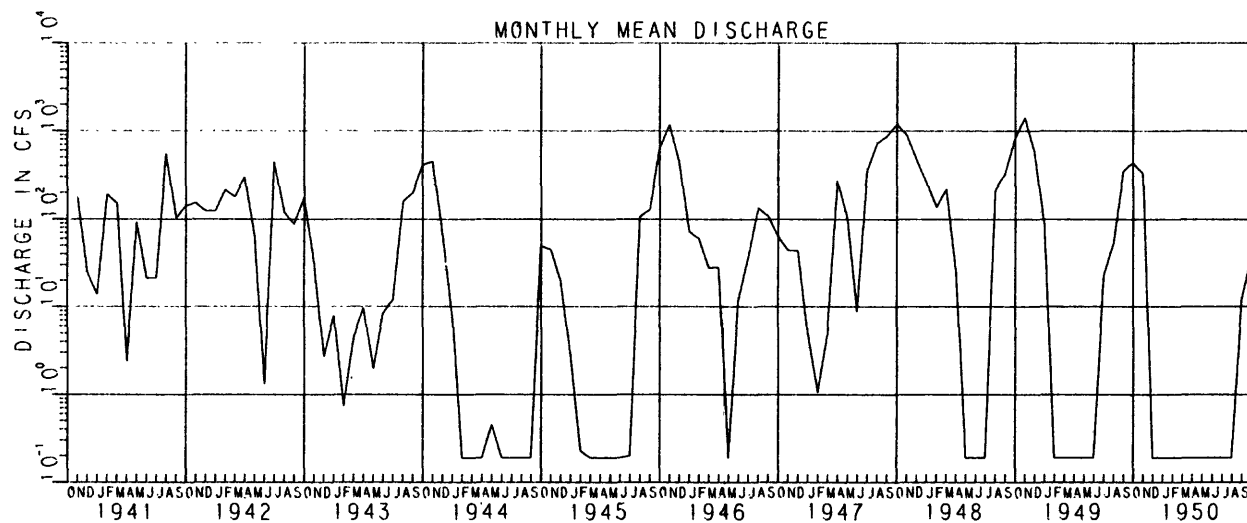
02259500 INDIAN PRAIRIE CANAL NEAR OKEECHOBEE, FL

LOCATION.--Water-stage recorder, lat 27°04'00", long 80°59'00", in sec.24, T.39 S., R.33 E., Glade County, Hydrologic Unit 03090103, at bridge on State Highway 78, 2 miles (3 km) upstream from shore of Lake Okeechobee corresponding to lake elevation of 12.5 ft (3.81 m) above mean sea level, and 15 miles (24 km) southwest of town of Okeechobee. Datum of gage is at mean sea level, unadjusted (levels by Corps of Engineers).

PERIOD OF RECORD.--June 1939 to December 1950.

REMARKS.--No low-flow data contained in Hughes (1981), or listed below.

EXTREMES FOR PERIOD OF RECORD.--1931-33, 1939-49: Maximum discharge 1,880 ft<sup>3</sup>/s (53.2 m<sup>3</sup>/s) Oct. 5, 1948, Aug. 28, 1949; no flow during several periods in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	1475	4018	100.0	12	4.7	36	2332	58.0	24	170.0	171	870	21.6
1	0.1	7	2543	63.3	13	6.4	52	2296	57.1	25	230.0	113	699	17.3
2	0.2	12	2536	63.1	14	8.6	75	2244	55.8	26	300.0	134	586	14.5
3	0.3	7	2524	62.8	15	12.0	78	2169	54.0	27	410.0	101	452	11.2
4	0.4	23	2517	62.6	16	16.0	85	2091	52.0	28	550.0	112	351	8.7
5	0.6	4	2494	62.1	17	21.0	95	2006	49.9	29	740.0	101	239	5.9
6	0.8	37	2490	62.0	18	28.0	168	1911	47.6	30	990.0	104	138	3.4
7	1.1	9	2453	61.1	19	38.0	212	1743	43.4	31	1300.0	30	34	.8
8	1.4	11	2444	60.8	20	51.0	155	1531	38.1	32	1800.0	4	4	
9	1.9	39	2433	60.6	21	69.0	168	1376	34.2					
10	2.6	23	2394	59.6	22	92.0	135	1208	30.1					
11	3.5	39	2371	59.0	23	120.0	203	1073	26.7					

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02261500 MYRTLE-MARY JANE CANAL NEAR NARCOOSSEE, FL

LOCATION.--Lat 28°20'22", long 81°10'27", in sec.1, T.25 S., R.31 E., Osceola County, Hydrologic unit 03090101, 400 ft (122 m) downstream from private bridge, 0.9 mile (1.4 km) upstream from Lake Mary Jane, 1.2 miles (1.9 km) downstream from Lake Myrtle, and 4.9 miles (7.9 km) northeast of Nacoossee.

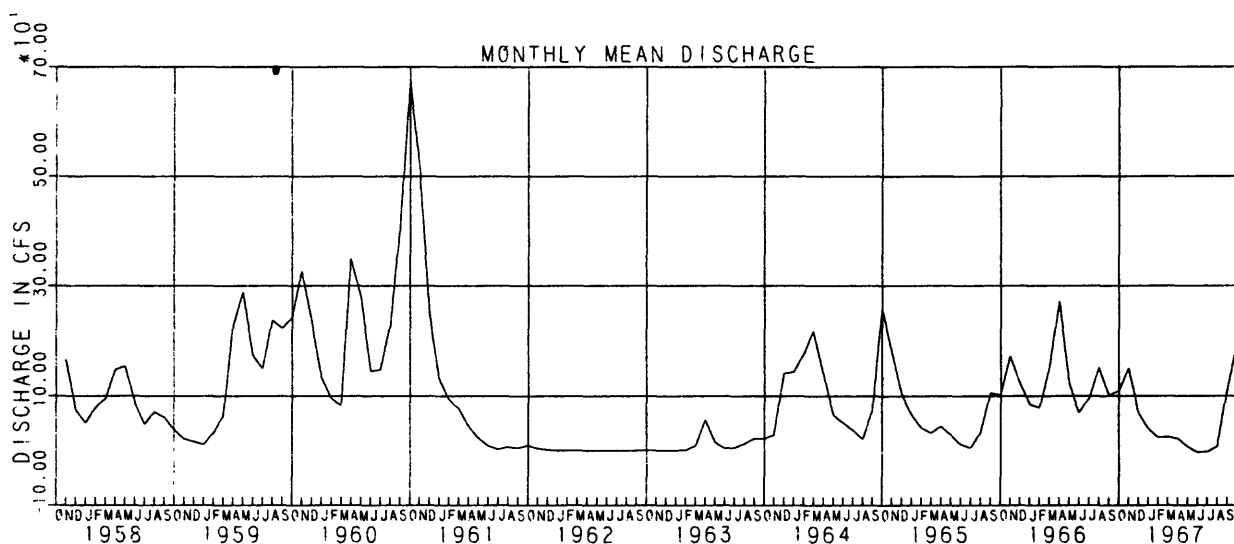
DRAINAGE AREA.--111 mi<sup>2</sup> (287 km<sup>2</sup>).

PERIOD OF RECORD.--November 1949 to January 1968.

REMARKS.--No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--17 years, 108 ft<sup>3</sup>/s (3.06 m<sup>3</sup>/s), 78,190 acre-ft/yr (96.4 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--1949-66: Maximum daily discharge, 990 ft<sup>3</sup>/s (28.0 m<sup>3</sup>/s) Sept. 27, 1960; maximum daily reverse flow, 17 ft<sup>3</sup>/s (0.48 m<sup>3</sup>/s) Sept. 10, 11, 1956.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL <sub>1</sub>	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-15.0	4	6574	100.0	12	5.0	196	5719	87.0	24	85.0	376	2953	44.9
1	-10.0	13	6570	99.9	13	8.0	111	5523	84.0	25	100.0	523	2577	39.1
2	-7.0	59	6557	99.7	14	11.0	151	5412	82.3	26	120.0	373	2054	31.2
3	-3.0	10	6498	98.8	15	15.0	188	5261	80.0	27	140.0	540	1681	25.5
4	-1.0	1	6488	98.7	16	20.0	244	5073	77.2	28	180.0	475	1141	17.3
5	0.0	162	6487	98.7	17	26.0	346	4829	73.5	29	240.0	283	666	10.1
6	0.1	139	6325	96.2	18	35.0	297	4483	68.2	30	320.0	249	383	5.8
7	0.3	49	6186	94.1	19	45.0	310	4186	63.7	31	440.0	43	134	2.0
8	0.5	105	6137	93.4	20	55.0	296	3876	59.0	32	560.0	71	91	1.3
9	1.0	94	6032	91.8	21	65.0	325	3580	54.5	33	740.0	19	20	.3
10	2.0	65	5938	90.3	22	75.0	164	3255	49.5	34	980.0	1	1	
11	3.0	154	5873	89.3	23	80.0	138	3091	47.0					

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02262900 BOGGY CREEK NEAR TAFT, FL

LOCATION.--Lat 28°22'16", long 81°18'39", in NE¼ sec.28, T.24 S., R.30 E., Orange County, Hydrologic Unit 03090101, 450 ft (135 m) downstream from Boggy Creek Swamp, 2.0 mi (3.2 km) upstream from bridge on State Highway 530, 3.5 mi (5.6 km) upstream from mouth, and 5.5 mi (8.8 km) southeast of Taft.

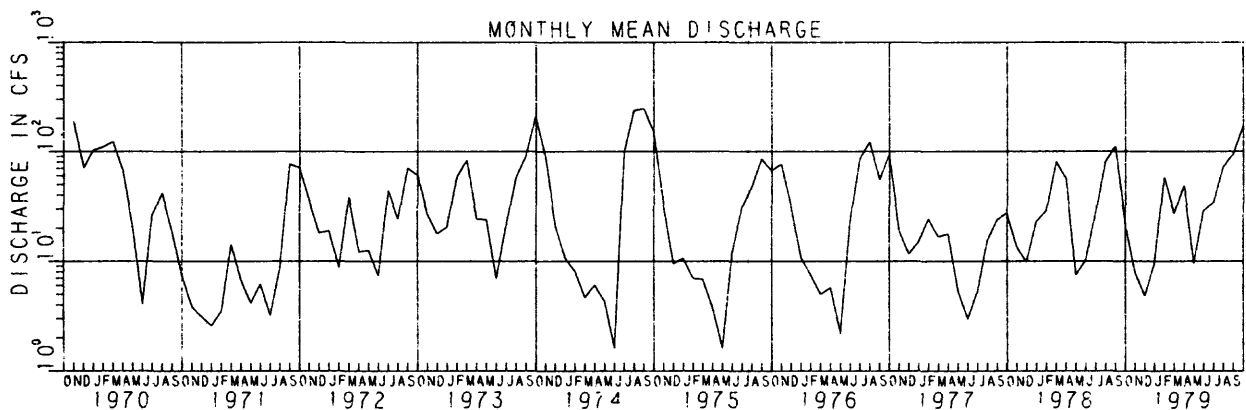
DRAINAGE AREA.--83.6 mi<sup>2</sup> (216.5 km<sup>2</sup>).

PERIOD OF RECORD.--September 1959 to September 1979.

REMARKS.--Some diversion to ground water through drainage wells in lakes upstream from station.

AVERAGE DISCHARGE.--20 years, 47.6 ft<sup>3</sup>/s (1.348 m<sup>3</sup>/s), 7.73 in/yr (196 mm/yr), 34,490 acre-ft/yr (42.5 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft<sup>3</sup>/s (104 m<sup>3</sup>/s) Mar. 18, 1960; minimum, 0.10 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) June 5-11, 1961, May 29,30, 1962, May 28,29, 1965.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	7305	100.0	12	4.4	504	6378	87.3	24	190.0	179	361	4.9
1	0.1	15	7305	100.0	13	6.0	676	5874	80.4	25	260.0	85	182	2.4
2	0.2	26	7290	99.8	14	8.2	595	5198	71.2	26	360.0	43	97	1.3
3	0.3	35	7264	99.4	15	11.0	713	4603	63.0	27	500.0	29	54	.7
4	0.4	15	7229	99.0	16	15.0	677	3890	53.3	28	680.0	12	25	.3
5	0.5	35	7214	98.8	17	21.0	549	3213	44.0	29	930.0	5	13	.1
6	0.7	33	7179	98.3	18	29.0	552	2664	36.5	30	1300.0	3	8	.1
7	0.9	52	7146	97.8	19	40.0	472	2112	28.9	31	1800.0	3	5	
8	1.2	87	7094	97.1	20	55.0	422	1640	22.5	32	2400.0	0	2	
9	1.7	134	7007	95.9	21	75.0	313	1218	16.7	33	3300.0	2	2	
10	2.3	215	6873	94.1	22	100.0	332	905	12.4					
11	3.2	280	6658	91.1	23	140.0	212	573	7.8					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3.8	3.7	2.4	0.75	0.26	0.82	4.4	7.1	7.5	4.5	3.9	3.9

# SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02263500 ST. CLOUD CANAL AT S-59, NEAR ST. CLOUD, FL

LOCATION.--Lat 28°15'56", long 81°18'38", in SE4 sec.33, T.25 S., R.30 E, Osceola County Hydrologic Unit 03090101, at control structure 59, a quarter of a mile downstream from outlet of East Lake Tohopekaliga and 2.1 miles (3.4 km) northwest of St. Cloud, and 139 miles (224 km) upstream from mouth of Kissimmee River at Lake Okeechobee.

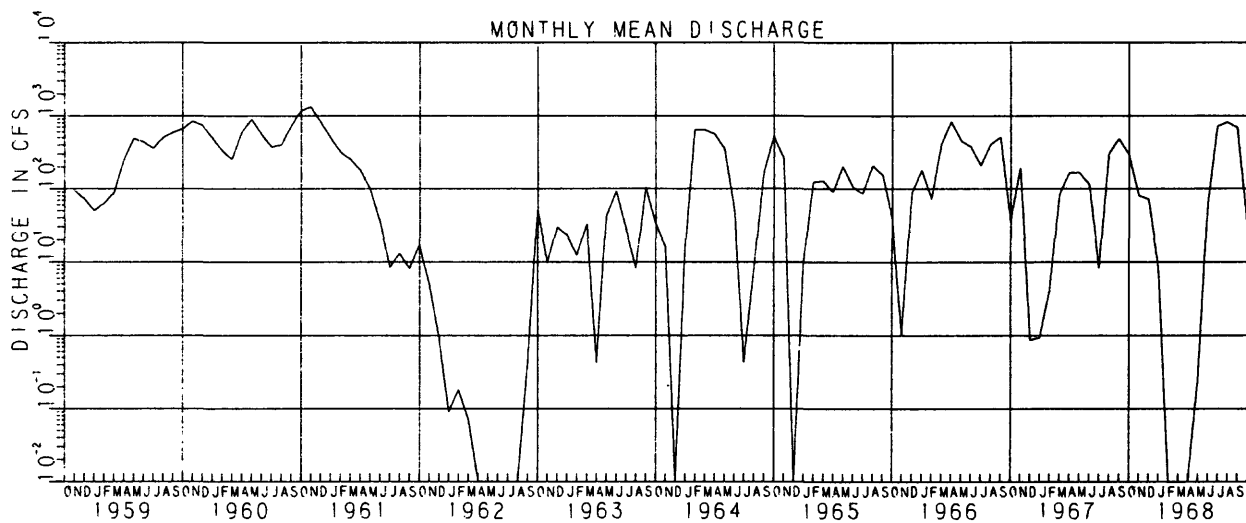
DRAINAGE AREA.--308 mi<sup>2</sup> (798 km<sup>2</sup>).

PERIOD OF RECORD.--January 1942 to September 1968.

REMARKS.--Since Feb. 11, 1963, flow regulated at station. Records do not include diversions from Lake Mary Jane through Disston Canal into St. Johns River basin that may occur during high water. No low-flow data contained in Hughes (1981). or listed below.

AVERAGE DISCHARGE.--25 years (water years 1943-62, 1964-68), 245 ft<sup>3</sup>/s (6.94 m<sup>3</sup>/s) 177,400 acre-ft per year (219 hm<sup>3</sup>).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft<sup>3</sup>/s (45.3 m<sup>3</sup>/s) Sept. 30, 1960; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	1081	9497	100.0	12	4.5	65	8076	85.0	24	150.0	981	5149	54.2
1	0.1	31	8416	88.6	13	6.0	74	8011	84.4	25	200.0	1061	4168	43.8
2	0.2	33	8385	88.3	14	8.1	61	7937	83.6	26	270.0	1058	3107	32.7
3	0.3	5	8352	87.9	15	11.0	123	7876	82.9	27	370.0	706	2049	21.5
4	0.4	27	8347	87.9	16	15.0	68	7753	81.6	28	490.0	591	1343	14.1
5	0.6	29	8320	87.6	17	19.0	121	7685	80.9	29	660.0	537	752	7.9
6	0.8	15	8291	87.3	18	26.0	137	7564	79.6	30	880.0	161	215	2.2
7	1.0	44	8276	87.1	19	35.0	150	7427	78.2	31	1200.0	54	54	.5
8	1.4	29	8232	86.7	20	47.0	382	7277	76.6	32	1600.0			
9	1.9	15	8203	86.4	21	63.0	703	6895	72.6					
10	2.5	66	8188	86.2	22	84.0	446	6192	65.2					
11	3.4	46	8122	85.5	23	110.0	597	5746	60.5					

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02263800 SHINGLE CREEK AT AIRPORT, NEAR KISSIMMEE, FL

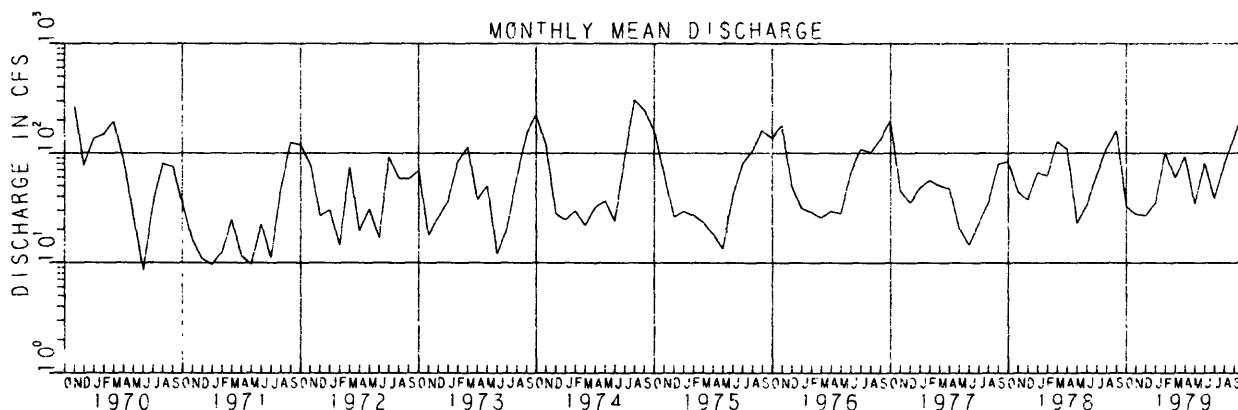
LOCATION.--Lat 28°18'14", long 81°27'04", NW¼ sec.19, T.25 S., R.29 E., Osceola County, Hydrologic Unit 03090101, at bridge on U.S. Highway 192, 1.0 mi (1.6 km) northwest of Kissimmee Airport, 3.0 mi (4.8 km) west of Kissimmee, and 5.6 mi (9.0 km) upstream from mouth.

DRAINAGE AREA.--89.2 mi<sup>2</sup> (231.0 km<sup>2</sup>).

PERIOD OF RECORD.--October 1958 to September 1979.

AVERAGE DISCHARGE.--21 years, 65.2 ft<sup>3</sup>/s (1.845 m<sup>3</sup>/s), 9.93 in/yr (252 mm/yr), 47,240 acre-ft/yr (58.2 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,320 ft<sup>3</sup>/s (94.0 m<sup>3</sup>/s) Mar. 18, 1960; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	170	7670	100.0	12	5.8	375	6790	88.5	24	250.0	186	380	4.9
1	0.1	20	7500	97.8	13	7.9	401	6415	83.6	25	340.0	101	194	2.5
2	0.2	11	7480	97.5	14	11.0	517	6014	78.4	26	460.0	49	93	1.2
3	0.3	30	7469	97.4	15	15.0	592	5497	71.7	27	630.0	21	44	.5
4	0.5	27	7439	97.0	16	20.0	886	4905	64.0	28	860.0	13	23	.2
5	0.7	19	7412	96.6	17	28.0	753	4019	52.4	29	1200.0	3	10	.1
6	0.9	38	7393	96.4	18	38.0	683	3266	42.6	30	1600.0	2	7	
7	1.2	55	7355	95.9	19	52.0	664	2583	33.7	31	2200.0	3	5	
8	1.7	71	7300	95.2	20	71.0	549	1919	25.0	32	3000.0	2	2	
9	2.3	101	7229	94.3	21	97.0	401	1370	17.9					
10	3.1	157	7128	92.9	22	130.0	351	969	12.6					
11	4.2	181	6971	90.9	23	180.0	238	618	8.1					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
5.0	6.4	5.7	0.58	0.00	0.00	5.8	13	16	3.9	4.4	3.2

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02264000 CYPRESS CREEK AT VINELAND, FL

LOCATION.--Lat 28°23'25", long 81°31'11", in NW¼ sec.21, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, at culverts on State Highway 535, 1.0 mi (1.6 km) west of Vineland.

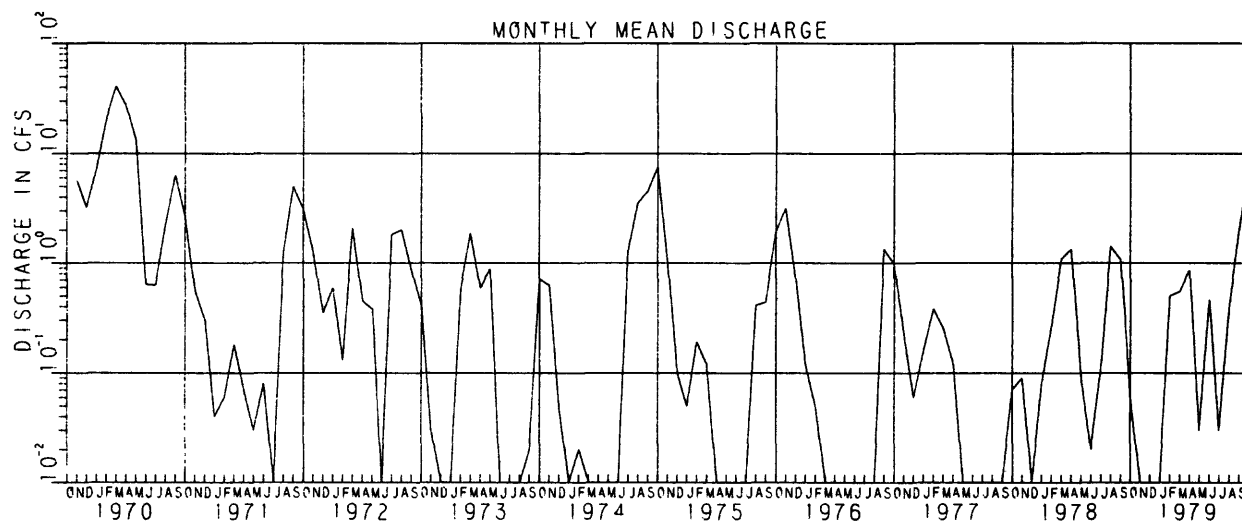
DRAINAGE AREA.--30.3 mi<sup>2</sup> (78.5 km<sup>2</sup>).

PERIOD OF RECORD.--August 1945 to September 1979.

REMARKS.--Some diversions by pumping above station for irrigation.

AVERAGE DISCHARGE.--34 years, 6.42 ft<sup>3</sup>/s (0.182 m<sup>3</sup>/s), 2.88 in/yr (73 mm/yr) 4,650 acre-ft/yr (5.73 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 354 ft<sup>3</sup>/s (10.0 m<sup>3</sup>/s) Sept. 11, 1960; no flow for many days in most years; creek dry at gage for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	2350	12418	100.00	12	0.50	626	6941	55.89	24	23.0	274	1087	8.75
1	0.01	55	10068	81.08	13	0.70	547	6315	50.85	25	31.0	344	813	6.55
2	0.02	44	10013	80.63	14	1.0	680	5758	46.45	26	43.0	232	469	3.78
3	0.03	103	9969	80.28	15	1.4	613	5098	40.97	27	58.0	111	237	1.91
4	0.05	58	9866	79.45	16	1.9	647	4475	36.04	28	79.0	83	126	1.01
5	0.06	177	9808	78.98	17	2.5	583	3828	30.83	29	110.0	33	43	0.35
6	0.09	496	9631	77.56	18	3.0	438	3245	26.13	30	150.0	4	10	0.08
7	0.12	166	9135	73.56	19	4.9	370	2807	22.60	31	200.0	4	6	0.05
8	0.16	623	8969	72.23	20	6.7	383	2437	19.62	32	270.0	2	2	0.02
9	0.22	207	8346	67.21	21	9.1	265	2054	16.54					
10	0.30	776	8139	65.54	22	12.0	423	1788	14.40					
11	0.41	422	7363	59.29	23	17.0	278	1365	10.99					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02264100 BONNET CREEK NEAR VINELAND, FL

LOCATION.--Lat 28°19'58", long 81°31'20", in NW¼ sec.9, T.25 S., R.28 E., Osceola County, Hydrologic Unit 03090101, at bridge on U.S. Highway 192, about 1 mi (2 km) upstream from Reedy Creek Swamp, and 4.5 mi (7.2 km) south of Vineland.

DRAINAGE AREA.--56.1 mi<sup>2</sup> (145.3 km<sup>2</sup>).

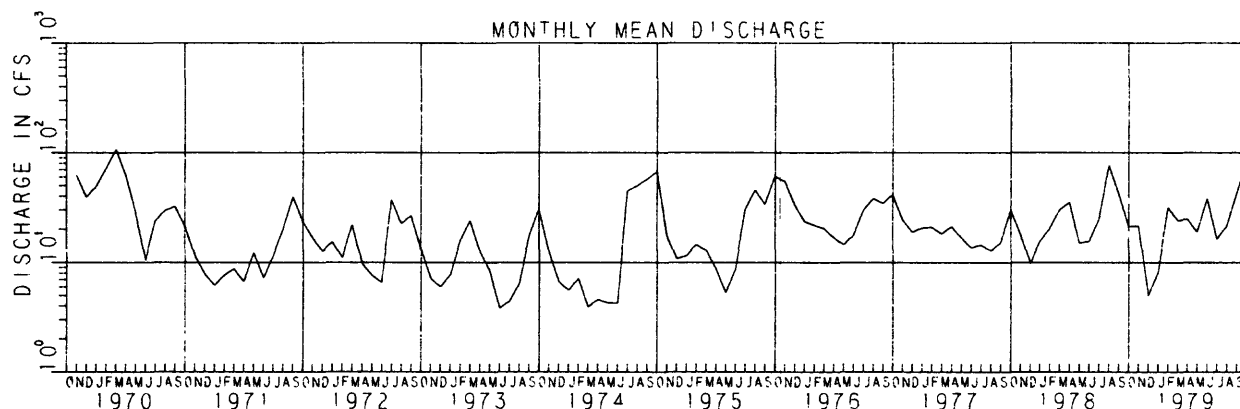
PERIOD OF RECORD.--May 1966 to September 1979.

REMARKS.--Since October 1968, flow regulated by automatic gates upstream and since December 1970, by control structure S-11 0.5 mi (0.8 km) 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. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--13 years, 21.6 ft<sup>3</sup>/s (0.612 m<sup>3</sup>/s), 15,650 acre-ft/yr (19.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 476 ft<sup>3</sup>/s (13.5 m<sup>3</sup>/s) June 28, 1974; no flow May 11 to June 1, June 4-9, 1967, Nov. 6, 1968, Aug. 22, 1969, Nov. 9 to Dec. 8, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 11, 1960, had a discharge of 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	61	4748	100.00	12	0.55	48	4631	97.54	24	21.0	474	1554	32.81
1	0.02	1	4647	98.72	13	0.75	78	4543	96.52	25	28.0	444	1640	22.75
2	0.03	0	4686	98.69	14	1.0	49	4505	94.88	26	34.0	264	531	13.29
3	0.04	2	4686	98.69	15	1.4	41	4456	93.45	27	51.0	132	347	7.73
4	0.05	2	4684	98.65	16	1.9	66	4415	92.99	28	69.0	116	235	4.95
5	0.07	1	4682	98.61	17	2.5	76	4344	91.60	29	94.0	69	114	2.51
6	0.09	4	4651	98.59	18	3.4	207	4271	89.95	30	130.0	24	50	1.05
7	0.12	6	4677	98.50	19	4.5	241	4064	85.59	31	170.0	17	26	0.55
8	0.17	5	4671	98.38	20	6.2	481	3773	74.47	32	230.0	3	0	0.14
9	0.22	5	4666	98.27	21	8.4	324	3292	64.33	33	310.0	4	6	0.13
10	0.30	15	4601	98.17	22	11.0	642	2908	62.51	34	420.0	2	2	0.04
11	0.41	15	4546	97.85	23	15.0	768	2326	48.99					

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02264495 SHINGLE CREEK AT CAMPBELL, FL

LOCATION.--Lat 28°16'01", long 81°26'53", in SE $\frac{1}{4}$  sec.31, T.25 S., R.29 E., Osceola County, Hydrologic Unit 03090101, at bridge on county road, 100 ft (30 m) downstream from Atlantic Coast Line Railroad bridge, 0.8 mi (1.3 km) northeast of Campbell, and 2.5 mi (4.0 km) upstream from Lake Tohopekaliga.

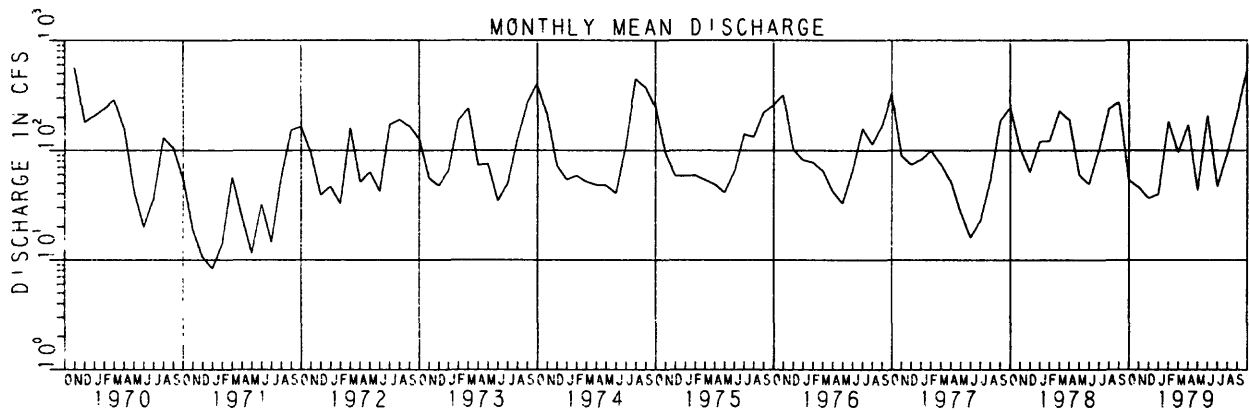
DRAINAGE AREA.--180 mi<sup>2</sup> (466 km<sup>2</sup>), approximately, includes part of watershed in Reedy Creek Swamp.

PERIOD OF RECORD.--October 1968 to September 1979.

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. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--11 years, 116 ft<sup>3</sup>/s (3.285 m<sup>3</sup>/s), 84,040 acre-ft/yr (104 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft<sup>3</sup>/s (42.8 m<sup>3</sup>/s) Oct. 5, 1969; minimum daily discharge, 3.1 ft<sup>3</sup>/s (0.088 m<sup>3</sup>/s) May 9,10, 1971.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	3651	100.0	12	24.0	105	3206	87.8	24	230.0	146	505	13.8
1	3.0	6	3651	100.0	13	29.0	176	3101	84.9	25	280.0	93	359	9.8
2	3.7	10	3645	99.8	14	35.0	198	2925	80.1	26	330.0	78	266	7.2
3	4.5	10	3635	99.6	15	42.0	300	2727	74.7	27	400.0	71	188	5.1
4	5.4	19	3625	99.3	16	51.0	384	2427	66.5	28	480.0	58	117	3.2
5	6.5	21	3606	98.8	17	62.0	277	2043	56.0	29	580.0	25	59	1.6
6	7.9	50	3585	98.2	18	74.0	357	1766	48.4	30	700.0	12	34	.9
7	9.5	24	3535	96.8	19	90.0	256	1409	38.6	31	840.0	12	22	.6
8	11.0	85	3511	96.2	20	110.0	212	1153	31.6	32	1000.0	4	10	.2
9	14.0	77	3426	93.8	21	130.0	199	941	25.8	33	1200.0	6	6	.1
10	17.0	62	3349	91.7	22	160.0	120	742	20.3	34	1500.0			
11	20.0	81	3287	90.0	23	190.0	117	622	17.0					

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02266200 WHITTENHORSE CREEK NEAR VINELAND, FL

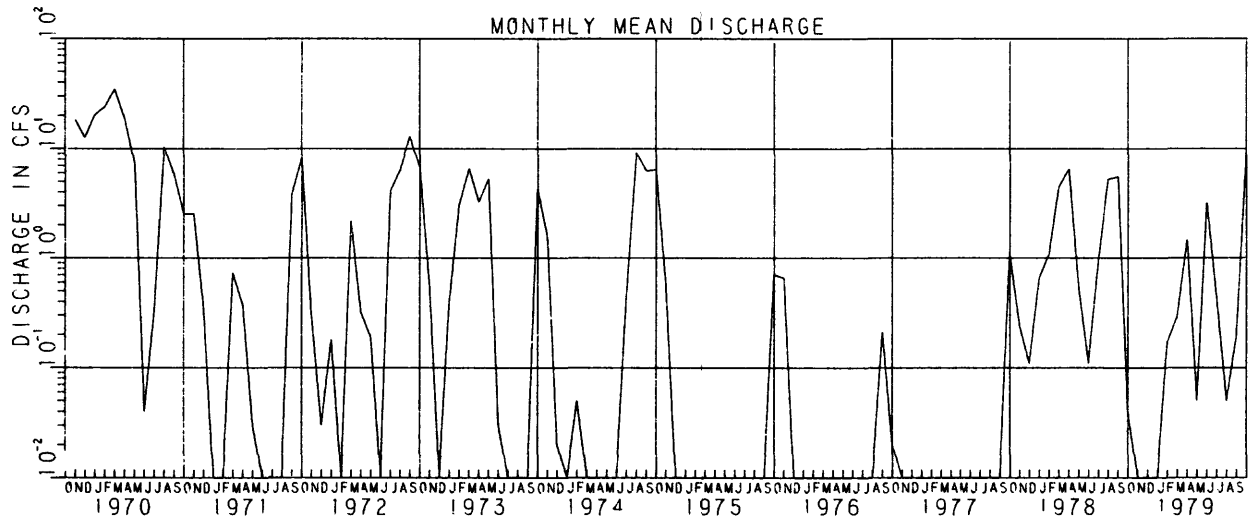
LOCATION.--Lat 28°23'05", long 81°37'00", in NW¼ sec.21, T.24 S., R.27 E., Orange County, Hydrologic Unit 03090101, 12 ft (4 m) downstream from culverts on Hartzog Road, 7 mi (11 km) west of Vineland.

DRAINAGE AREA.--12.4 mi<sup>2</sup> (32.1 km<sup>2</sup>).

PERIOD OF RECORD.--May 1966 to September 1979.

AVERAGE DISCHARGE.--13 years, 2.60 ft<sup>3</sup>/s (0.074 m<sup>3</sup>/s), 2.85 in/yr (72 mm/yr), 1,880 acre-ft/yr (2.32 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 50 ft<sup>3</sup>/s (1.42 m<sup>3</sup>/s) Feb. 7, 1970; no flow for many days each year; creek dry at gage for many days in most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	2265	4748	100.00	12	0.25	91	1872	39.43	24	0.3	154	687	14.47
1	0.01	37	2483	52.30	13	0.37	50	1781	37.51	25	0.1	125	528	11.12
2	0.02	29	2445	51.52	14	0.40	52	1725	36.33	26	0.0	145	493	9.49
3	0.03	33	2417	50.91	15	0.52	66	1663	35.03	27	0.0	44	254	5.43
4	0.04	24	2344	50.21	16	0.50	78	1597	33.64	28	0.0	17	164	3.55
5	0.05	73	2360	49.71	17	1.0	80	1519	31.99	29	0.0	37	42	1.73
6	0.06	70	2287	48.17	18	1.3	106	1439	30.31	30	0.0	31	45	0.95
7	0.08	48	2217	46.69	19	1.7	94	1333	28.07	31	0.0	11	14	0.29
8	0.10	68	2169	45.68	20	2.2	161	1235	25.01	32	0.0	3	3	0.05
9	0.13	77	2101	44.25	21	2.9	106	1074	22.62					
10	0.17	85	2024	42.63	22	3.7	122	963	20.39					
11	0.22	56	1938	40.62	23	4.4	159	846	17.82					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02266300 REEDY CREEK NEAR VINELAND, FL

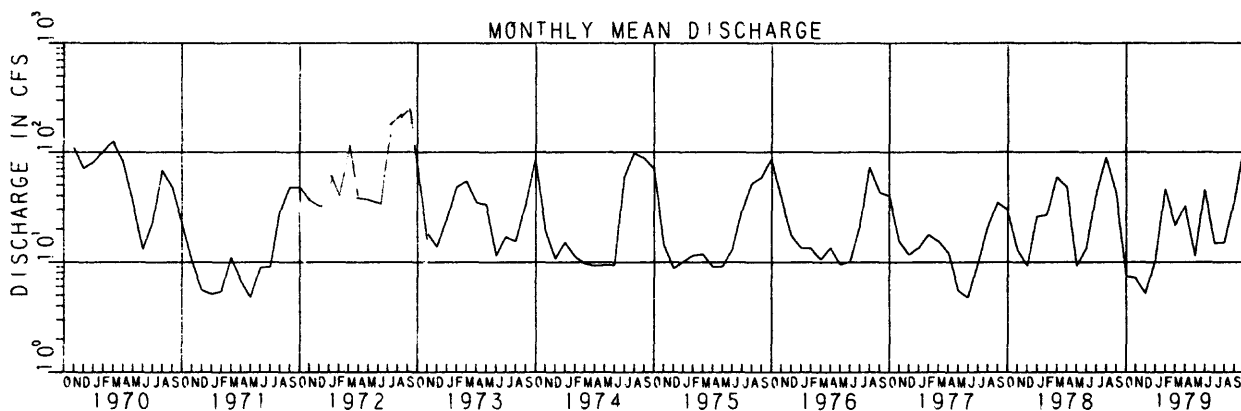
LOCATION.--Lat 28°19'57", long 81°34'48", in NE¼ sec.11, T.25 S., R.27 E., Osceola County, Hydrologic Unit 03090101, at bridge on U.S. Highway 192, about 2.5 mi (4.0 km) upstream from bridge on Interstate Highway 4, 6.5 mi (10.5 km) southwest of Vineland, and 28 mi (45 km) upstream from mouth.

DRAINAGE AREA.--75 mi<sup>2</sup> (194 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--May 1966 to September 1979.

AVERAGE DISCHARGE.--13 years, 28.4 ft<sup>3</sup>/s (0.804 m<sup>3</sup>/s), 20,580 acre-ft/yr (25.4 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,910 ft<sup>3</sup>/s (54.1 m<sup>3</sup>/s) Sept. 11, 1960; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	115	4748	100.00	12	0.48	5	4588	96.63	24	23.0	353	1584	33.36
1	0.01	2	4533	97.58	13	0.67	8	4783	96.52	25	32.0	299	1231	25.93
2	0.02	7	4631	97.54	14	0.93	25	4575	96.36	26	45.0	347	932	19.63
3	0.03	4	4624	97.39	15	1.3	36	4550	95.83	27	62.0	268	585	12.32
4	0.04	6	4620	97.30	16	1.8	29	4514	95.07	28	86.0	168	317	6.88
5	0.05	6	4614	97.18	17	2.4	91	4485	94.46	29	120.0	76	149	3.14
6	0.07	3	4508	97.05	18	3.4	158	4394	92.54	30	160.0	47	73	1.54
7	0.10	3	4605	96.99	19	4.7	292	4235	89.22	31	230.0	17	26	0.55
8	0.13	3	4502	96.93	20	6.4	470	3944	83.07	32	310.0	7	9	0.19
9	0.18	3	4579	96.88	21	8.4	643	3474	73.17	33	430.0	2	2	0.04
10	0.25	2	4576	96.80	22	12.0	737	2831	59.63					
11	0.35	6	4574	96.76	23	17.0	510	2094	44.10					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3.9	2.8	3.3	0.00	0.00	1.4	4.7	13	4.4	3.5	2.5	1.8

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02266480 DAVENPORT CREEK NEAR LOUGHMAN, FL

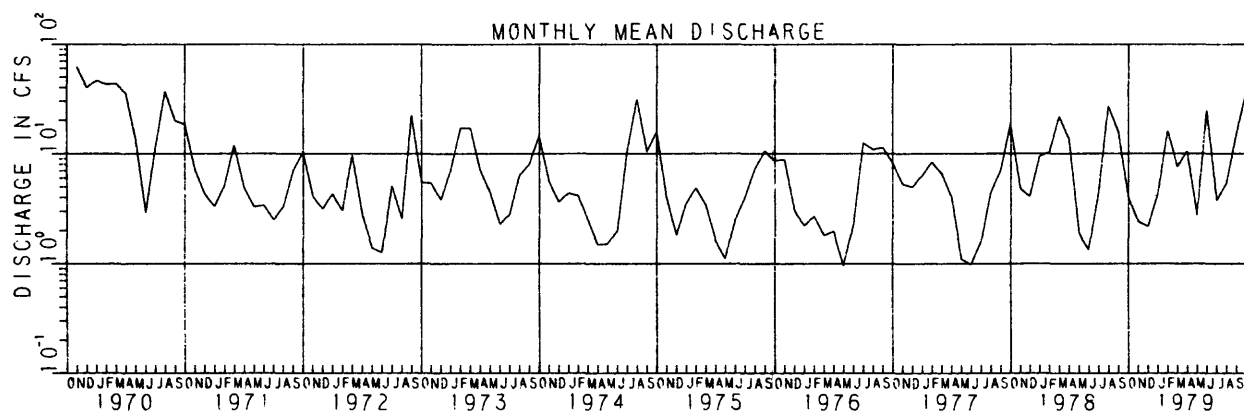
LOCATION.--Lat 28°16'15", long 81°35'28", in NW¼ sec.35, T.25 S., R.26 E., Osceola County, Hydrologic Unit 03090101, at culverts on State Highway 545, 2.0 mi (3.2 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Loughman.

DRAINAGE AREA.--23 mi<sup>2</sup> (60 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--January 1969 to September 1979.

AVERAGE DISCHARGE.--10 years, 9.41 ft<sup>3</sup>/s (0.266 m<sup>3</sup>/s), 5.56 in/yr (141 mm/yr), 6,820 acre-ft/yr (8.41 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 498 ft<sup>3</sup>/s (14.1 m<sup>3</sup>/s) Sept. 22, 1969; minimum, 0.40 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) Apr. 23, June 7-11, 16-18, 1972.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	3652	100.0	12	4.0	284	1967	53.9	24	44.0	68	142	3.8
1	0.4	1	3652	100.0	13	4.9	306	1683	46.1	25	53.0	38	74	2.0
2	0.5	36	3651	100.0	14	6.0	226	1377	37.7	26	65.0	17	36	.9
3	0.7	43	3615	99.0	15	7.3	200	1151	31.5	27	79.0	5	19	.5
4	0.8	90	3572	97.8	16	8.9	155	951	26.0	28	96.0	8	14	.3
5	1.0	64	3482	95.3	17	11.0	125	796	21.8	29	120.0	3	6	.1
6	1.2	118	3418	93.6	18	13.0	116	671	18.4	30	140.0	1	3	
7	1.5	145	3300	90.4	19	16.0	120	555	15.2	31	180.0	0	2	
8	1.8	245	3155	86.4	20	20.0	71	435	11.9	32	210.0	2	2	
9	2.2	301	2910	79.7	21	24.0	72	364	10.0	33	260.0			
10	2.7	332	2609	71.4	22	29.0	79	292	8.0	34	320.0			
11	3.3	310	2277	62.3	23	36.0	71	213	5.8					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2.3	2.0	1.0	0.60	0.66	0.79	1.1	2.2	1.9	1.4	1.1	1.7

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02266500 REEDY CREEK NEAR LOUGHMAN, FL

LOCATION.--Lat 28°15'48", long 81°32'12", in SW¼ sec.32, T.25 S., R.28 E., Osceola County, Hydrologic Unit 03090101, 20 ft (6 m) upstream from bridge on U.S. Highways 17 and 92, 1.0 mi (1.6 km) downstream from Reedy Creek Improvement District Structure 40, 2.5 mi (4.0 km) northeast of Loughman, 3 mi (5 km) downstream from Davenport Creek, and 21 mi (34 km) upstream from mouth.

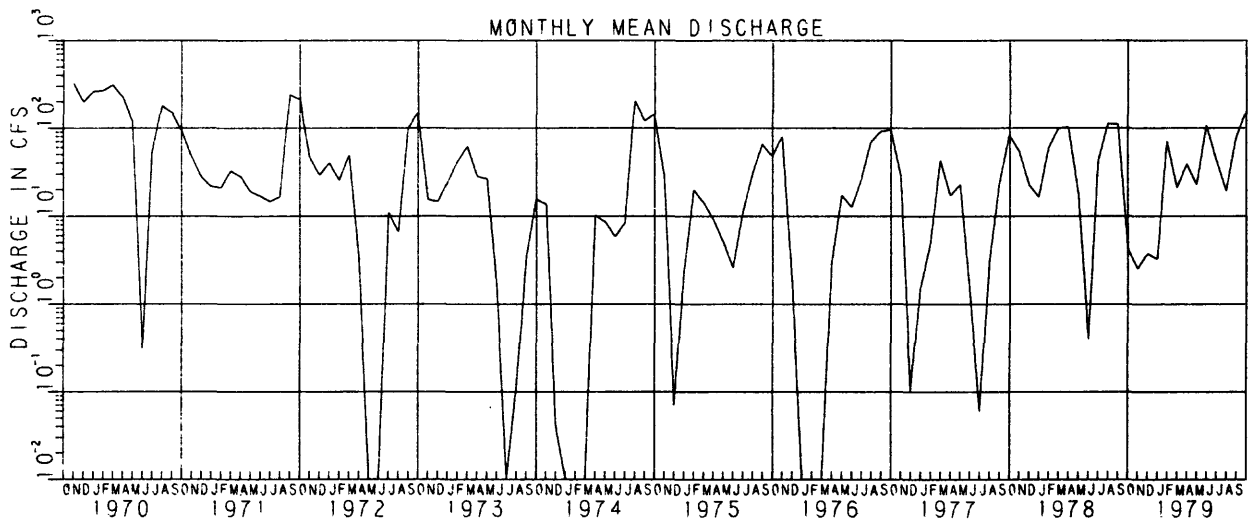
DRAINAGE AREA.--110 mi<sup>2</sup> (285 km<sup>2</sup>), approximately, includes an indeterminate portion of the Reedy Creek Swamp watershed.

PERIOD OF RECORD.--October 1939 to September 1959, July 1968 to September 1979.

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. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--31 years (water years 1940-59, 1969-79), 70.1 ft<sup>3</sup>/s (1.985 m<sup>3</sup>/s), 50,790 acre-ft/yr (62.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 790 ft<sup>3</sup>/s (22.4 m<sup>3</sup>/s) Sept. 24, 1969; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	594	11322	100.00	12	0.50	26	10648	94.05	24	36.0	1128	6021	53.18
1	0.01	2	10728	94.75	13	0.85	29	10622	93.82	25	51.0	1253	4893	43.22
2	0.02	3	10725	94.74	14	1.2	35	10593	93.56	26	71.0	1145	3640	32.15
3	0.03	2	10723	94.71	15	1.7	65	10555	93.23	27	100.0	812	2495	22.04
4	0.04	1	10721	94.59	16	2.4	120	10490	92.65	28	140.0	775	1683	14.86
5	0.05	0	10720	94.58	17	3.3	167	10370	91.59	29	200.0	492	908	8.02
6	0.08	11	10720	94.58	18	4.7	328	10203	90.12	30	280.0	284	416	3.67
7	0.11	2	10709	94.59	19	5.6	369	9875	87.22	31	390.0	122	132	1.17
8	0.15	15	10707	94.57	20	9.2	499	9506	83.96	32	550.0	9	10	0.09
9	0.22	7	10692	94.44	21	13.0	619	9007	74.55	33	730.0	1	1	0.01
10	0.30	19	10655	94.37	22	18.0	1128	8388	74.09					
11	0.43	18	10666	94.21	23	25.0	1239	7260	64.12					

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02267000 CATFISH CREEK NEAR LAKE WALES, FL

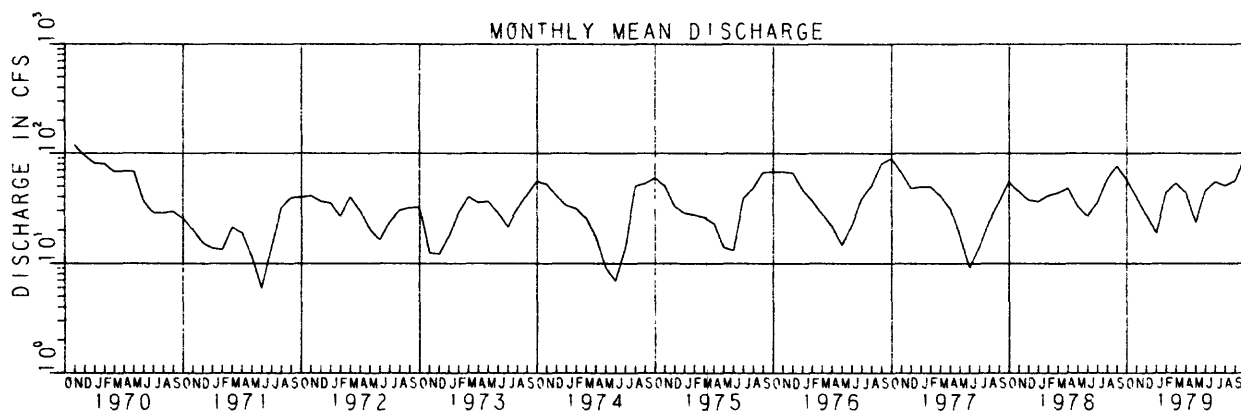
LOCATION.--Lat 27°57'40", long 81°29'48", in sec.14, T.29 S., R.28 E., Polk County, Hydrologic Unit 03090101, 0.2 mi (0.3 km) downstream from Lake Pierce, 7 mi (11 km) northeast of city of Lake Wales, and 9.3 mi (15.0 km) upstream from mouth.

DRAINAGE AREA.--58.9 mi<sup>2</sup> (152.6 km<sup>2</sup>).

PERIOD OF RECORD.-- October 1947 to September 1979.

AVERAGE DISCHARGE.--32 years, 47.1 ft<sup>3</sup>/s (1.334 m<sup>3</sup>/s), 10.86 in/yr (276 mm/yr), 34,120 acre-ft/yr (42.1 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 235 ft<sup>3</sup>/s (6.66 m<sup>3</sup>/s) Sept. 17, 18, 1960; minimum daily discharge, 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) June 1, 1967.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	11688	100.0	12	7.7	57	11510	98.5	24	50.0	1197	4223	36.1
1	1.3	2	11688	100.0	13	9.0	110	11453	98.0	25	58.0	1040	3026	25.8
2	1.6	7	11686	100.0	14	11.0	103	11343	97.0	26	68.0	733	1986	16.9
3	1.9	6	11679	99.9	15	12.0	173	11240	96.2	27	79.0	437	1253	10.7
4	2.2	9	11673	99.9	16	14.0	371	11067	94.7	28	92.0	348	816	6.9
5	2.6	8	11664	99.8	17	17.0	338	10696	91.5	29	110.0	173	468	4.0
6	3.0	6	11656	99.7	18	20.0	372	10358	88.6	30	130.0	153	295	2.5
7	3.6	13	11650	99.7	19	23.0	754	9986	85.4	31	150.0	79	142	1.2
8	4.1	19	11637	99.6	20	27.0	959	9232	79.0	32	170.0	29	63	.5
9	4.8	34	11618	99.4	21	31.0	1130	8273	70.8	33	200.0	29	34	.2
10	5.7	32	11584	99.1	22	36.0	1435	7143	61.1	34	230.0	5	5	
11	6.6	42	11552	98.8	23	42.0	1485	5708	48.8					

VALUE EXCEEDED 'P' PERCENT OF TIME

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DE
21	20	16	10	5.5	7.1	19	24	27	20	18	1

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02267500 KISSIMMEE RIVER NEAR LAKE WALES, FL

LOCATION.--Lat 28°00'00", long 81°22'50", in sec.36, T.28 S., R.29 E., Osceola County, Hydrologic Unit 0309101, on southeast shore of Lake Hatchineha near head of upper reach of Kissimmee River, 3.5 miles (5.6 km) upstream from Lake Kissimmee and 14 miles (22.5 km) northeast of Lake Wales, Polk County.

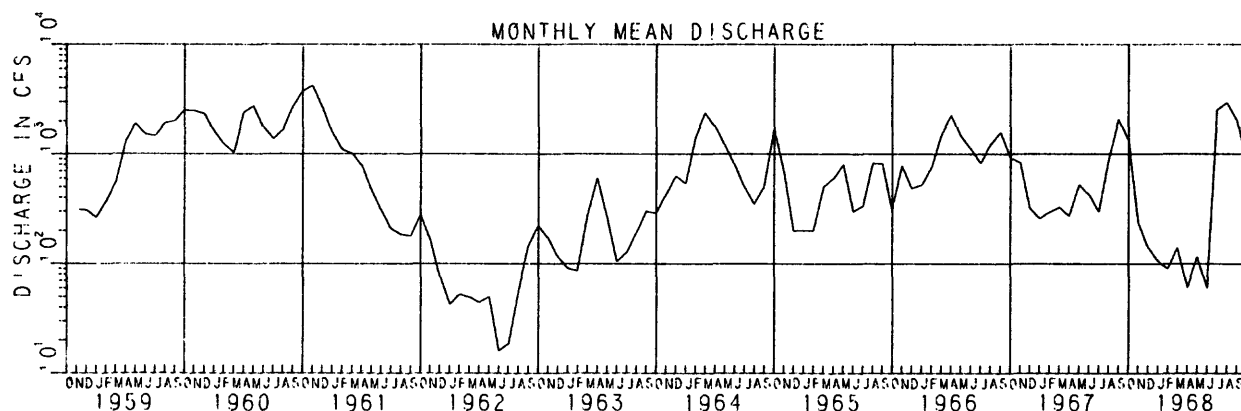
DRAINAGE AREA.--Indeterminate. Total drainage area of Kissimmee River above site of staff gage at Camp Mack and Short (Cypress-Kissimmee) Canal above station is 1,185 mi<sup>2</sup> (3070 km<sup>2</sup>).

PERIOD OF RECORD.--January 1942 to September 1968.

REMARKS.-- Records do not include diversions above Lake Hatchineha which consist of overflow from Cypress Lake and Cypress-Hatchineha Canal and natural drainage from marshland south of Cypress Lake. Diversions are confined at high stages in secs. 34, 35, 36, T.28 S., R.30 E., at Short (Cypress-Kissimmee) Canal, 1.1 miles (1.8 km) upstream from Lake Kissimmee and 4.6 miles (7.4 km) downstream from Cypress Lake. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--26 years 812 ft<sup>3</sup>/s (23.0 m<sup>3</sup>/s) 587,900 acre-ft/year (725 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,860 ft<sup>3</sup>/s (138 m<sup>3</sup>/s) Oct. 1, 1960; maximum daily reverse flow, June 8, 1966.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-1300.0	3	9770	100.0	12	10.0	11	9615	98.4	24	370.0	447	6801	69.6
1	-900.0	8	9767	100.0	13	14.0	16	9604	98.3	25	450.0	731	6354	65.0
2	-500.0	37	9759	99.9	14	25.0	67	9588	98.1	26	550.0	984	5623	57.5
3	-200.0	38	9722	99.5	15	32.0	88	9521	97.5	27	700.0	1299	4639	47.4
4	-100.0	17	9684	99.1	16	40.0	199	9433	96.6	28	900.0	1200	3340	34.1
5	-50.0	18	9667	98.9	17	60.0	129	9234	94.5	29	1200.0	869	2140	21.9
6	-10.0	4	9649	98.8	18	80.0	121	9105	93.2	30	1600.0	544	1271	13.0
7	0.0	4	9645	98.7	19	100.0	237	8984	92.0	31	2000.0	627	727	7.4
8	2.0	6	9641	98.7	20	130.0	287	8747	89.5	32	3000.0	96	100	1.0
9	3.0	3	9635	98.6	21	180.0	479	8460	86.6	33	4800.0	4	4	
10	4.0	12	9632	98.6	22	230.0	685	7981	81.7					
11	6.0	5	9620	98.5	23	300.0	495	7296	74.7					

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02268903 KISSIMMEE RIVER AT S-65, NEAR LAKE WALES, FL

LOCATION.--Lat 27°48'14", long 81°11'53", in NW¼ sec.11, T.31 S., R.31 E., Osceola County, Hydrologic Unit 03090101, at control structure 65, 0.1 mi (0.2 km) downstream from bridge on State Highway 60, and 25 mi (40 km) southeast of town of Lake Wales.

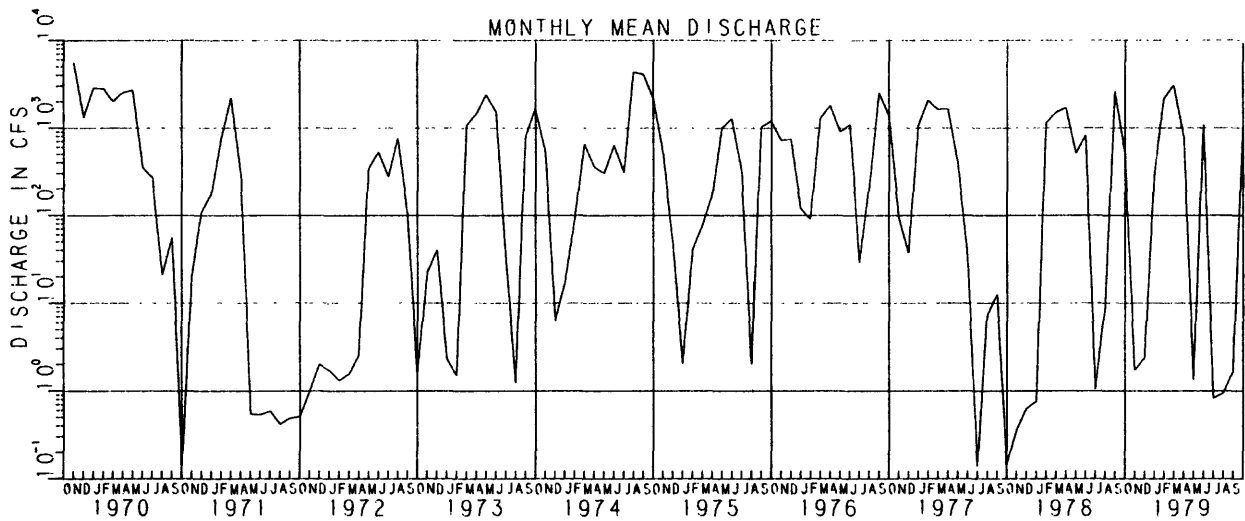
DRAINAGE AREA.--1,607 mi<sup>2</sup> (4,162 km<sup>2</sup>) at State Highway 60, includes areas drained by Lake Weohyakapka and Lake Marian

PERIOD OF RECORD.--October 1933 to September 1979. Only October 1970 through September 1979 used for this report.

REMARKS.--Flow regulated by operation of control structure 65 since July 1964 and by storage releases at several structures in the river basin headwaters upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--46 years, 1,067 ft<sup>3</sup>/s (30.22 m<sup>3</sup>/s), 773,000 acre-ft/yr (953 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,970 ft<sup>3</sup>/s (254 m<sup>3</sup>/s) Oct. 22, 1969; maximum reverse flow measured, 1,190 ft<sup>3</sup>/s (33.7 m<sup>3</sup>/s) Oct. 17, 1956; no flow for many days.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-1100.0	0	3652	100.0	12	50.0	45	1866	51.1	24	1900.0	94	555	15.1
1	-700.0	0	3652	100.0	13	75.0	32	1821	49.9	25	2200.0	107	461	12.6
2	-400.0	0	3652	100.0	14	100.0	334	1789	49.0	26	2500.0	102	354	9.6
3	-300.0	0	3652	100.0	15	300.0	133	1450	39.7	27	3000.0	73	252	6.9
4	-200.0	0	3652	100.0	16	500.0	194	1317	36.1	28	3500.0	42	179	4.9
5	-100.0	0	3652	100.0	17	600.0	16	1123	30.8	29	4000.0	58	137	3.7
6	-50.0	0	3652	100.0	18	700.0	67	1107	30.3	30	4500.0	36	79	2.1
7	-20.0	0	3652	100.0	19	800.0	50	1040	28.5	31	5000.0	26	43	1.1
8	0.0	965	3652	100.0	20	900.0	76	990	27.1	32	6000.0	11	17	.4
9	1.0	754	2687	73.6	21	1100.0	87	914	25.0	33	7000.0	6	6	.1
10	10.0	7	1933	52.9	22	1300.0	151	827	22.6	34	8900.0			
11	30.0	60	1426	52.7	23	1600.0	121	676	18.5					

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02269500 REEDY CREEK NEAR FROSTPROOF, FL

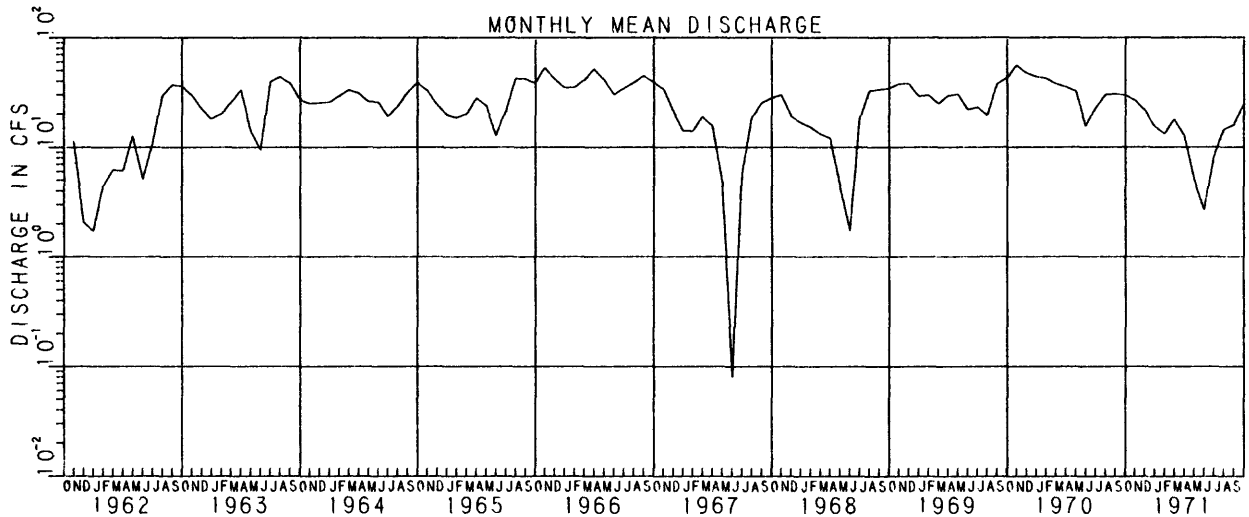
LOCATION.--Lat 27°43'13", long 81°28'40", in SW¼ sec.1, T.32 S., R.28 E., Polk County, Hydrologic Unit 03090101, at highway bridge, 100 ft (305 m) downstream from Reedy Lake, and 3.5 miles (5.6 km) southeast of Frostproof.

DRAINAGE AREA.--60.9 mi<sup>2</sup> (158 km<sup>2</sup>).

PERIOD OF RECORD.--October 1946 to September 1971.

AVERAGE DISCHARGE.--25 years, 35.2 ft<sup>3</sup>/s (1.00 m<sup>3</sup>/s), 25,500 acre-ft/yr (31.4 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 166 ft<sup>3</sup>/s (4.70 m<sup>3</sup>/s) Oct. 2-6, 1958. No flow May 20 to June 1, 1967.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	13	9131	100.00	12	0.40	7	9037	98.97	24	15.0	1053	7434	85.44
1	0.01	3	9118	99.86	13	0.61	13	9030	98.89	25	21.0	1313	6785	74.31
2	0.02	1	9115	99.82	14	0.82	26	9017	98.75	26	28.0	2190	5472	59.93
3	0.03	3	9114	99.81	15	1.1	38	8991	98.47	27	37.0	1654	3282	37.94
4	0.04	2	9111	99.78	16	1.5	40	8953	98.05	28	50.0	852	1624	17.83
5	0.06	3	9109	99.76	17	2.0	56	8913	97.61	29	67.0	402	776	8.50
6	0.08	7	9106	99.73	18	2.7	41	8857	97.00	30	90.0	276	374	4.10
7	0.11	8	9099	99.65	19	3.6	49	8816	96.55	31	120.0	92	94	1.07
8	0.14	4	9091	99.56	20	4.8	98	8767	96.01	32	160.0	6	6	0.07
9	0.19	6	9087	99.52	21	6.4	183	8669	94.94					
10	0.25	30	9081	99.45	22	8.5	200	8486	92.94					
11	0.34	14	9051	99.12	23	12.0	448	8286	90.75					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
9.2	10	4.0	2.7	1.3	1.9	15	17	20	15	8.9	7.3

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02270000 CARTER CT 1K NEAR SEBRING, FL

LOCATION.--Lat 27°32'00", long 81°23'25", in SE¼ sec.11, T.34 S., R.29 E., Highlands County, Hydrologic Unit 03090101, 1,100 ft (335 m) upstream from bridge on county road, 25 miles upstream from Arbuckle Creek, 4 miles (6.4 km) downstream from Bonnet Lake, and 4.2 miles (6.8 km) northeast of Sebring.

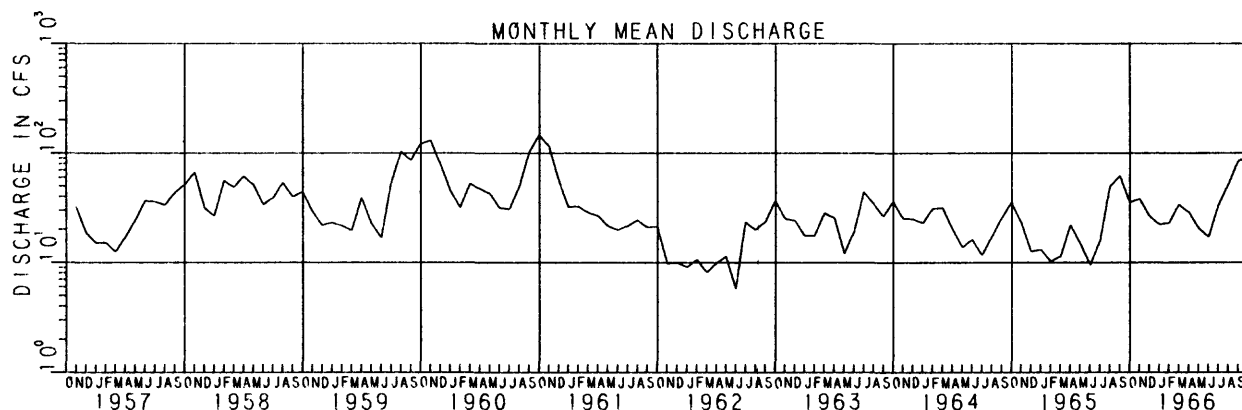
DRAINAGE AREA.--38.8 mi<sup>2</sup> (100.5 km<sup>2</sup>).

PERIOD OF RECORD.--October 1954 to September 1966.

REMARKS.--Regulation by Bonnet Lake control structure above station.

AVERAGE DISCHARGE.--12 years, 31.7 ft<sup>3</sup>/s (0.90 m<sup>3</sup>/s), 22,950 acre-ft/yr (28.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 552 ft<sup>3</sup>/s (15.63 m<sup>3</sup>/s), Sept. 11, 1960; minimum daily, 2.3 ft<sup>3</sup>/s (0.065 m<sup>3</sup>/s) May 23, 1962.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	4383	100.0	12	10.0	257	3916	89.3	24	54.0	137	604	13.7
1	2.2	2	4383	100.0	13	12.0	259	3659	83.5	25	62.0	100	467	10.6
2	2.6	2	4381	100.0	14	14.0	250	3400	77.6	26	72.0	73	367	8.3
3	3.0	7	4379	99.9	15	16.0	222	3150	71.9	27	82.0	76	294	6.7
4	3.5	8	4372	99.7	16	18.0	385	2928	66.8	28	94.0	77	218	4.9
5	4.0	8	4364	99.6	17	21.0	377	2543	58.0	29	110.0	39	141	3.2
6	4.6	13	4356	99.4	18	24.0	327	2166	49.4	30	120.0	50	102	2.3
7	5.2	45	4343	99.1	19	27.0	344	1839	42.0	31	140.0	34	52	1.1
8	6.0	59	4298	98.1	20	31.0	320	1495	34.1	32	160.0	14	18	.4
9	6.9	73	4239	96.7	21	36.0	246	1175	26.8	33	190.0	3	4	
10	7.9	107	4166	95.0	22	41.0	177	929	21.2	34	220.0	1	1	
11	9.1	143	4059	92.6	23	47.0	148	752	17.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
9.2	7.7	6.8	5.9	4.5	6.9	8.7	10	12	10	8.8	8.7

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02270500 ARBUCKLE CREEK NEAR DE SOTO CITY, FL

LOCATION.--Lat 27°26'32", long 81°17'51", in SE¼ sec.11, T.35 S., R.30 E., Highlands County, Hydrologic Unit 03090101, at bridge on U.S. Highway 98, 1.3 mi (2.1 km) upstream from mouth, and 7 mi (11 km) east of De Soto City.

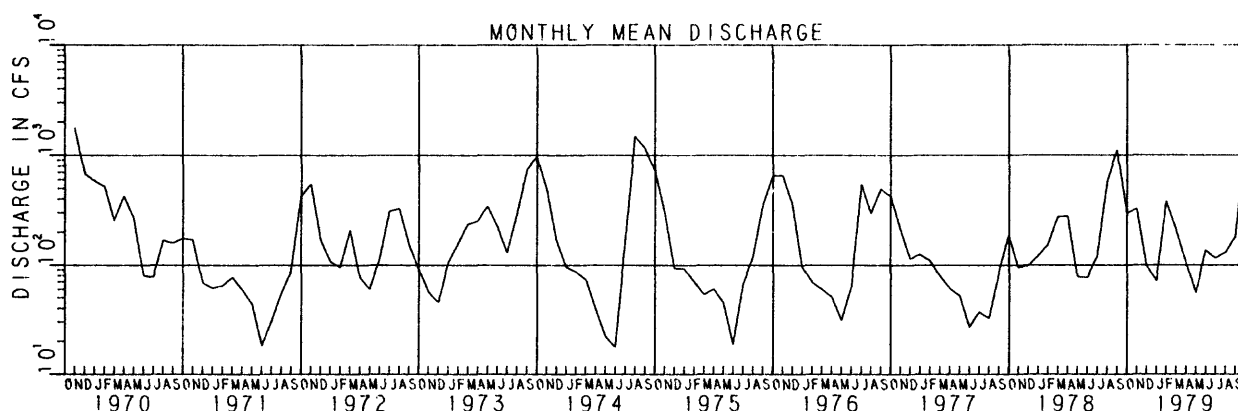
DRAINAGE AREA.--379 mi<sup>2</sup> (982 km<sup>2</sup>), excludes area drained by Lake Weohyakapka and includes area drained by Lake Sebring.

PERIOD OF RECORD.--June 1939 to September 1979.

REMARKS.--Records include small diversions into Lake Arbuckle from Lake Weohyakapka through Blue Jordan Swamp.

AVERAGE DISCHARGE.--40 years, 337 ft<sup>3</sup>/s (9.544 m<sup>3</sup>/s), 244,200 acre-ft/yr (301 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,380 ft<sup>3</sup>/s (209 m<sup>3</sup>/s) Sept. 23, 1948; minimum daily discharge, 0.85 ft<sup>3</sup>/s (0.024 m<sup>3</sup>/s) May 9, 1975.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14610	100.0	12	17.0	137	14313	98.0	24	460.0	986	3061	20.9
1	0.8	2	14610	100.0	13	23.0	203	14176	97.0	25	600.0	709	2075	14.2
2	1.1	0	14608	100.0	14	30.0	342	13973	95.6	26	790.0	463	1366	9.3
3	1.5	1	14608	100.0	15	39.0	582	13631	93.3	27	1000.0	437	903	6.1
4	1.9	6	14607	100.0	16	51.0	931	13049	89.3	28	1400.0	185	466	3.1
5	2.5	29	14601	99.9	17	67.0	1267	12118	82.9	29	1800.0	124	281	1.9
6	3.3	14	14572	99.7	18	89.0	1524	10851	74.3	30	2400.0	89	157	1.0
7	4.4	24	14558	99.6	19	120.0	1122	9327	63.8	31	3100.0	26	68	.4
8	5.8	29	14534	99.5	20	150.0	1498	8205	56.2	32	4100.0	23	42	.2
9	7.6	60	14505	99.3	21	200.0	1192	6707	45.9	33	5400.0	17	19	.1
10	10.0	46	14445	98.9	22	260.0	1267	5515	37.7	34	7000.0	2	2	
11	13.0	86	14399	98.6	23	350.0	1187	4248	29.1					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
54	48	32	17	8.1	16	48	81	113	75	55	54

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

## 02271000 STEARNS CREEK NEAR LAKE PLACID, FL

LOCATION.--Lat 27°19'22", long 81°25'09", in NE¼ sec.28, T.36 S., R.29 E., Highland County, Hydrologic Unit 03090101, 100 ft (30.5 m) upstream from county bridge, 250 ft (76.32 m) downstream from Lake June-in-Winter, 1.0 mile (1.6 km) upstream from Lake Francis, and 3.6 miles (5.8 km) northwest of town of Lake Placid, Highlands County,

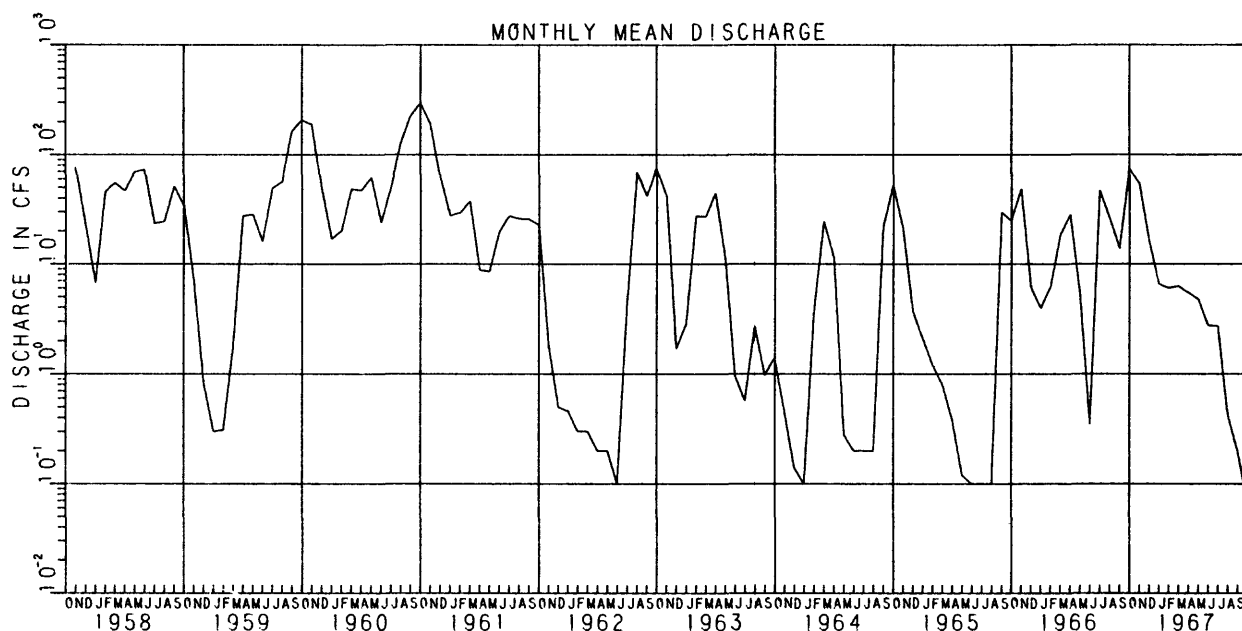
DRAINAGE AREA.--44.0 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1955 to September 1967.

REMARKS.--Records do not include diversions through Placid-Huntley Canal into Josephine Creek. Flow regulated by operation of control structure 200 ft (61.0 km) downstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--12 years, 26.6 ft<sup>3</sup>/s (0.75 m<sup>3</sup>/s), 19,260 acre-ft/yr (23.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 431 ft<sup>3</sup>/s (12.2 m<sup>3</sup>/s) Sept. 17,1960; no flow Mar. 23 to Apr. 3 1960 and for many days in 1963.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	454	4749	100.00	12	1.0	87	2742	57.74	24	27.0	277	1298	27.33
1	0.05	7	4295	90.44	13	1.3	69	2655	55.91	25	36.0	240	1021	21.50
2	0.07	0	4288	90.29	14	1.8	56	2566	54.45	26	47.0	231	741	15.60
3	0.09	411	4288	90.29	15	2.3	47	2530	53.27	27	62.0	163	510	10.74
4	0.11	0	3877	81.64	16	3.0	98	2483	52.28	28	81.0	115	347	7.31
5	0.15	0	3877	81.64	17	4.0	118	2385	50.22	29	110.0	38	232	4.89
6	0.20	531	3877	81.64	18	5.2	178	2267	47.74	30	140.0	72	194	4.09
7	0.26	254	3346	70.46	19	6.9	163	2089	43.99	31	180.0	67	122	2.57
8	0.34	133	3092	65.11	20	9.1	116	1926	40.56	32	240.0	31	55	1.16
9	0.45	96	2959	62.31	21	12.0	107	1810	38.11	33	320.0	23	24	0.51
10	0.59	72	2863	60.29	22	16.0	163	1703	35.86	34	420.0	1	1	0.02
11	0.77	49	2791	58.77	23	21.0	222	1520	32.01					

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02271500 JOSEPHINE CREEK NEAR DE SOTO CITY, FL

LOCATION.--Lat 27°22'26", long 81°23'37", in SE¼ sec.2, T.36 S., R.29 E., Highlands County, Hydrologic Unit, 320 ft (98 m) downstream from bridge on State Highway 17, 1.0 mile (1.6 km) downstream from Jack Creek, 4 miles (6 km) south of De Soto City, and 4.9 miles (7.9 km) upstream from mouth.

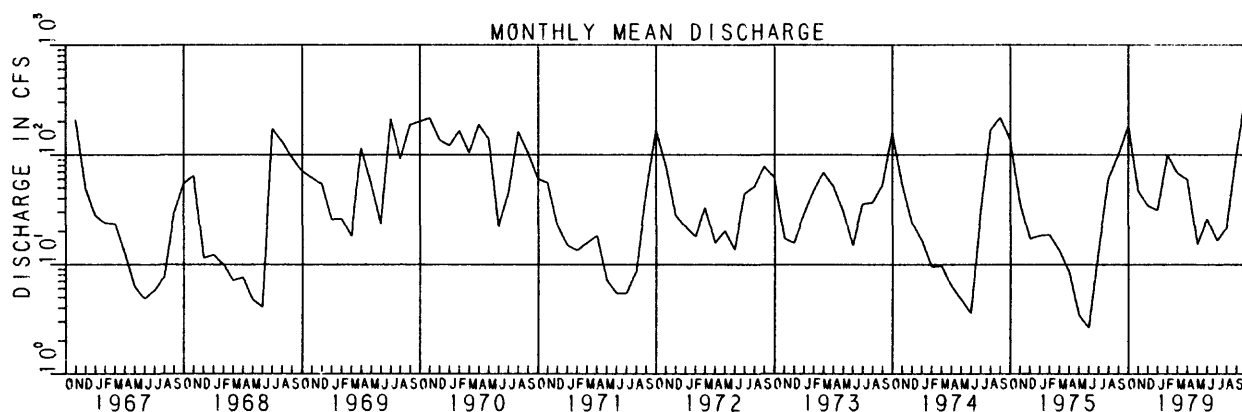
DRAINAGE AREA.--109 mi<sup>2</sup> (282 km<sup>2</sup>), includes area drained by Lake Sebring.

PERIOD OF RECORD.--October 1946 to September 1975, October 1978 to September 1979.

REMARKS.--Diversions for irrigation of citrus groves above station during dry periods.

AVERAGE DISCHARGE.--30 years (water years 1947-75, 1979), 87.6 ft<sup>3</sup>/s (2.481 m<sup>3</sup>/s), 10.91 in/yr (277 mm/yr), 63,470 acre-ft/yr (78.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--1946-66: Maximum discharge, 1,780 ft<sup>3</sup>/s (50.4 m<sup>3</sup>/s) Sept. 23, 1948; minimum, 0.30 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) May 22, 1956.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	10957	100.0	12	7.0	346	10084	92.0	24	120.0	779	2409	21.9
1	0.5	2	10957	100.0	13	8.9	293	9738	88.9	25	160.0	449	1630	14.8
2	0.6	7	10955	100.0	14	11.0	462	9445	86.2	26	200.0	410	1181	10.7
3	0.8	12	10948	99.9	15	14.0	576	8983	82.0	27	260.0	204	771	7.0
4	1.0	17	10936	99.8	16	18.0	702	8407	76.7	28	320.0	264	567	5.1
5	1.3	18	10919	99.7	17	23.0	804	7705	70.3	29	410.0	146	303	2.7
6	1.7	27	10901	99.5	18	30.0	690	6901	63.0	30	520.0	83	157	1.4
7	2.1	63	10874	99.2	19	38.0	771	6211	56.7	31	670.0	39	74	.6
8	2.7	119	10811	98.7	20	48.0	881	5440	49.6	32	850.0	29	35	.3
9	3.4	129	10692	97.6	21	61.0	747	4559	41.6	33	1100.0	5	6	
10	4.3	203	10563	96.4	22	77.0	804	3812	34.8	34	1400.0	1	1	
11	5.5	276	10360	94.6	23	98.0	599	3008	27.5					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
9.2	8.2	5.5	2.9	2.2	3.6	9.6	13	31	19	12	10

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02272000 ISTOKPOGA CANAL NEAR CORNWELL, FL

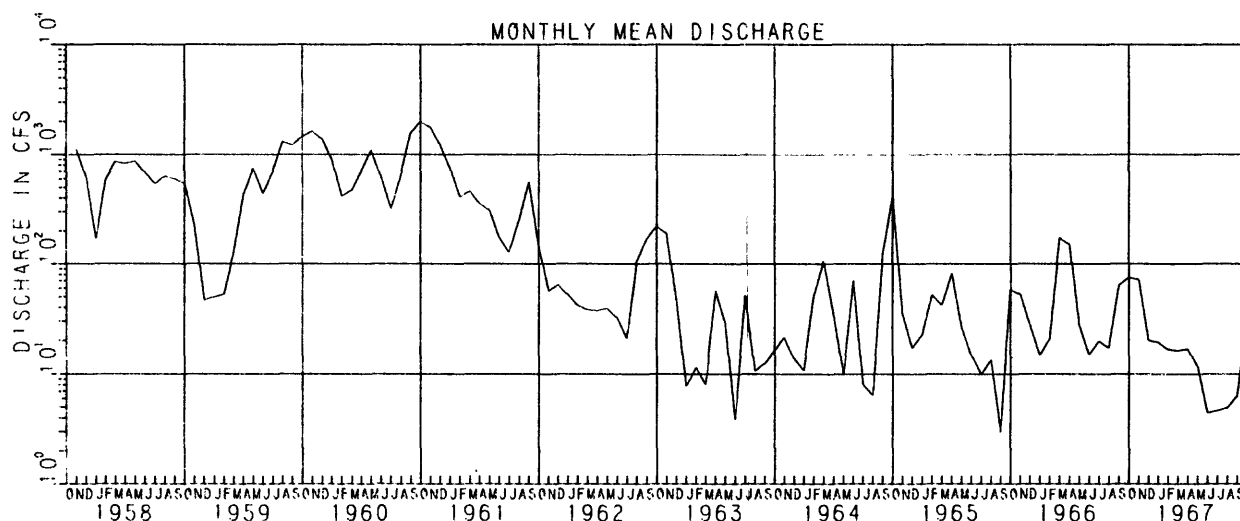
LOCATION.--Lat 27°23'56", long 81°09'45", in SE¼ sec.30, T.35 S., R.32 E., Highlands County, Hydrologic Unit 03090101, at bridge on U.S. Highway 98, 100 ft (30.5 m) downstream from Seaboard Coast Line Railroad bridge, 1.5 miles (2.4 km) upstream from Kissimmee River, and 4.5 miles (7.2 km) northwest of Cornwell.

PERIOD OF RECORD.--October 1933 to September 1967.

REMARKS.--June 1949 to July 1962, slight regulation at low flow by operation of control structure above station, and some diversions at times during high water from Lake Istokpoga into Indian Prairie and Harney Pond Canals when levees on southeast on southeast shore of lake were overtopped or washed out. Since July 21, 1962, flow from Lake Istokpoga regulated by control structure 68 on Canal 41A on southeast shore of lake, and minor diversion regulated above station in Istokpoga Canal. No low flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--34 years, 390 ft<sup>3</sup>/s (11.0 m<sup>3</sup>/s) 282,300 acre-feet per year (348 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,240 ft<sup>3</sup>/s (63.4 m<sup>3</sup>/s) Sept. 25, 26, 1960; no flow May 22 to June 15, 1949, and many days during period February to June 1956, caused by temporary dams upstream.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	108	12418	100.0	12	5.1	168	11859	95.5	24	190.0	777	7821	62.9
1	0.1	35	12310	99.1	13	6.9	174	11691	94.1	25	260.0	1494	7044	56.7
2	0.2	60	12275	98.8	14	9.4	237	11517	92.7	26	360.0	1331	5550	44.6
3	0.3	52	12215	98.4	15	13.0	433	11280	90.8	27	480.0	1673	4219	33.9
4	0.5	22	12163	97.9	16	17.0	302	10847	87.3	28	650.0	1395	2546	20.5
5	0.6	20	12141	97.8	17	23.0	121	10545	84.9	29	890.0	677	1151	9.2
6	0.8	5	12121	97.6	18	32.0	312	10424	83.9	30	1200.0	329	474	3.8
7	1.1	6	12116	97.6	19	43.0	408	10112	81.4	31	1600.0	142	145	1.1
8	1.5	65	12110	97.5	20	58.0	350	9704	78.1	32	2200.0	3	3	
9	2.1	32	12045	97.0	21	78.0	471	9354	75.3					
10	2.8	65	12013	96.7	22	110.0	460	8883	71.5					
11	3.8	89	11948	96.2	23	140.0	602	8423	67.8					

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02273000 KISSIMMEE RIVER AT S-65E, NEAR OKEECHOBEE, FL

LOCATION.--Lat 27°13'32", long 80°57'46", in NE¼ sec.30, T.37 S., R.34 E., Okeechobee County, Hydrologic Unit 03090101, at control structure 65E, 1.8 mi (2.9 km) downstream from State Highway 70, 8.2 mi (13.2 km) upstream from mouth, and about 8.5 mi (13.7 km) west of Okeechobee.

DRAINAGE AREA.--Indeterminate.

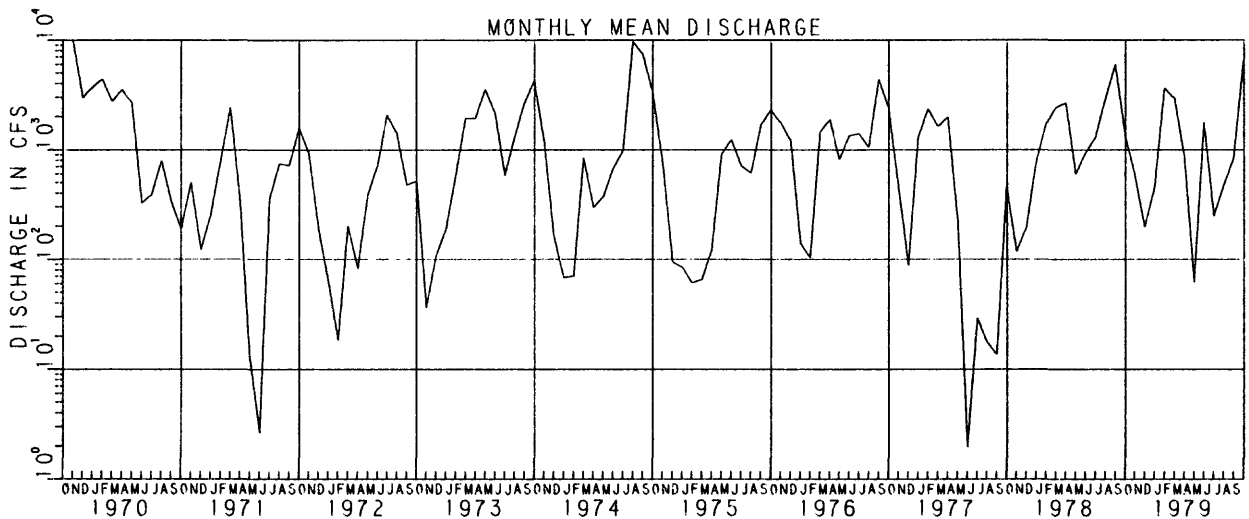
PERIOD OF RECORD.--October 1928 to September 1979.

REMARKS.--Flow completely regulated by operation of structure 65E beginning in October 1964. Records do not include diversions, since July 21, 1962, from Lake Istokpoga through control structure 68 on Canal 41A. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--34 years (water years 1929-62), 2,188 ft<sup>3</sup>/s (61.96 m<sup>3</sup>/s), 1,585,000 acre-ft/yr (1.95 km<sup>3</sup>/yr); 15 years (water years 1965-79), 1,416 ft<sup>3</sup>/s (40.10 m<sup>3</sup>/s), 1,026,000 acre-ft/yr (1.27 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,800 ft<sup>3</sup>/s (731 m<sup>3</sup>/s) Oct. 3, 1969; no flow on many days in some years after 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1928, resulting from hurricane, had a discharge of 20,000 ft<sup>3</sup>/s (566 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	68	5478	100.00	12	11.0	5	5001	91.29	24	690.0	345	2742	50.05
1	0.24	17	5410	98.76	13	15.0	9	4996	91.20	25	970.0	400	2357	43.03
2	0.34	8	5393	98.45	14	22.0	21	4987	91.04	26	1400.0	473	1957	35.72
3	0.48	31	5385	98.30	15	31.0	62	4966	90.65	27	1900.0	593	1484	27.09
4	0.68	45	5354	97.74	16	43.0	124	4904	89.52	28	2700.0	451	891	16.27
5	0.96	49	5309	96.91	17	61.0	114	4780	87.26	29	3900.0	210	440	8.03
6	1.4	57	5260	96.02	18	86.0	318	4666	85.16	30	5500.0	131	230	4.20
7	1.9	63	5203	94.98	19	120.0	229	4348	79.37	31	7800.0	79	99	1.81
8	2.7	67	5140	93.83	20	170.0	329	4119	75.19	32	11000.0	15	20	0.37
9	3.8	33	5073	92.61	21	240.0	352	3790	69.19	33	15000.0	4	5	0.09
10	5.4	27	5040	92.00	22	340.0	316	3438	62.76	34	22000.0	1	1	0.02
11	7.6	12	5013	91.51	23	490.0	380	3122	56.99					

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02273200 CANAL 41A AT S-68 AT LAKE ISTOKPOGA, NEAR LAKE PLACID, FL

LOCATION.--Lat 27°19'55", long 81°15'05", in sec.19 or 20, T.36 S., R.31 E., Highlands County, Hydrologic Unit 03090101, 350 ft (107 m) upstream from control structure 68 at Lake Istokpoga, and 7.5 mi (12.1 km) northeast of town of Lake Placid.

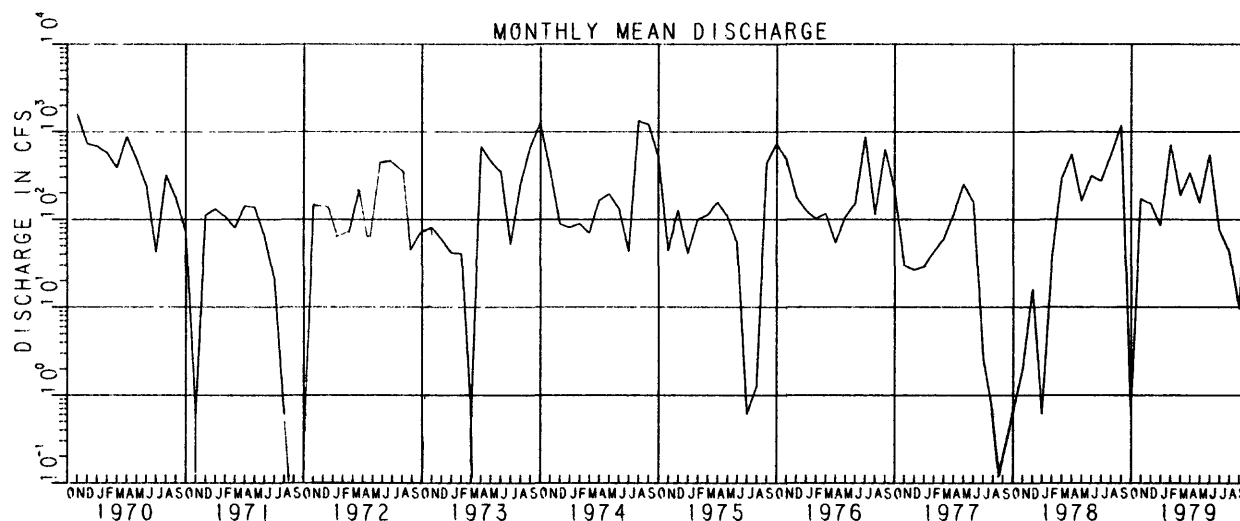
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1963 to September 1979.

REMARKS.--Flow completely regulated by operation of control structure 68. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--15 years (water years 1964-79) 280 ft<sup>3</sup>/s (7.93 m<sup>3</sup>/s), 202,900 acre-ft/yr (250 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,500 ft<sup>3</sup>/s (127 m<sup>3</sup>/s) Sept. 6, 1965; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	1525	5112	100.0	12	69.0	92	2953	57.8	24	560.0	120	835	16.3
1	10.0	16	3587	70.2	13	82.0	377	2861	56.0	25	670.0	93	715	13.9
2	12.0	5	3571	69.9	14	97.0	118	2484	48.6	26	800.0	121	622	12.1
3	14.0	1	3566	69.8	15	120.0	268	2366	46.3	27	950.0	117	501	9.8
4	17.0	15	3565	69.7	16	140.0	163	2098	41.0	28	1100.0	80	384	7.5
5	20.0	14	3550	69.4	17	160.0	362	1935	37.9	29	1300.0	138	304	5.9
6	24.0	13	3536	69.2	18	200.0	111	1573	30.8	30	1600.0	84	166	3.2
7	29.0	157	3523	68.9	19	230.0	137	1462	28.6	31	1900.0	51	82	1.6
8	34.0	38	3366	65.8	20	280.0	150	1325	25.9	32	2300.0	13	31	.6
9	41.0	27	3328	65.1	21	330.0	77	1175	23.0	33	2700.0	16	18	.3
10	48.0	53	3301	64.6	22	400.0	128	1098	21.5	34	3200.0	2	2	
11	58.0	295	3248	63.5	23	470.0	135	970	19.0					

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02273300 CANAL 41A AT S-84, NEAR OKEECHOBEE, FL

LOCATION.--Lat 27°12'55", long 80°58'55", in SW¼ sec.36, T.37 S., R.33 E., Highlands County, Hydrologic Unit 03090101, 500 ft (150 m) upstream from control structure 84, and 9.5 mi (15.3 km) west of Okeechobee.

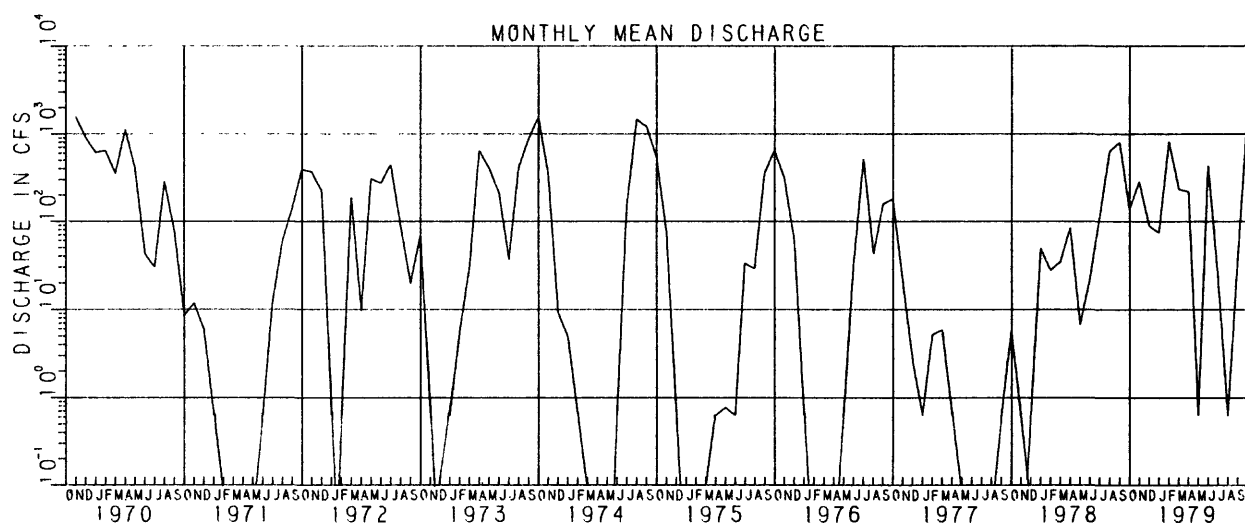
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1963 to September 1979.

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. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--15 years (water years 1965-79), 204 ft<sup>3</sup>/s (5.777 m<sup>3</sup>/s), 147,800 acre-ft/yr (182 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,910 ft<sup>3</sup>/s (167 m<sup>3</sup>/s) Aug. 29, 1974; maximum daily discharge, 4,080 ft<sup>3</sup>/s (116 m<sup>3</sup>/s) Oct. 3, 1969; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	3491	5478	100.0	12	5.9	18	1914	34.9	24	210.0	150	1239	22.6
1	0.2	1	1987	36.3	13	8.0	27	1896	34.6	25	280.0	189	1089	19.8
2	0.3	0	1986	36.3	14	11.0	1	1869	34.1	26	370.0	160	900	16.4
3	0.4	1	1986	36.3	15	14.0	6	1868	34.1	27	500.0	157	740	13.5
4	0.6	0	1985	36.2	16	19.0	13	1862	34.0	28	670.0	143	583	10.6
5	0.7	4	1985	36.2	17	26.0	12	1849	33.8	29	900.0	137	440	8.0
6	1.0	14	1981	36.2	18	35.0	15	1837	33.5	30	1200.0	154	303	5.5
7	1.4	0	1967	35.9	19	47.0	23	1822	33.3	31	1600.0	114	149	2.7
8	1.8	18	1967	35.9	20	63.0	35	1799	32.8	32	2200.0	22	35	.6
9	2.4	14	1949	35.6	21	85.0	62	1764	32.2	33	2900.0	12	13	.2
10	3.3	15	1935	35.3	22	110.0	134	1702	31.1	34	4000.0	1	1	
11	4.4	6	1920	35.0	23	150.0	329	1568	28.6					

SOUTH FLORIDA  
TAYLOR CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTH  
02274000 TAYLOR CREEK NEAR BASINGER, FL

LOCATION.--Lat 27°23'39", long 80°53'44", in SE 1/4 sec.26, T.35 S., R.34 E., Okeechobee County, Hydrologic Unit 03090102, bridge on State Highway 68, 800 ft (240 m) upstream from control structure 3, 0.8 mi (1.3 km) downstream from small tributary, 8.5 mi (13.7 km) east of Basinger, and 17 mi (27 km) upstream from mouth.

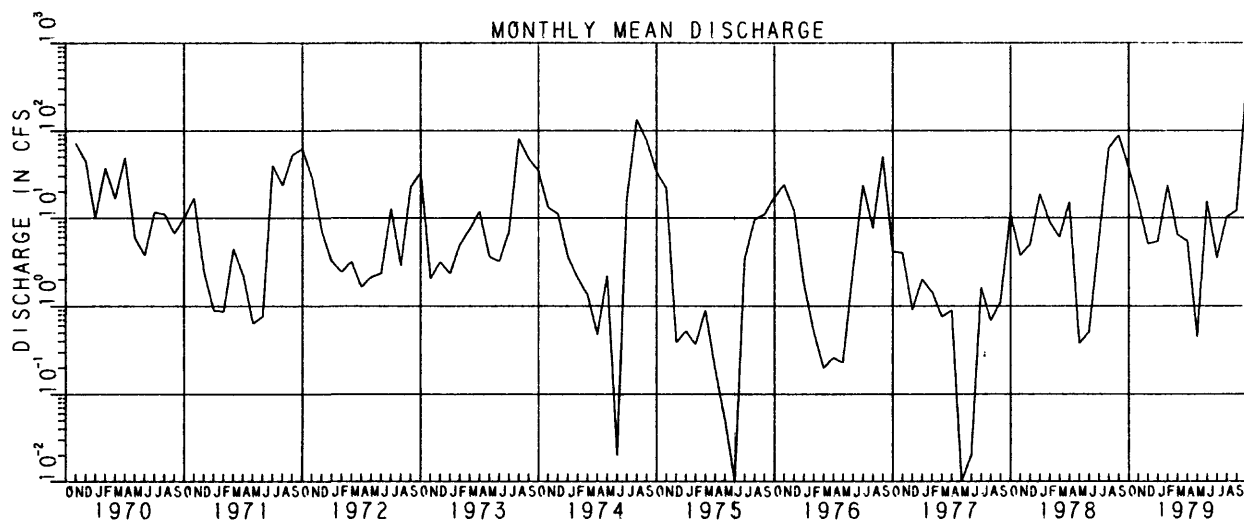
DRAINAGE AREA.--15.7 mi<sup>2</sup> (40.7 km<sup>2</sup>).

PERIOD OF RECORD.--June 1955 to September 1979.

REMARKS.--Some diversion during low flow for irrigation. Since February 1965 flow regulated at station by operation of control structure 3.

AVERAGE DISCHARGE.--24 years, 15.3 ft<sup>3</sup>/s (0.433 m<sup>3</sup>/s), 11,080 acre-ft/yr (13.7 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft<sup>3</sup>/s (71.9 m<sup>3</sup>/s) Oct. 15, 1956; no flow at times in most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	662	8766	100.00	12	0.72	397	6079	69.35	24	52.0	181	594	6.74
1	0.01	19	8104	92.45	13	1.0	580	5682	64.82	25	74.0	162	413	4.71
2	0.02	18	8085	92.23	14	1.5	569	5102	58.20	26	110.0	86	251	2.86
3	0.03	8	8067	92.03	15	2.1	575	4533	51.71	27	150.0	74	165	1.88
4	0.04	27	8059	91.93	16	3.0	637	3958	45.15	28	220.0	47	91	1.04
5	0.06	43	8032	91.63	17	4.3	551	3321	37.89	29	310.0	15	44	0.50
6	0.09	358	7989	91.14	18	6.1	476	2770	31.60	30	440.0	15	26	0.30
7	0.12	71	7631	87.05	19	8.7	365	2294	26.17	31	630.0	5	11	0.13
8	0.17	317	7560	86.24	20	12.0	489	1929	22.01	32	900.0	5	6	0.07
9	0.25	347	7243	82.63	21	18.0	323	1440	16.43	33	1300.0	1	1	0.01
10	0.35	337	6896	78.67	22	25.0	278	1117	12.74					
11	0.50	480	6559	74.82	23	36.0	245	839	9.57					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.05	0.08	0.05	0.00	0.00	0.05	0.14	0.10	0.51	0.20	0.06	0.15

## SOUTH FLORIDA

## TAYLOR CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTH

02274495 WILLIAMSON DITCH AT S-7, NEAR OKEECHOBEE, FL

LOCATION.--Lat 27°17'45", long 80°49'35", in NW¼ sec.34, T.36 S., R.35 E., Okeechobee County, Hydrologic Unit 02090102, 125 ft (40 m) upstream from control structure 7, 450 ft (135 m) upstream from mouth, and 3.6 mi (5.8 km) north of Okeechobee.

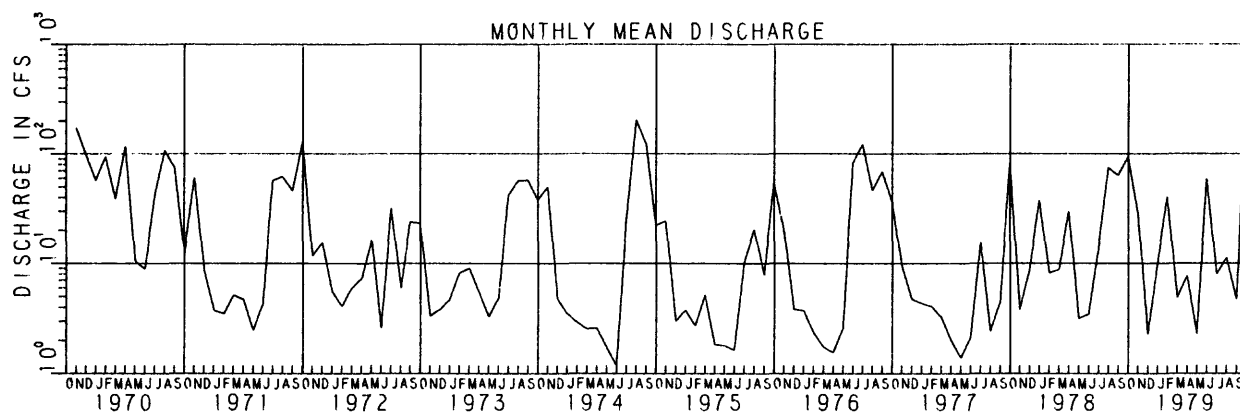
DRAINAGE AREA.--35.4 mi<sup>2</sup> (91.7 km<sup>2</sup>).

PERIOD OF RECORD.--March 1964 to September 1979.

REMARKS.--Flow regulated at times by stoplog control 2 mi (3 km) upstream. No low-flow data contained in Hughes (1981), or listed below

AVERAGE DISCHARGE.--15 years, 33.2 ft<sup>3</sup>/s (0.940 m<sup>3</sup>/s), 12.74 in/yr (324 mm/yr), 24,050 acre-ft/yr (29.7 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s) Aug. 28, 1964; no flow for part of each day May 21,24,26,27, June 1-3, 1965.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5478	100.0	12	4.7	403	2958	54.0	24	79.0	116	630	11.5
1	0.3	2	5478	100.0	13	5.9	300	2555	46.6	25	100.0	147	514	9.3
2	0.4	12	5476	100.0	14	7.5	258	2255	41.2	26	130.0	76	367	6.6
3	0.6	0	5464	99.7	15	9.5	178	1997	36.5	27	160.0	78	291	5.3
4	0.7	29	5464	99.7	16	12.0	198	1819	33.2	28	200.0	70	213	3.8
5	0.9	38	5435	99.2	17	15.0	149	1621	29.6	29	260.0	49	143	2.6
6	1.1	115	5397	98.5	18	19.0	141	1472	26.9	30	330.0	38	94	1.7
7	1.4	218	5282	96.4	19	24.0	151	1331	24.3	31	410.0	29	56	1.0
8	1.8	316	5064	92.4	20	31.0	132	1180	21.5	32	520.0	17	27	.4
9	2.3	342	4748	86.7	21	39.0	144	1048	19.1	33	660.0	10	10	.1
10	2.9	702	4406	80.4	22	49.0	132	904	16.5	34	840.0			
11	3.7	746	3704	67.6	23	62.0	142	772	14.1					

## SOUTH FLORIDA

## TAYLOR CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTH

02274500 TAYLOR CREEK ABOVE OKEECHOBEE, FL

LOCATION.--Lat 27°17'03", long 80°49'20", in NW¼ sec.3, T.37 S., R.35 E., Okeechobee County, Hydrologic Unit 03090102, at county bridge 0.8 mi (1.3 km) downstream from Williamson Ditch, 2.8 mi (4.5 km) north of Okeechobee, and 8.7 mi (14.0 km) upstream from mouth at control structure 191.

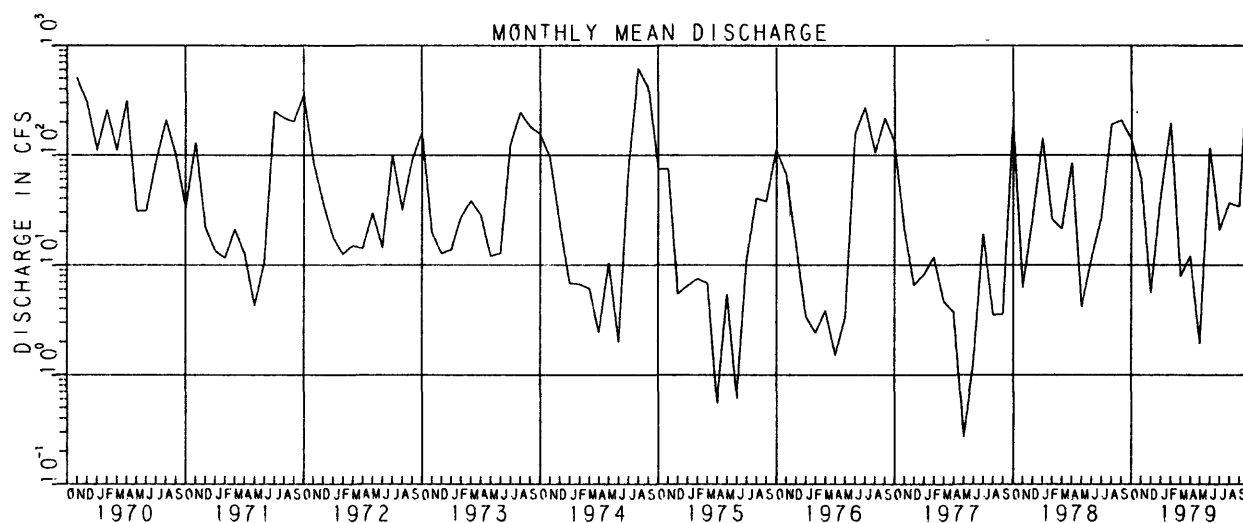
DRAINAGE AREA.--98.7 mi<sup>2</sup> (255.6 km<sup>2</sup>).

PERIOD OF RECORD.--June 1955 to September 1979. June 1955 to June 1973 used in this analysis.

REMARKS.--Beginning in July 1973, flow regulated by control structure 191. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--24 years, 98.6 ft<sup>3</sup>/s (2.792 m<sup>3</sup>/s), 71,440 acre-ft/yr (88.1 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,930 ft<sup>3</sup>/s (196 m<sup>3</sup>/s) Oct. 16, 1956; no flow at times in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	1024	8766	100.0	12	5.1	472	6512	74.3	24	260.0	252	891	10.1
1	0.1	16	7742	88.3	13	7.1	554	6040	68.9	25	360.0	221	639	7.2
2	0.2	9	7726	88.1	14	9.8	711	5486	62.6	26	500.0	156	418	4.7
3	0.3	6	7717	88.0	15	14.0	667	4775	54.5	27	700.0	125	262	2.9
4	0.4	10	7711	88.0	16	19.0	527	4108	46.9	28	970.0	67	137	1.5
5	0.5	15	7701	87.9	17	26.0	480	3581	40.9	29	1300.0	41	70	.7
6	0.7	55	7686	87.7	18	36.0	421	3101	35.4	30	1900.0	23	29	.3
7	1.0	132	7631	87.1	19	51.0	396	2680	30.6	31	2600.0	1	6	
8	1.4	147	7499	85.5	20	70.0	375	2284	26.1	32	3600.0	4	5	
9	1.9	280	7352	83.9	21	98.0	398	1909	21.8	33	5000.0	1	1	
10	2.6	254	7072	80.7	22	140.0	325	1511	17.2					
11	3.7	306	6818	77.8	23	190.0	295	1186	13.5					

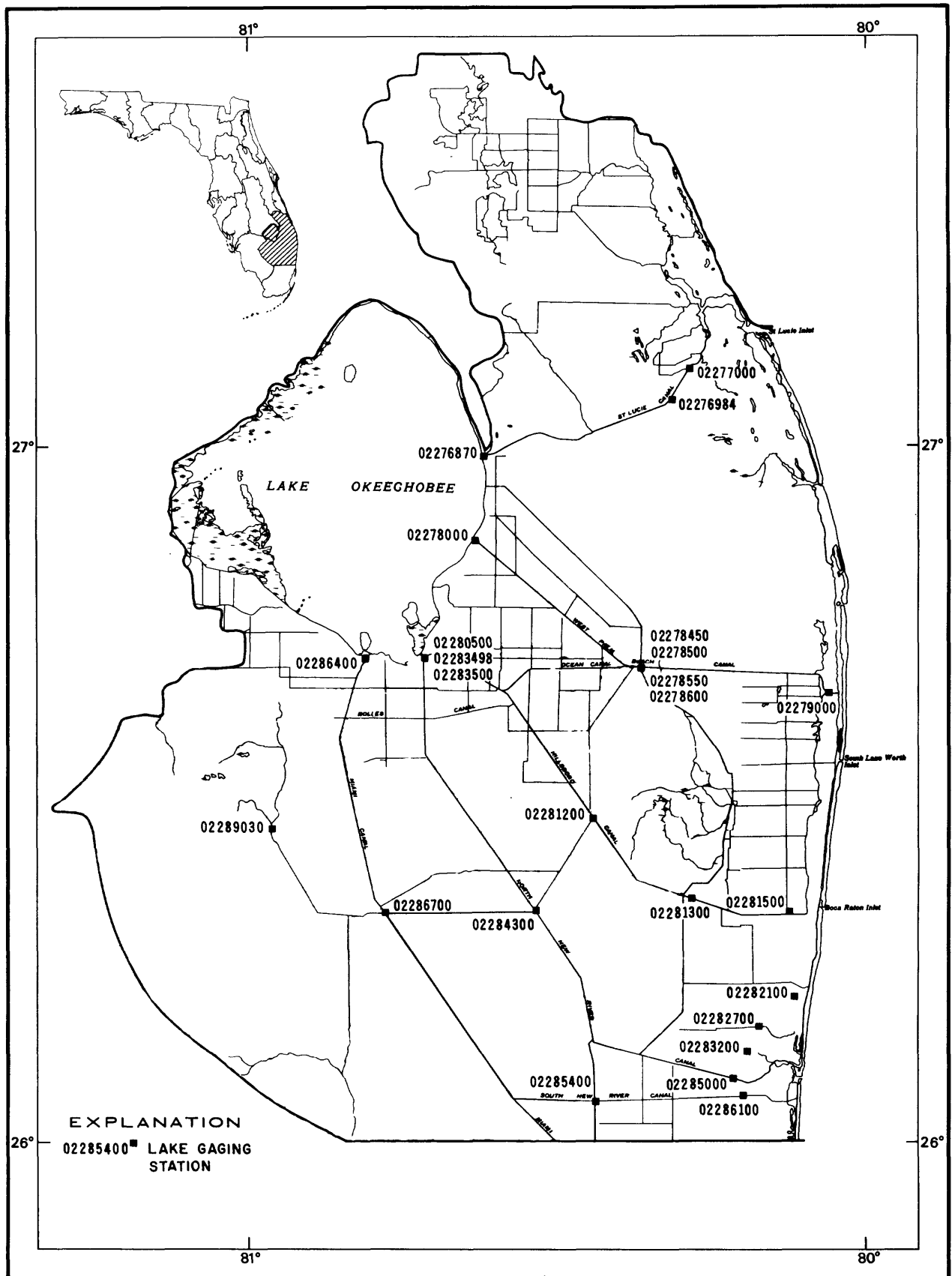
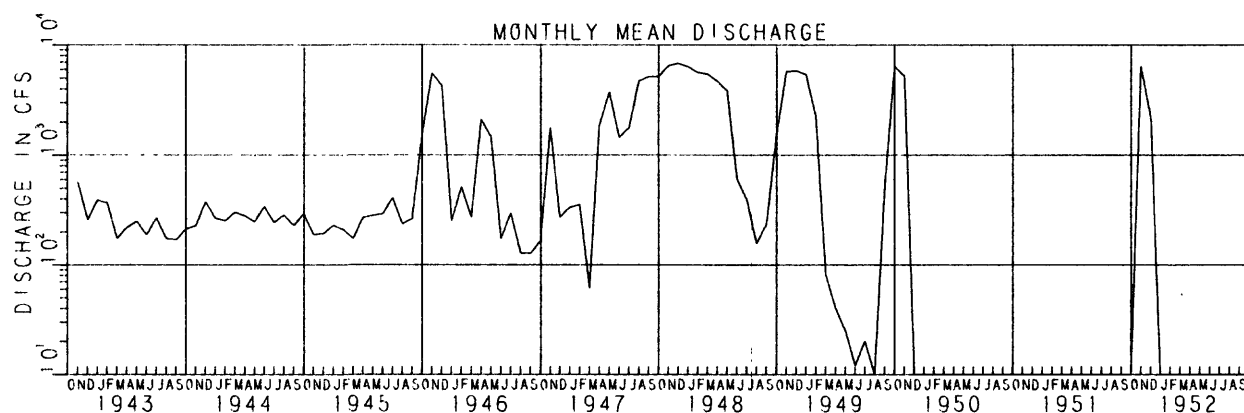


Figure 8. --Stations in the Everglades and the southeastern coastal area north of latitude 26 degrees.

## 02276870 ST. LUCIE CANAL AT LAKE OKEECHOBEE, FL

EXTREMES FOR PERIOD OF RECORD.--1931-52: Maximum discharge, 7,470 ft<sup>3</sup>/s (212 m<sup>3</sup>/s) Nov. 2, 6, 1951. Lock closed for many days in most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	298	7671	100.0	12	91.0	152	5386	70.2	24	1000.0	101	2411	31.4
1	10.0	1303	7373	96.1	13	110.0	231	5234	68.2	25	1200.0	175	2310	30.1
2	12.0	32	6070	79.1	14	140.0	314	5003	65.2	26	1500.0	97	2135	27.8
3	15.0	0	6038	78.7	15	170.0	192	4689	61.1	27	1800.0	102	2038	26.5
4	18.0	68	6038	78.7	16	200.0	358	4497	58.6	28	2200.0	187	1936	25.2
5	22.0	38	5970	77.8	17	250.0	383	4139	54.0	29	2700.0	210	1749	22.8
6	27.0	20	5932	77.3	18	300.0	374	3756	49.0	30	3300.0	552	1539	20.0
7	33.0	129	5912	77.1	19	370.0	330	3382	44.1	31	4100.0	529	987	12.8
8	41.0	5	5783	75.4	20	450.0	272	3052	39.8	32	5000.0	283	458	5.9
9	50.0	183	5778	75.3	21	550.0	132	2780	36.2	33	6100.0	162	175	2.2
10	61.0	71	5595	72.9	22	670.0	126	2648	34.5	34	7400.0	13	13	.1
11	74.0	138	5524	72.0	23	820.0	111	2522	32.9					



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

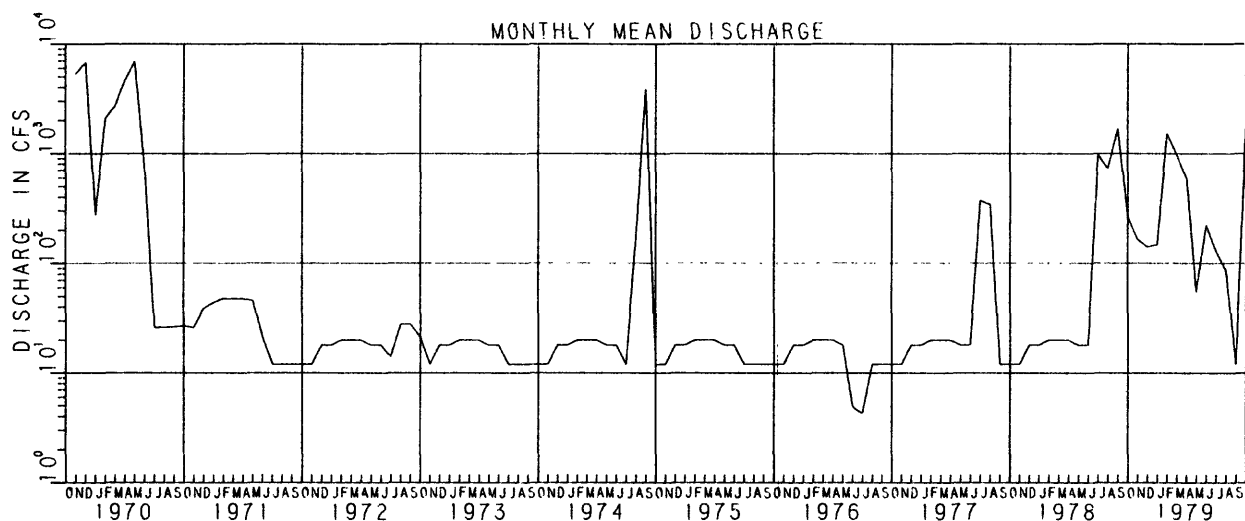
LOCATION.--Lat 27°06'39", long 80°17'06", in Hanson Grant, T.39 S., R.41 E., Martin County, Hydrologic Unit 03090202, at lock, 6.3 mi (10.1 km) southwest of Stuart.

PERIOD OF RECORD.--October 1952 to September 1979.

REMARKS.--Flow regulated by lock near Stuart. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--27 years, 934 ft<sup>3</sup>/s (26.5 m<sup>3</sup>/s), 676,200 acre-ft/yr (834 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft<sup>3</sup>/s (326 m<sup>3</sup>/s) Mar. 26, 1970; lock closed no flow Jan. 8-10, 1979.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	9861	100.0	12	57.0	13	2051	20.8	24	1000.0	102	1837	18.6
1	4.0	58	9861	100.0	13	72.0	7	2038	20.7	25	1300.0	105	1735	17.5
2	5.1	0	9803	99.4	14	92.0	10	2031	20.6	26	1700.0	39	1630	16.5
3	6.5	0	9803	99.4	15	120.0	6	2021	20.5	27	2100.0	312	1591	16.1
4	8.2	0	9803	99.4	16	150.0	15	2015	20.4	28	2700.0	126	1279	12.9
5	10.0	4513	9803	99.4	17	190.0	15	2000	20.3	29	3400.0	99	1153	11.6
6	13.0	0	5290	53.6	18	240.0	18	1985	20.1	30	4300.0	121	1054	10.6
7	17.0	1629	5290	53.6	19	310.0	22	1967	19.9	31	5500.0	592	933	9.4
8	22.0	210	3661	37.1	20	390.0	28	1945	19.7	32	7000.0	290	341	3.4
9	28.0	361	3451	35.0	21	500.0	18	1917	19.4	33	9000.0	49	51	.5
10	35.0	794	3090	31.3	22	630.0	39	1899	19.3	34	11000.0	2	2	
11	45.0	245	2296	23.3	23	800.0	23	1860	18.9					

SOUTH FLORIDA  
EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278000 WEST PALM BEACH CANAL AT HGS-5, AT CANAL POINT, FL

LOCATION.--Lat 26°51'5" long 80°37'55", in NE¼ sec.33, T.41 S.; R.37 E.; Palm Beach County Hydrologic Unit 03090202, in hurricane gate structure 5 at Lake Okeechobee, 200 ft (61 m) upstream from bridge on U.S. Highway 441 at Canal Point.

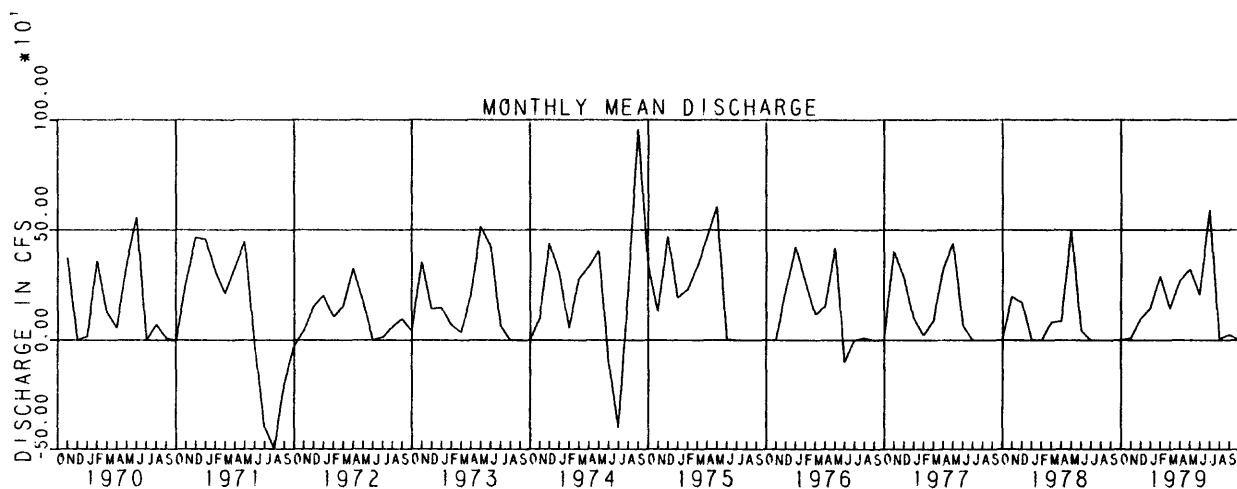
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1979.

REMARKS.--Flow regulated at station by operation of hurricane gates. Flow occasionally reversed after periods of considerable rainfall because of downstream natural drainage and pumpage from agricultural lands in the Everglades (negative figures indicate flow reversed). No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--39 years (water years 1941-79), 168 ft<sup>3</sup>/s (4.76 m<sup>3</sup>/s), 121,600 acre-ft/yr (150 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 1,610 ft<sup>3</sup>/s (45.6 m<sup>3</sup>/s) Oct. 2, 1959; maximum daily reverse flow, 1,760 ft<sup>3</sup>/s (49.8 m<sup>3</sup>/s) June 15, 1942.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-1700.0	0	7268	100.0	12	-10.0	3	6837	94.1	24	240.0	271	2524	34.7
1	-1500.0	0	7268	100.0	13	-5.0	4	6834	94.0	25	280.0	273	2253	30.9
2	-1300.0	2	7268	100.0	14	0.0	3284	6830	94.0	26	320.0	279	1980	27.2
3	-1100.0	5	7266	100.0	15	2.0	1	3546	48.8	27	360.0	232	1701	23.4
4	-1000.0	121	7261	99.9	16	5.0	5	3545	48.8	28	400.0	497	1469	20.2
5	-500.0	76	7140	98.2	17	10.0	22	3540	48.7	29	480.0	406	972	13.3
6	-400.0	42	7064	97.2	18	30.0	45	3518	48.4	30	580.0	267	566	7.7
7	-300.0	71	7022	96.6	19	60.0	109	3473	47.8	31	720.0	204	299	4.1
8	-200.0	58	6951	95.6	20	100.0	80	3364	46.3	32	900.0	83	95	1.3
9	-100.0	31	6893	94.8	21	120.0	239	3284	45.2	33	1200.0	10	12	.1
10	-50.0	15	6862	94.4	22	160.0	212	3045	41.9	34	1500.0	?	?	
11	-30.0	10	6847	94.2	23	200.0	304	2833	39.0					

SOUTH FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278450 WEST PALM BEACH CANAL ABOVE S-5A, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°41'05", long 80°22'15", in SW¼ sec.32, T.43 S.; R.43 E.; Palm Beach County, Hydrologic Unit 03090202, 500 ft (152 m) upstream from pump station S-5A, 0.3 mi (0.5 km) upstream from Levee 8 Canal, 1.1 mi (1.8 km) downstream from bridge on U.S. Highway 441 and Cross Canal, and 6 mi (10 km) west of Loxahatchee.

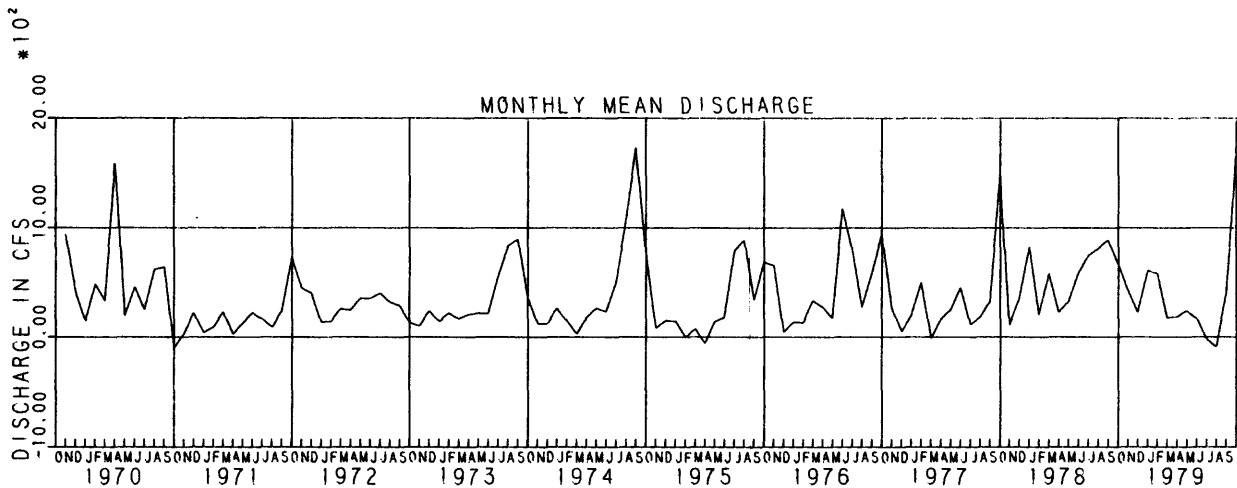
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to September 1979.

REMARKS.--Flow regulated primarily by pumpage at S-5A and to a lesser extent by operation of control structure 5A-W. Major regulation above the station occurs in Cross Canal, 1.5 mi (2.4 km) upstream, and at hurricane gate structure 5 at Lake Okeechobee, 20 mi (32 km) upstream. Discharge is the difference between pumpage at S-5A and gate discharge at S-5A-W. Negative figures indicate flow to the west. See records on diversions to Conservation Area No. 1 at S-5A, near Loxahatchee (station 02278500; pump station S-5A, upper), for table of daily gage height. No low-flow data contained Hughes (1981), or listed below.

AVERAGE DISCHARGE.--22 years, 440 ft³/s (12.5 m³/s), 318,500 acre-ft/yr (393 hm³/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 5,230 ft³/s (148 m³/s) Mar. 27, 1970; maximum daily reverse flow, 775 ft³/s (22.0 m³/s) Oct. 26, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-775.0	5	8027	100.0	12	4.0	32	6316	78.7	24	210.0	709	4066	50.6
1	-600.0	5	8022	99.9	13	8.0	37	6284	78.3	25	300.0	635	3357	41.8
2	-450.0	14	8017	99.9	14	12.0	30	6247	77.8	26	400.0	946	2722	33.9
3	-300.0	66	8003	99.7	15	16.0	31	6217	77.5	27	600.0	407	1776	22.1
4	-200.0	199	7937	98.9	16	20.0	75	6186	77.1	28	820.0	473	1369	17.0
5	-100.0	169	7738	96.4	17	28.0	100	6111	76.1	29	1200.0	316	896	11.1
6	-50.0	204	7569	94.3	18	38.0	104	6011	74.9	30	1600.0	379	580	7.2
7	-10.0	65	7365	91.8	19	50.0	213	5907	73.6	31	2200.0	150	201	2.5
8	0.0	959	7300	90.9	20	70.0	204	5694	70.9	32	3000.0	49	51	.6
9	0.5	0	6341	79.0	21	90.0	435	5490	68.4	33	5000.0	2	2	
10	1.0	9	6341	79.0	22	120.0	497	5055	63.0					
11	2.0	16	6332	78.9	23	160.0	492	4558	56.8					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278500 DIVERSIONS TO CONSERVATION AREA NO. 1 AT S-5A AND S-5A-S, NEAR LOXAHATCHEE, FL

LOCATIONS.--Lat 26°41'00", long 80°22'10", in S1/2 sec.32, T.43, S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, at pump station S-5A, 1.5 mi (2.4 km) downstream from Cross Canal and 6 mi (9.7 km) west of Loxahatchee.

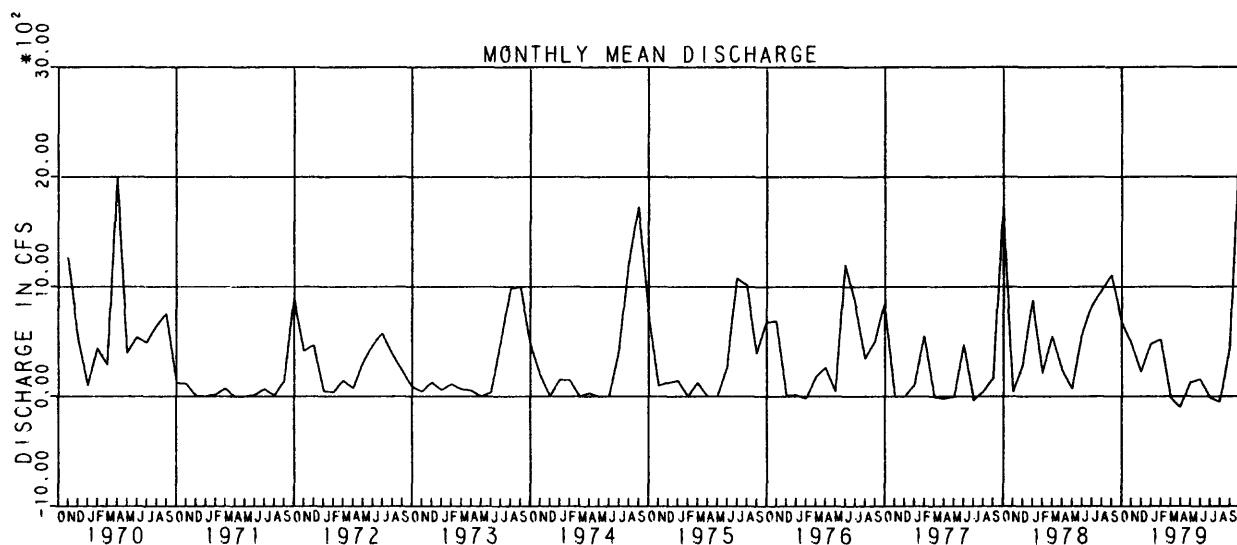
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to September 1979.

REMARKS.--Normal flow is considered as that to the south into Conservation Area No. 1. Flow is controlled by S-5A pumpage, syphoning and regulation of Cross Canal, 1.5 mi (2.4 km) upstream, and hurricane gate structure 5, 20 mi (32 km) upstream. Negative figures indicate releases from gate S-5A-S. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--22 years, 387 ft<sup>3</sup>/s (11.0 m<sup>3</sup>/s), 280,200 acre-ft/yr (345 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 7,040 ft<sup>3</sup>/s (199 m<sup>3</sup>/s) Mar. 28, 1970; maximum daily reverse flow, 1,180 ft<sup>3</sup>/s (33.4 m<sup>3</sup>/s) May 25, 1964; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-1200.0	4	8003	100.0	12	0.0	4693	7744	96.8	24	340.0	190	2297	28.7
1	-1000.0	4	7999	100.0	13	5.0	7	3051	38.1	25	440.0	193	2107	26.3
2	-800.0	7	7995	99.9	14	10.0	27	3044	38.0	26	550.0	176	1914	23.9
3	-600.0	16	7988	99.8	15	20.0	21	3017	37.7	27	650.0	258	1738	21.7
4	-400.0	15	7972	99.6	16	30.0	36	2996	37.4	28	800.0	347	1480	18.4
5	-300.0	41	7957	99.4	17	40.0	84	2960	37.0	29	1100.0	199	1133	14.1
6	-200.0	68	7916	98.9	18	60.0	69	2876	35.9	30	1300.0	330	934	11.6
7	-100.0	37	7848	98.1	19	80.0	68	2807	35.1	31	1700.0	347	604	7.5
8	-50.0	37	7811	97.6	20	110.0	89	2739	34.2	32	2400.0	215	257	3.2
9	-30.0	23	7774	97.1	21	150.0	89	2650	33.1	33	4000.0	41	42	.5
10	-10.0	3	7751	96.9	22	200.0	90	2561	32.0	34	7000.0	1	1	
11	-5.0	4	7748	96.8	23	250.0	174	2471	30.9					

SOUTH FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278550 LEVEE 8 CANAL AT WEST PALM BEACH CANAL, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°41'05", long 80°21'35", in SE¼ sec.32, T.43 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, at bridge on U.S. Highway 441, 50 ft (15 m) above mouth and West Palm Beach Canal, 0.2 mi (0.3 km) east of pump station S-5A, and 6 mi (10 km) west of Loxahatchee.

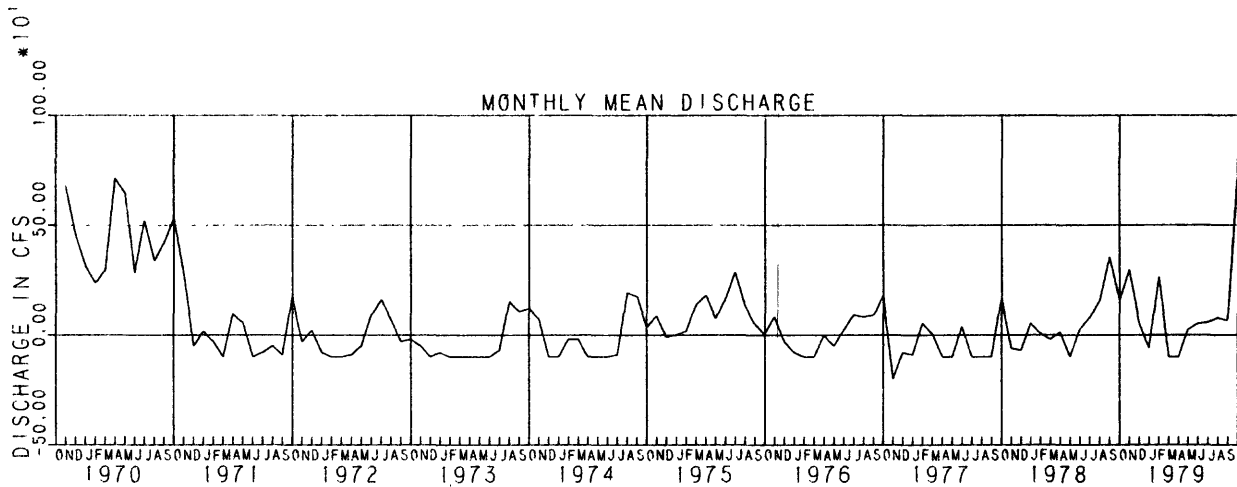
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1960 to September 1979.

REMARKS.--Flow regulated by operation of S-5A-E, S-5A-S, S-5A-W just downstream and pumpage at S-5A. Gate operation and pumpage occasionally reverses the flow (negative figures indicate flow reversed). Discharge is summation of flows at S-5A-E, S-5A-S and S-5A-W. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--20 years, 145 ft³/s (4.12 m³/s), 105,000 acre-ft/yr (129 m³/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 2,190 ft³/s (62.0 m³/s) Mar. 31, 1970; maximum daily reverse flow, 1,270 ft³/s (36.0 m³/s) June 29, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-1200.0	5	6939	100.0	12	0.0	381	4691	67.6	24	95.0	49	3326	47.9
1	-1000.0	1	6934	99.9	13	1.0	8	4310	62.1	25	100.0	605	3277	47.2
2	-800.0	3	6933	99.9	14	2.0	19	4302	62.0	26	150.0	618	2672	38.5
3	-600.0	6	6930	99.9	15	4.0	42	4283	61.7	27	200.0	548	2054	29.6
4	-400.0	17	6924	99.8	16	8.0	41	4241	61.1	28	250.0	523	1506	21.7
5	-300.0	133	6907	99.5	17	12.0	45	4200	60.5	29	320.0	516	983	14.1
6	-200.0	892	6774	97.6	18	17.0	75	4155	59.9	30	450.0	190	467	6.7
7	-100.0	655	5882	84.8	19	23.0	91	4080	58.8	31	600.0	140	277	3.9
8	-50.0	237	5227	75.3	20	31.0	110	3989	57.5	32	800.0	81	137	1.9
9	-30.0	213	4990	71.9	21	42.0	124	3879	55.9	33	1200.0	54	56	.8
10	-10.0	44	4777	68.8	22	56.0	230	3755	54.1	34	2100.0	2	2	
11	-5.0	42	4733	68.2	23	76.0	199	3525	50.8					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278600 WEST PALM BEACH CANAL BELOW S-5A-E, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°41'05", long 80°21'50", in SE¼ sec.32, T.43 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, 350 ft (107 m) downstream from control structure 5A-E, and 6 mi (10 km) west of Loxahatchee.

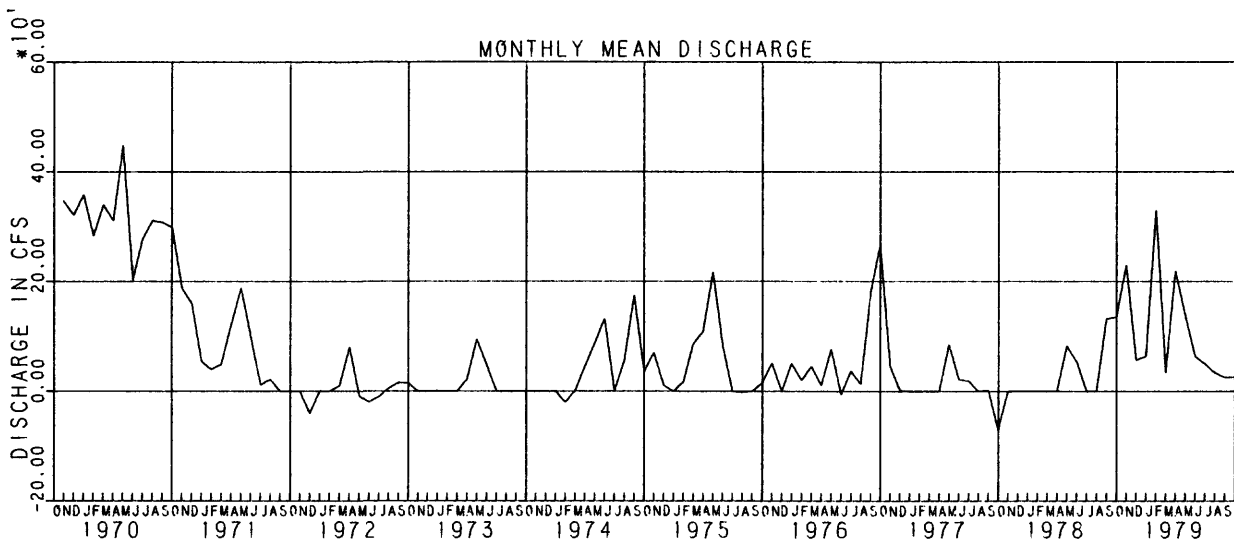
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1955 to September 1979.

REMARKS.--Normal flow to east regulated at S-5A-E for irrigation and drainage. Flow diverted above station through S-5A-S and by pumpage at S-5A. Flow materially affected by regulation of Cross Canal 1.5 mi (2.4 km) upstream and hurricane gate structure 5, 20 mi (32 km) upstream. Negative figures indicate flow to the west. Discharge computed from relation between discharge, head, and gate openings at S-5A-E. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--23 year, 194 ft<sup>3</sup>/s (5.49 m<sup>3</sup>/s), 140,500 acre-ft/yr (173 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 960 ft<sup>3</sup>/s (27.2 m<sup>3</sup>/s) Oct. 3, 1959; maximum daily reverse flow, 811 ft<sup>3</sup>/s (23.0 m<sup>3</sup>/s) Sept. 3, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-800.0	4	8766	100.0	12	22.0	64	5302	60.5	24	220.0	360	3277	37.3
1	-600.0	5	8762	100.0	13	30.0	51	5238	59.8	25	260.0	309	2917	33.2
2	-500.0	7	8757	99.9	14	40.0	146	5187	59.2	26	300.0	287	2608	29.7
3	-400.0	10	8750	99.8	15	50.0	89	5041	57.5	27	330.0	501	2321	26.4
4	-300.0	14	8740	99.7	16	65.0	89	4952	56.5	28	380.0	298	1820	20.7
5	-200.0	14	8726	99.5	17	80.0	255	4863	55.5	29	420.0	403	1612	18.3
6	-100.0	10	8712	99.4	18	95.0	158	4608	52.6	30	500.0	409	1209	13.7
7	-50.0	9	8702	99.3	19	110.0	178	4450	50.8	31	580.0	594	800	9.1
8	0.0	3359	8693	99.2	20	125.0	98	4272	48.7	32	700.0	187	206	2.3
9	5.0	4	5334	60.8	21	140.0	334	4174	47.6	33	830.0	18	19	.2
10	10.0	7	5330	60.8	22	170.0	260	3840	43.8	34	960.0	1	1	
11	15.0	21	5323	60.7	23	190.0	303	3580	40.8					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL

LOCATION.--Lat 26°38'40", long 80°03'24", in NE¼ sec.16, T.44 S., R.43 E., Palm Beach County, Hydrologic Unit 03090202, at lock and control structure, 20 ft (6.1 m) upstream from bridge on U.S. Highway 1, and 4.9 mi (7.9 km) south of courthouse in West Palm Beach.

DRAINAGE AREA.--Indeterminate.

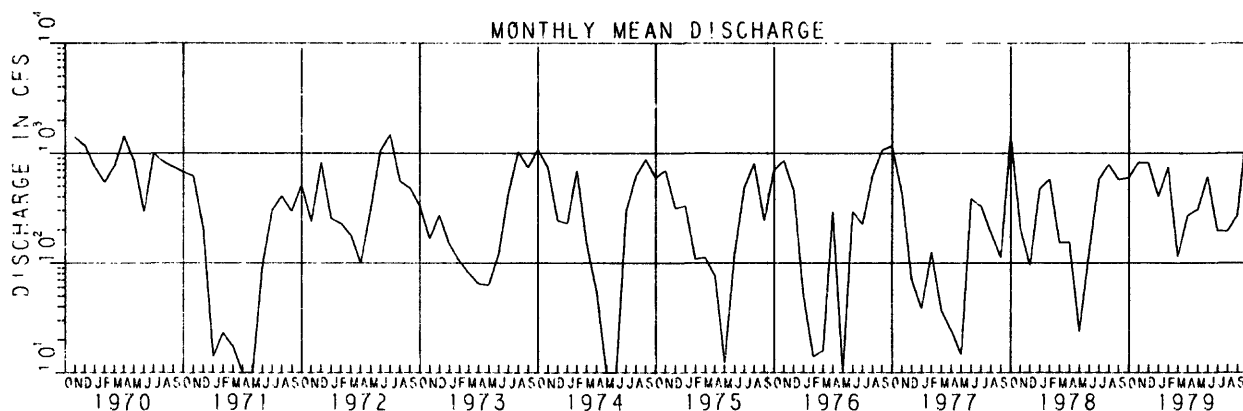
PERIOD OF RECORD.--November 1939 to September 1979.

REMARKS.--Flow regulated by operation of control structure and gates in lock chamber for irrigation and drainage purposes. Lock chamber not used for navigation. Since January 1954, flow affected by control structures 20 mi (32 km) upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--39 years (water years 1941-79), 746 ft<sup>3</sup>/s (21.1 m<sup>3</sup>/s), 540,100 acre-ft/yr (666 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,320 ft<sup>3</sup>/s (151 m<sup>3</sup>/s) Apr. 18, 1942; flow consists of leakage estimated as 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) for many days in 1967-1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 23, 24, 1924 had a discharge 8,570 ft<sup>3</sup>/s (243 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14579	100.0	12	81.0	144	13200	90.5	24	790.0	1255	5141	35.2
1	10.0	720	14579	100.0	13	98.0	196	13056	89.6	25	960.0	1302	3886	26.6
2	12.0	30	13859	95.1	14	120.0	249	12860	88.2	26	1200.0	667	2584	17.7
3	15.0	18	13829	94.9	15	140.0	332	12611	86.5	27	1400.0	595	1917	13.1
4	18.0	20	13811	94.7	16	170.0	477	12279	84.2	28	1700.0	471	1322	9.0
5	21.0	28	13791	94.6	17	210.0	464	11802	81.0	29	2000.0	406	851	5.8
6	26.0	69	13763	94.4	18	250.0	633	11338	77.8	30	2500.0	208	445	3.0
7	31.0	45	13694	93.9	19	310.0	664	10705	73.4	31	3000.0	117	237	1.6
8	38.0	124	13649	93.6	20	370.0	1124	10041	68.9	32	3600.0	93	120	.8
9	46.0	84	13525	92.8	21	450.0	1057	8917	61.2	33	4400.0	26	27	.1
10	55.0	136	13441	92.2	22	540.0	1237	7860	53.9	34	5300.0	1	1	
11	67.0	105	13305	91.3	23	650.0	1482	6623	45.4					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02280500 HILLSBORO CANAL BELOW HGS-4, NEAR SOUTH BAY, FL

LOCATION.--Lat 26°42'00", long 80°42'45", in SW¼ sec.35, T.43 S., R.36 E., Palm Beach County, Hydrologic Unit 03090202, 200 ft (61.01 m) downstream from North New River Canal, 1,000 ft (305 m) downstream from hurricane gate structure 4 and pump station 2 at Lake Okeechobee, and 2.5 mi (4.0 km) north of South Bay.

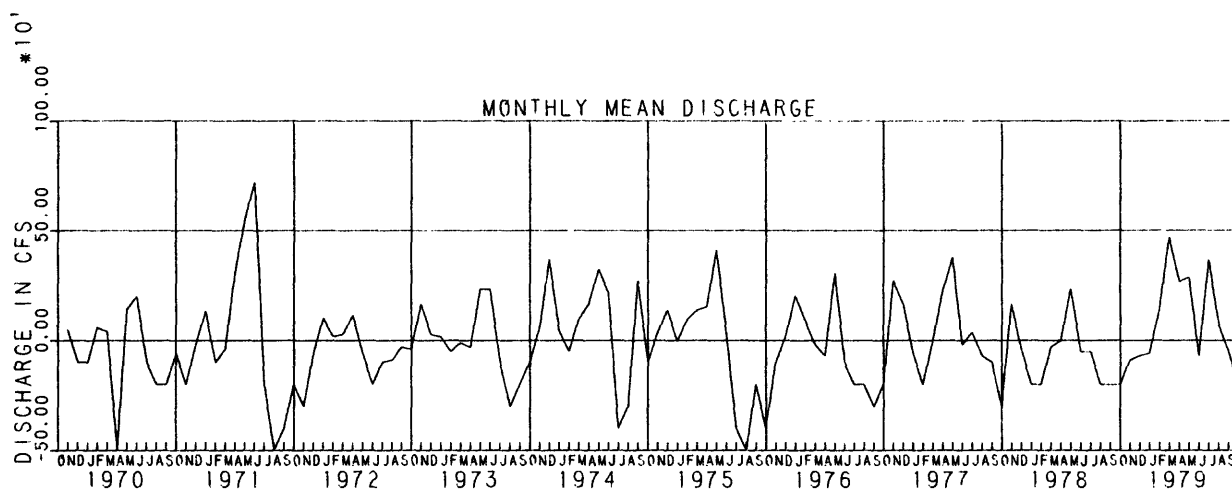
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1957 to September 1979.

REMARKS.--Flow regulated by hurricane gates and pump station at Lake Okeechobee. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades, or by the operation of pump station 2 (negative figures indicate flow reversed). No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--22 years, -33.5 ft<sup>3</sup>/s (-0.95 m<sup>3</sup>/s), -25,250 acre-ft/yr (-31.1 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 948 ft<sup>3</sup>/s (26.8 m<sup>3</sup>/s) May 5, 1966; maximum daily reverse flow, 1,760 ft<sup>3</sup>/s (49.8 m<sup>3</sup>/s) Mar. 30, 1970.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-1800.0	6	8035	100.0	12	1.0	7	3653	45.5	24	120.0	181	2651	32.9
1	-1400.0	45	8029	99.9	13	2.0	16	3646	45.4	25	140.0	223	2470	30.7
2	-1000.0	380	7984	99.4	14	4.0	31	3630	45.2	26	160.0	205	2247	27.9
3	-600.0	1759	7604	94.6	15	8.0	33	3599	44.8	27	180.0	292	2042	25.4
4	-200.0	1023	5845	72.7	16	12.0	43	3566	44.4	28	210.0	254	1750	21.7
5	-100.0	449	4822	60.0	17	18.0	60	3523	43.8	29	240.0	412	1496	18.6
6	-50.0	406	4373	54.4	18	25.0	78	3463	43.1	30	300.0	396	1084	13.4
7	-20.0	82	3967	49.4	19	34.0	87	3385	42.1	31	380.0	295	688	8.5
8	-10.0	54	3885	48.4	20	44.0	112	3298	41.0	32	460.0	249	393	4.8
9	-5.0	46	3831	47.7	21	58.0	154	3186	39.7	33	580.0	140	144	1.7
10	0.0	131	3785	47.1	22	77.0	179	3032	37.7	34	930.0	4	4	
11	0.5	1	3654	45.5	23	100.0	202	2853	35.5					

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

LOCATION.--Lat 26°28'18", long 80°26'46", in NE¼ sec.4, T.46 S., R.39 E., Palm Beach County, Hydrologic Unit 03090202, at pump station 6, and 7 mi (11 km) southeast of Shawano.

PERIOD OF RECORD.--October 1957 to September 1979.

REMARKS.--Flow regulated by pumpage at S-6, by hurricane gate structure 4 and pump station 2 at Lake Okeechobee and by drainage and irrigation pumps upstream. Records include flow from Levee 6 Canal since Mar. 15, 1966. No low-flow data contained in Hughes (1981), or listed below.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,970 ft<sup>3</sup>/s (84.1 m<sup>3</sup>/s) June 9, 1966; no flow for many days each year.

106

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281300 HILLSBORO CANAL AT S-39, NEAR DEERFIELD BEACH, FL

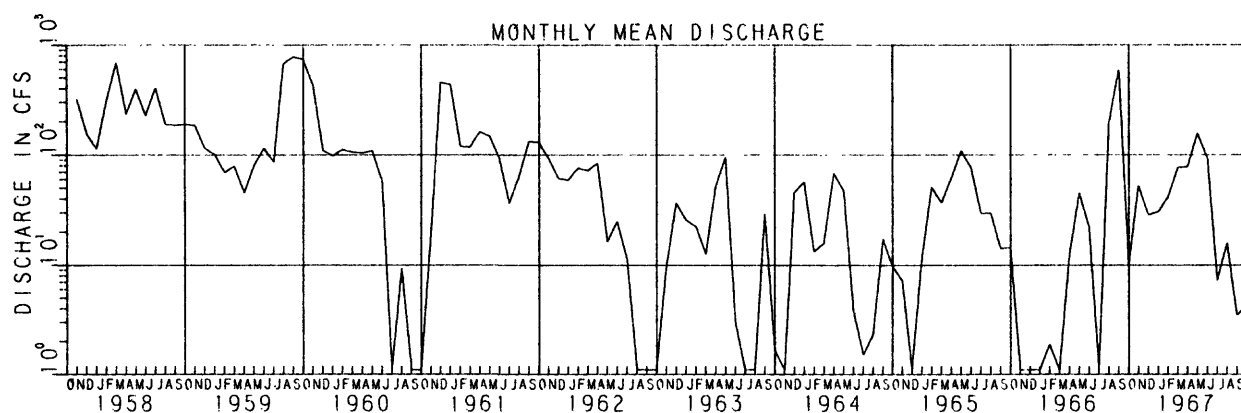
LOCATION.--Lat 26°21'20", long 80°17'58", in SE¼ sec.24, T.47 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, 580 ft (177 m) upstream from control structure 39, 6.2 miles (10 km) upstream from U.S. Highway 441, and 12 miles (19 km) west of Deerfield Beach, Broward County.

PERIOD OF RECORD.--April 1957 to September 1967.

REMARKS.--Flow is regulated by operation of structure 39. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--10 years, 104 ft<sup>3</sup>/s (2.95 m<sup>3</sup>/s), 75,290 acre-ft per year (92.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.-- Maximum daily discharge, 788 ft<sup>3</sup>/s (22.3 m<sup>3</sup>/s) July 15, Aug. 1, 2, 7, 8, 1959; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	1530	3652	100.0	12	17.0	18	2092	57.3	24	140.0	68	789	21.6
1	2.3	1	2122	58.1	13	20.0	22	2074	56.8	25	160.0	209	721	19.7
2	2.9	0	2121	58.1	14	23.0	91	2052	56.2	26	190.0	126	512	14.0
3	3.4	0	2121	58.1	15	28.0	33	1961	53.7	27	230.0	29	386	10.5
4	4.1	0	2121	58.1	16	33.0	59	1928	52.8	28	270.0	22	357	9.7
5	4.8	0	2121	58.1	17	40.0	96	1869	51.2	29	330.0	23	335	9.1
6	5.8	2	2121	58.1	18	47.0	127	1773	48.5	30	390.0	71	312	8.5
7	6.9	0	2119	58.0	19	56.0	97	1646	45.1	31	460.0	64	241	6.5
8	8.2	3	2119	58.0	20	67.0	141	1549	42.4	32	550.0	59	177	4.8
9	9.8	10	2116	57.9	21	80.0	165	1408	38.6	33	660.0	98	118	3.2
10	12.0	4	2106	57.7	22	96.0	198	1243	34.0	34	780.0	20	20	.5
11	14.0	10	2102	57.6	23	110.0	256	1045	28.6					

SOUTH FLORIDA  
EVERGLADES AND SOUTHEASTERN COASTAL AREA  
02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

LOCATION.--Lat 26°19'39", long 80°07'52", in SW quarter sec.35, T.47 S.; R.42 E.; Broward County, Hydrologic Unit 03090202, at lock chamber, 2 mi (3 km) west of Deerfield Beach, and 4.4 mi (7.1 km) east of State Highway 7.

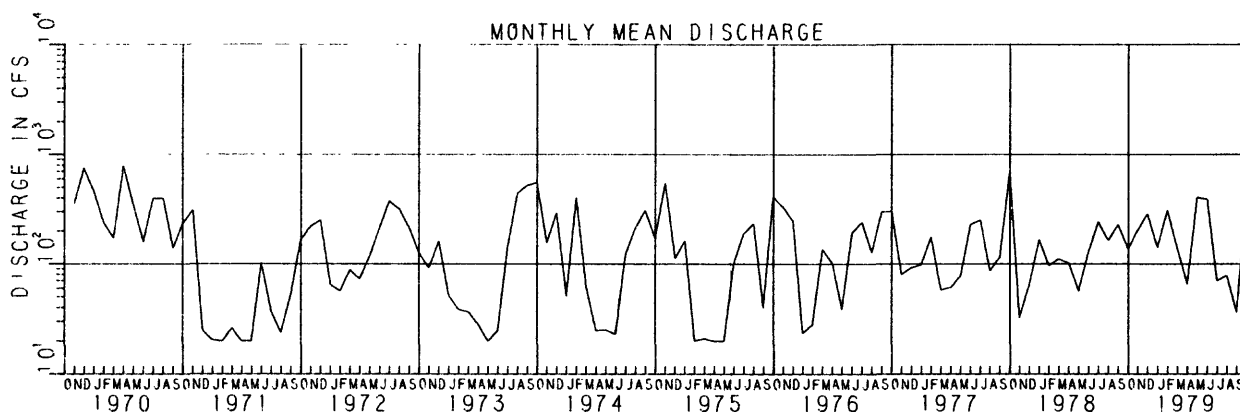
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1979.

REMARKS.--Flow regulated at station for irrigation and drainage and by flood-control levee, 11 mi (18 km) above station. Lock chamber not used for navigation. Pumps above station divert water for irrigation during growing season. Since September 1952, flow materially affected by control structure 39, 11 mi (18 km) upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--39 years (water years 1941-79), 315 ft<sup>3</sup>/s (8.92 m<sup>3</sup>/s), 228,100 acre-ft/yr (281 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,490 (98.8 m<sup>3</sup>/s) Oct. 12, 1947; no flow for several days in 1939, 1940, and 1959.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	94	14579	100.0	12	15.0	189	13909	95.4	24	290.0	714	4652	31.9
1	1.0	6	14485	99.4	13	19.0	1863	13720	94.1	25	370.0	708	3938	27.0
2	1.3	0	14479	99.3	14	24.0	627	11857	81.3	26	470.0	701	3230	22.1
3	1.6	2	14479	99.3	15	31.0	402	11230	77.0	27	600.0	589	2529	17.3
4	2.1	0	14477	99.3	16	40.0	933	10828	74.3	28	770.0	557	1940	13.3
5	2.7	8	14477	99.3	17	51.0	665	9895	67.9	29	980.0	520	1383	9.4
6	3.4	6	14469	99.2	18	65.0	735	9230	63.3	30	1300.0	465	863	5.9
7	4.4	32	14463	99.2	19	84.0	776	8495	58.3	31	1600.0	267	398	2.7
8	5.6	58	14431	99.0	20	110.0	666	7719	52.9	32	2000.0	108	131	.8
9	7.2	177	14373	98.6	21	140.0	779	7053	48.4	33	2600.0	22	23	.1
10	9.1	230	14196	97.4	22	180.0	722	6274	43.0	34	3400.0	1	1	
11	12.0	57	13966	95.8	23	220.0	900	5552	38.1					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02282100 CYPRESS CREEK CANAL AT S-37A, NEAR POMPANO BEACH, FL

LOCATION.--Lat 26°12'20", long 80°07'57", in NW¼ sec.11, T.49 S.; R.42 E.; Broward County, Hydrologic Unit 03090202, at bridge on State Highway 811, 300 ft (91 m) upstream from salinity-control structure 37A, 2.4 mi (3.9 km) upstream from mouth, 2.8 mi (4.5 km) downstream from control structure 37B; 3 mi (5 km) southwest of Pompano Beach, and 3.5 mi (5.6 km) downstream from Pompano Canal.

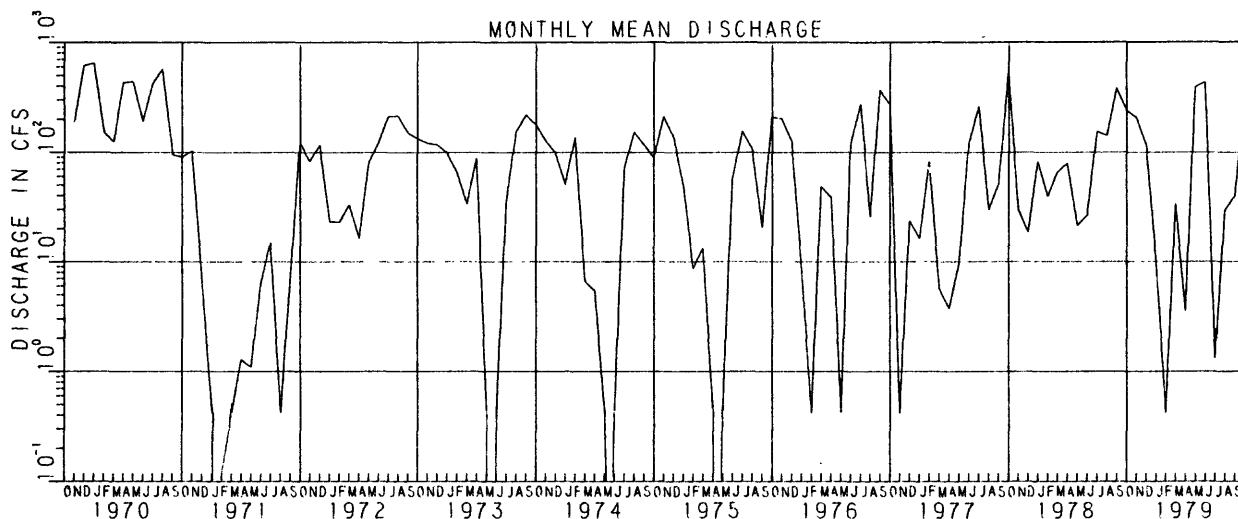
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1962 to September 1979.

REMARKS.--Flow is regulated by the operation of salinity-control structure 37A. Flow is affected by tide and the operation of control structure 37B, 2.8 mi (4.5 km) upstream, and is occasionally reversed. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--17 years (water years 1963-79), 124 ft<sup>3</sup>/s (3.51 m<sup>3</sup>/s) 89,770 acre-ft/yr (111 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,910 ft<sup>3</sup>/s (54.1m<sup>3</sup>/s) Aug. 19, 1976; no flow on some days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	2358	6209	100.00	12	1.0	22	3783	60.93	24	75.0	404	2262	35.43
1	0.02	2	3821	61.54	13	1.5	24	3761	60.57	25	110.0	270	1858	29.92
2	0.03	0	3819	61.51	14	2.1	25	3737	60.19	26	150.0	357	1588	25.55
3	0.04	0	3819	61.51	15	3.0	45	3712	59.78	27	220.0	365	1251	19.95
4	0.06	1	3819	61.51	16	4.3	67	3667	59.05	28	320.0	348	863	13.90
5	0.08	5	3818	61.49	17	6.1	81	3600	57.98	29	450.0	302	525	8.45
6	0.12	0	3813	61.41	18	8.5	132	3519	56.68	30	640.0	167	223	3.57
7	0.17	9	3813	61.41	19	13.0	192	3387	54.55	31	920.0	42	56	0.90
8	0.25	2	3804	61.27	20	18.0	145	3285	52.91	32	1300.0	10	14	0.23
9	0.35	4	3802	61.23	21	26.0	201	3140	50.57	33	1900.0	2	4	0.06
10	0.50	10	3798	61.17	22	37.0	311	2939	47.33	34	2700.0	2	2	0.03
11	0.72	5	3788	61.01	23	53.0	365	2628	42.33					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02282700 MIDDLE RIVER CANAL AT S-36, NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26°10'22", long 80°10'47", in NW<sub>4</sub> sec.20, T.49 S., R.42 E., Broward County, Hydrologic Unit 03090202, 120 ft (37 m) upstream from salinity-control structure 36, 1.5 mi (2.4 m) east of bridge on U.S. Highway 441, and 5 mi (8 km) west of Fort Lauderdale.

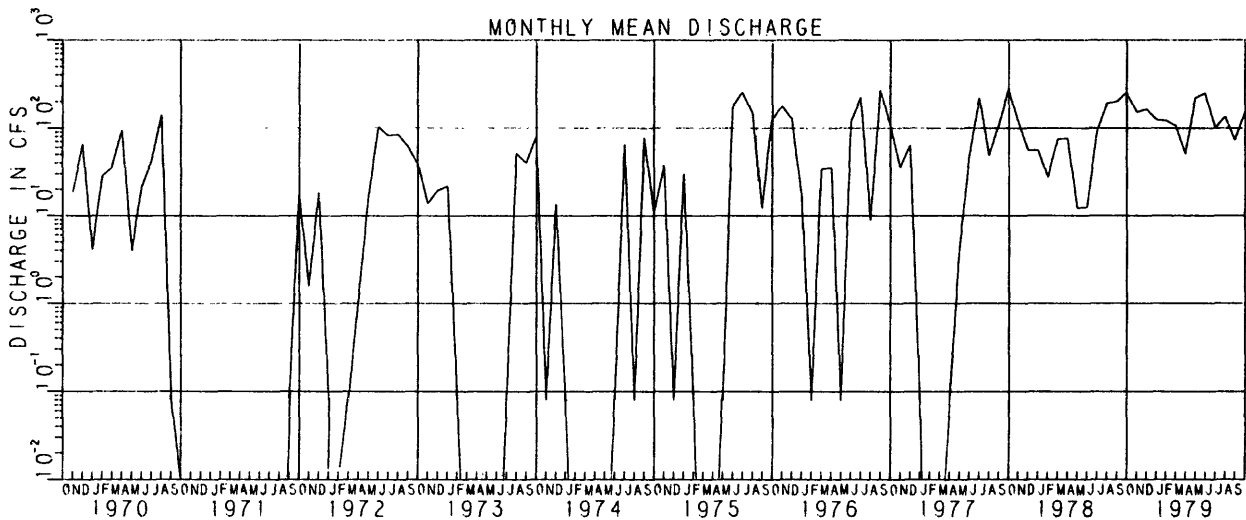
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1961 to September 1979.

REMARKS.--Flow is at times affected by tide and occasionally reversed. Flow is regulated by operation of salinity-control structure 36. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--18 years, 42.8 ft<sup>3</sup>/s (1.21 m<sup>3</sup>/s), 30,990 acre-ft/yr (38.2 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s) Sept. 3, 1977; maximum reverse flow, 61 ft<sup>3</sup>/s (1.73 m<sup>3</sup>/s) Oct. 8, 1963; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-60.0	1	6574	100.0	12	10.0	50	1738	26.4	24	100.0	143	913	13.8
1	-50.0	0	6573	100.0	13	20.0	37	1688	25.7	25	130.0	107	770	11.7
2	-40.0	0	6573	100.0	14	25.0	103	1651	25.1	26	150.0	73	663	10.0
3	-30.0	1	6573	100.0	15	30.0	61	1548	23.5	27	170.0	96	590	8.9
4	-20.0	0	6572	100.0	16	35.0	21	1487	22.6	28	200.0	133	494	7.5
5	-10.0	0	6572	100.0	17	40.0	24	1466	22.3	29	260.0	168	361	5.4
6	-5.0	0	6572	100.0	18	45.0	50	1442	21.9	30	350.0	99	193	2.9
7	0.0	4813	6572	100.0	19	50.0	34	1392	21.2	31	440.0	64	94	1.4
8	0.2	2	1759	26.8	20	55.0	46	1358	20.7	32	600.0	19	30	.4
9	0.5	1	1757	26.7	21	60.0	223	1312	20.0	33	900.0	11	11	.1
10	1.0	3	1756	26.7	22	70.0	76	1089	16.6	34	1500.0			
11	5.0	15	1753	26.7	23	80.0	100	1013	15.4					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02283200 PLANTATION ROAD CANAL AT S-33, NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26°08'05", long 80°11'42", in SW¼ sec.31, T.49 S., R.42 E., Broward County, Hydrologic Unit 03090202, 130 ft (40 m) upstream from salinity-control structure 33, 0.5 mi (0.8 km) east of bridge on U.S. Highway 441, 3 mi (5 km) above mouth, and 4 mi (6 km) west of Fort Lauderdale.

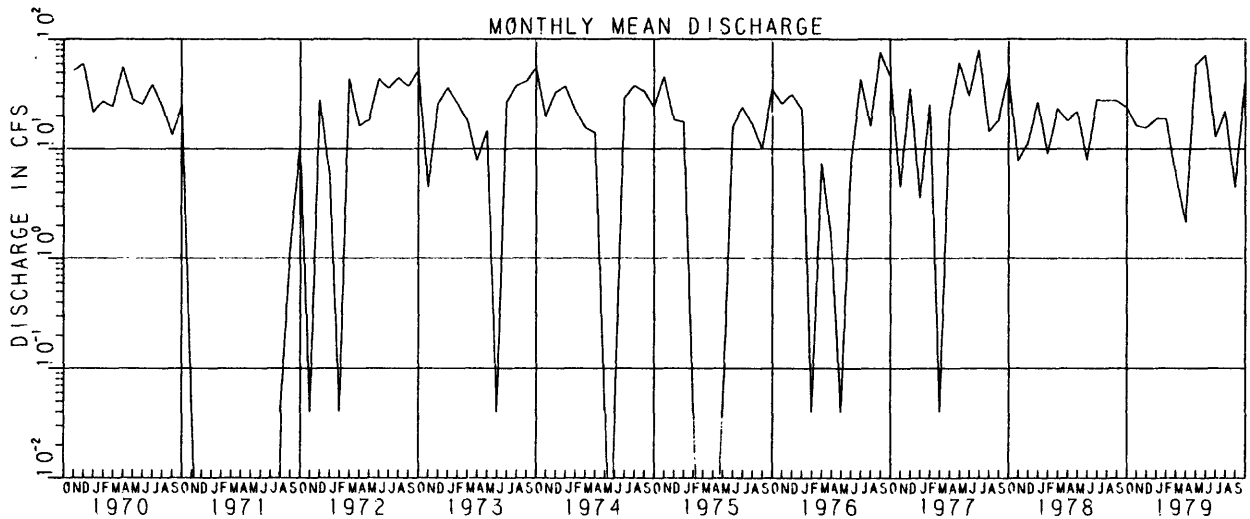
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1962 to September 1979.

REMARKS.--Flow is at times affected by tide and is occasionally reversed. Flow is regulated by operation of salinity-control structure 33. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--17 years, 23.1 ft<sup>3</sup>/s (0.651 m<sup>3</sup>/s) 16,720 acre-ft/yr (20.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 604 ft<sup>3</sup>/s (17.1 m<sup>3</sup>/s) Aug. 19, 1976; maximum reverse flow, 157 ft<sup>3</sup>/s (4.45 m<sup>3</sup>/s) Sept. 8, 1956; no flow on some days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-150.0	0	6209	100.0	12	2.4	19	4088	65.8	24	50.0	420	726	11.6
1	-110.0	0	6209	100.0	13	3.8	21	4069	65.5	25	65.0	198	306	4.9
2	-70.0	0	6209	100.0	14	5.0	36	4048	65.2	26	85.0	32	108	1.7
3	-30.0	0	6209	100.0	15	6.0	55	4012	64.6	27	100.0	38	76	1.2
4	-10.0	0	6209	100.0	16	8.0	101	3957	63.7	28	130.0	24	38	.6
5	-5.0	0	6209	100.0	17	11.0	243	3856	62.1	29	200.0	6	14	.2
6	-2.0	0	6209	100.0	18	14.0	379	3613	58.2	30	300.0	3	8	.1
7	0.0	2088	6209	100.0	19	18.0	584	3234	52.1	31	400.0	3	5	
8	0.3	3	4121	66.4	20	24.0	392	2650	42.7	32	600.0	2	2	
9	0.6	1	4118	66.3	21	28.0	337	2258	36.4					
10	1.0	12	4117	66.3	22	32.0	606	1921	30.9					
11	1.6	17	4105	66.1	23	40.0	589	1315	21.2					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02283498 NORTH NEW RIVER CANAL AT S-2 AND HGS-4, NEAR SOUTH BAY, FL

LOCATION.--Lat 26°42'00", long 80°42'55", in SW¼ sec.35, T.43 S., R.36 E., Palm Beach County, Hydrologic Unit 03090202, at pump station 2 and hurricane gate structure 4,500 ft (153 m) upstream from Hillsboro Canal, and 2.7 miles (4.3 km) north of South Bay.

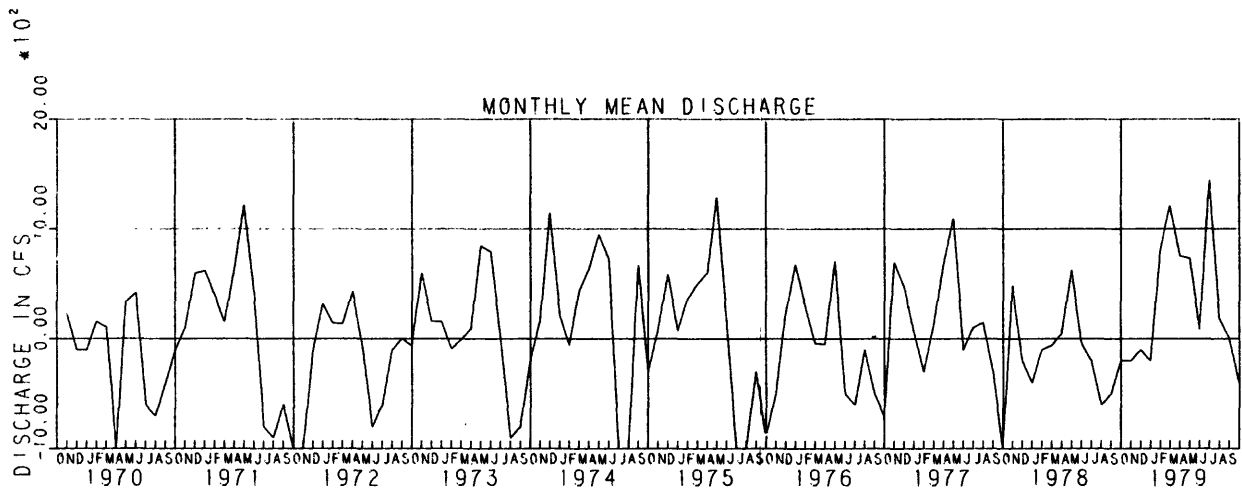
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1967 to September 1979.

REMARKS.--Flow regulated by hurricane gates and pump station at Lake Okeechobee. Discharge is summation of HGS-4 flow and S-2 pumpage. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades or by the operation of pump station No. 2. Negative discharges treated as zero values. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--12 years, 3.67 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s), 2,657 acre-ft/yr (3.28 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,680 ft<sup>3</sup>/s (75.9 m<sup>3</sup>/s) Jan. 28, 1979; maximum daily reverse flow 3,910 ft<sup>3</sup>/s (111 m<sup>3</sup>/s) July 23, 1973; no flow for some days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-3900.0	22	4383	100.0	12	-5.0	0	2996	68.4	24	270.0	87	1625	37.0
1	-3000.0	73	4361	99.5	13	0.0	1082	2996	68.4	25	320.0	114	1538	35.0
2	-2200.0	190	4288	97.8	14	10.0	3	1914	43.7	26	380.0	137	1424	32.4
3	-1500.0	226	4098	93.5	15	20.0	4	1911	43.6	27	460.0	185	1287	29.3
4	-1000.0	119	3872	88.3	16	40.0	5	1907	43.5	28	540.0	204	1102	25.1
5	-800.0	208	3753	85.6	17	60.0	14	1902	43.4	29	650.0	166	898	20.4
6	-600.0	245	3545	80.9	18	80.0	15	1888	43.1	30	770.0	208	732	16.7
7	-400.0	210	3300	75.3	19	100.0	37	1873	42.7	31	920.0	253	524	11.9
8	-200.0	58	3090	70.5	20	130.0	33	1836	41.9	32	1200.0	211	271	6.1
9	-100.0	17	3032	69.2	21	160.0	36	1803	41.1	33	1600.0	58	60	1.3
10	-60.0	17	3015	68.8	22	190.0	74	1767	40.3	34	2600.0	2	?	?
11	-20.0	2	2998	68.4	23	230.0	68	1693	38.6					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02283500 NORTH NEW RIVER CANAL BELOW HGS-4, NEAR SOUTH BAY, FL

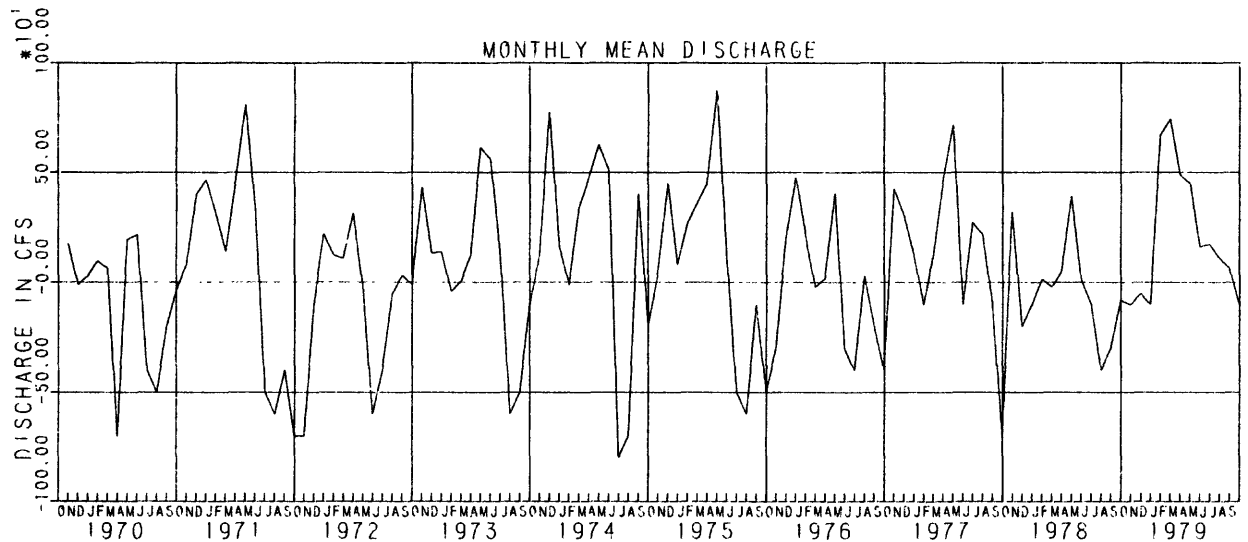
LOCATION.--Lat 26°41'50", long 80°42'50", in SW¼ sec.35, T.43 S., R.36 E., Palm Beach County, Hydrologic Unit 03090202, 800 ft (244 m) downstream from Hillsboro Canal, 1,600 ft (488 m) downstream from hurricane gate structure 4 and pump station 2 at Lake Okeechobee, and 2.5 miles (4.0 km) north of South Bay.

PERIOD OF RECORD.--February 1957 to September 1979.

REMARKS.--Flow regulated by hurricane gate and pump station at Lake Okeechobee. Flow occasionally reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades. Discharge is the difference in flow between North New River Canal at S-2 and HGS-4 and Hillsboro Canal below HGS-4. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--22 years, 73.6 ft<sup>3</sup>/s (2.08 m<sup>3</sup>/s), 53,280 acre-ft/yr (65.7 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,100 ft<sup>3</sup>/s (116 m<sup>3</sup>/s) June 16, 1977. Maximum daily reverse flow, 3,080 ft<sup>3</sup>/s (87.2 m<sup>3</sup>/s) June 21, 1959.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-3000.0	35	6939	100.0	12	10.0	65	4642	66.9	24	340.0	332	2017	29.0
1	-2000.0	308	6904	99.5	13	20.0	163	4577	66.0	25	400.0	431	1685	24.2
2	-1000.0	521	6596	95.1	14	40.0	217	4414	63.6	26	500.0	477	1254	18.0
3	-500.0	673	6075	87.5	15	60.0	142	4197	60.5	27	640.0	296	777	11.1
4	-200.0	417	5402	77.8	16	80.0	113	4055	58.4	28	780.0	271	481	6.9
5	-50.0	131	4985	71.8	17	100.0	208	3942	55.8	29	1000.0	128	210	3.0
6	-20.0	44	4854	70.0	18	120.0	209	3734	53.8	30	1400.0	72	82	1.1
7	-10.0	65	4810	69.3	19	150.0	246	3525	50.8	31	1800.0	9	10	.1
8	0.0	39	4745	68.4	20	180.0	342	3279	47.3	32	2600.0	1	1	
9	1.0	11	4706	67.8	21	220.0	344	2937	42.3					
10	3.0	22	4695	67.7	22	260.0	318	2593	37.4					
11	6.0	31	4673	67.3	23	300.0	258	2275	32.8					

SOUTH FLORIDA  
EVERGLADES AND SOUTHEASTERN COASTAL AREA

02284300 NORTH NEW RIVER CANAL AT S-7, AT TERRYTOWN, FL

LOCATION.--Lat 26°20'07", long 80°32'14", in SW¼ sec.22, T.47 S., R.38 E., Palm Beach County, Hydrologic Unit 03090202, 50 ft (15 m) east of U.S. Highway 27 in Terrytown, and 25 mi (40 km) south of Okeelanta.

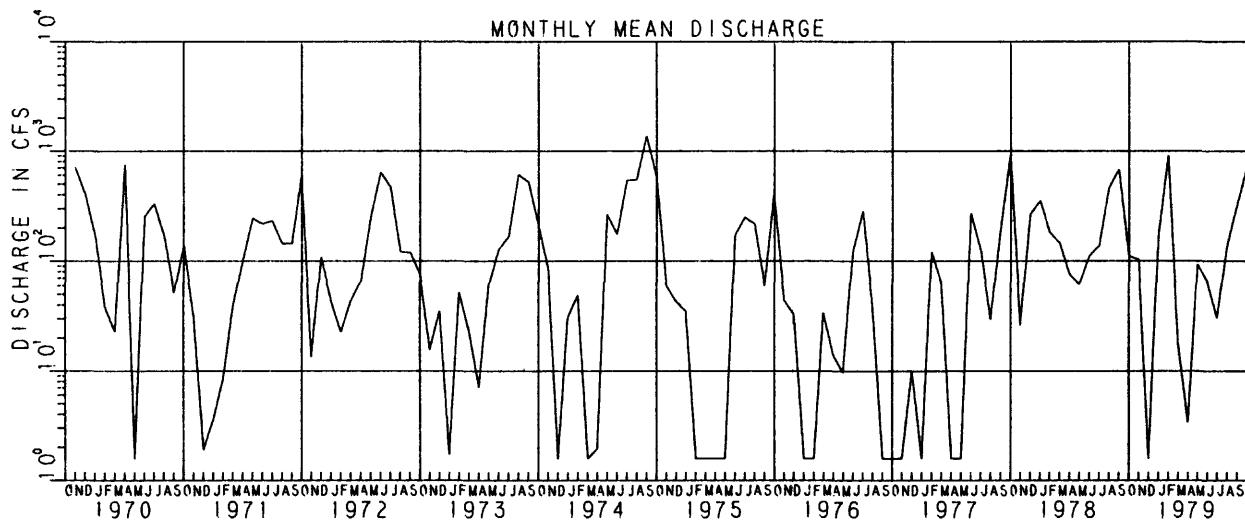
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1960 to September 1979.

REMARKS.--Flow regulated by pumpage and operation of gate at pump station 7, and by operation of hurricane gate structure 4 and pump station 2 at Lake Okeechobee. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--19 years, 195 ft<sup>3</sup>/s 5.22 m<sup>3</sup>/s, 141,200 acre-ft/yr, (174 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,560 ft<sup>3</sup>/s (72.5 m<sup>3</sup>/s) June 27, 1974; maximum daily reverse flow, 755 ft<sup>3</sup>/s (21.4 m<sup>3</sup>/s) July 31, 1966; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-760.0	7	7213	100.0	12	10.0	8	2866	39.7	24	430.0	208	1380	19.1
1	-560.0	2	7206	99.9	13	20.0	14	2858	39.6	25	480.0	198	1172	16.2
2	-380.0	1	7204	99.9	14	30.0	29	2844	39.4	26	530.0	202	974	13.5
3	-240.0	1	7203	99.9	15	50.0	87	2815	39.0	27	580.0	155	772	10.7
4	-120.0	3	7202	99.8	16	90.0	146	2728	37.8	28	680.0	93	617	8.5
5	-60.0	1	7199	99.8	17	130.0	182	2582	35.8	29	780.0	171	524	7.2
6	-20.0	1	7198	99.8	18	180.0	91	2400	33.3	30	1000.0	107	353	4.8
7	0.0	4329	7197	99.8	19	200.0	187	2309	32.0	31	1200.0	169	246	3.4
8	0.2	0	2868	39.8	20	240.0	173	2122	29.4	32	1600.0	76	77	1.0
9	0.5	0	2868	39.8	21	280.0	198	1949	27.0	33	2500.0	1	1	
10	1.0	1	2868	39.8	22	330.0	179	1751	24.3					
11	5.0	1	2867	39.7	23	380.0	192	1572	21.8					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02285000 NORTH NEW RIVER CANAL NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26°05'39", long 80°13'48", in SW¼ sec.14, T.50 S., R.41 E., Broward County, Hydrologic Unit 03090202, at lock and salinity-control structure on State Highway 84, and 6 mi (10 km) southwest of Fort Lauderdale.

DRAINAGE AREA.--Indeterminate.

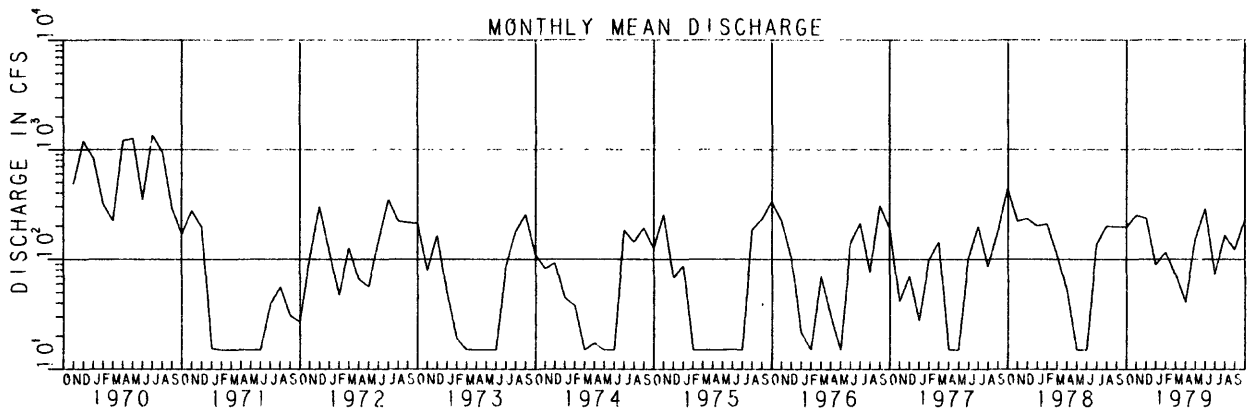
PERIOD OF RECORD.--November 1939 to September 1979.

REMARKS.--Flow regulated at and above station by control structures for irrigation, drainage, and flood and fire control. Several small diversions above station for irrigation. Since February 1952, flow materially affected by control structure and 20-mile bend, 14 mi (23 km) upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--39 years (water years 1941-79), 410 ft<sup>3</sup>/s (11.6 m<sup>3</sup>/s), 296,800 acre-ft/yr (366 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,280 ft<sup>3</sup>/s (92.9 m<sup>3</sup>/s) Nov. 19, 1947; no flow May 5, 6, 13, 15-20, 24-26, 1966.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of Oct. 15, 1929 had a discharge of 5,400 ft<sup>3</sup>/s (153 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	12	14244	100.0	12	4.4	67	14157	99.4	24	190.0	1257	7848	55.0
1	0.1	1	14232	99.9	13	6.0	29	14090	98.9	25	260.0	1237	6591	46.2
2	0.2	2	14231	99.9	14	8.2	97	14061	98.7	26	360.0	1018	5354	37.5
3	0.3	0	14229	99.9	15	11.0	95	13964	98.0	27	490.0	1111	4336	30.4
4	0.4	0	14229	99.9	16	15.0	1796	13869	97.4	28	670.0	1232	3225	22.6
5	0.5	2	14229	99.9	17	21.0	350	12073	84.8	29	920.0	1119	1993	13.9
6	0.7	1	14227	99.9	18	29.0	447	11723	82.3	30	1300.0	534	874	6.1
7	0.9	0	14226	99.9	19	40.0	568	11276	79.2	31	1700.0	276	340	2.3
8	1.2	2	14226	99.9	20	54.0	424	10708	75.2	32	2400.0	64	64	.4
9	1.7	2	14224	99.9	21	74.0	595	10284	72.2	33	3300.0			
10	2.3	23	14222	99.8	22	100.0	795	9689	68.0					
11	3.2	42	14199	99.7	23	140.0	1046	8894	62.4					

SOUTH FLORIDA  
EVERGLADES AND SOUTHEASTERN COASTAL AREA

02285400 SOUTH NEW RIVER CANAL AT S-9, NEAR DAVIE, FL

LOCATION.--Lat 26°03'40", long 80°26'23", in SW¼ sec.27, T.50 S., R.39 E., Broward County, Hydrologic Unit 03090202, at pump station 9, 0.5 mi (0.8 km) west of U.S. Highway 27, and 13 mi (21 km) west of Davie.

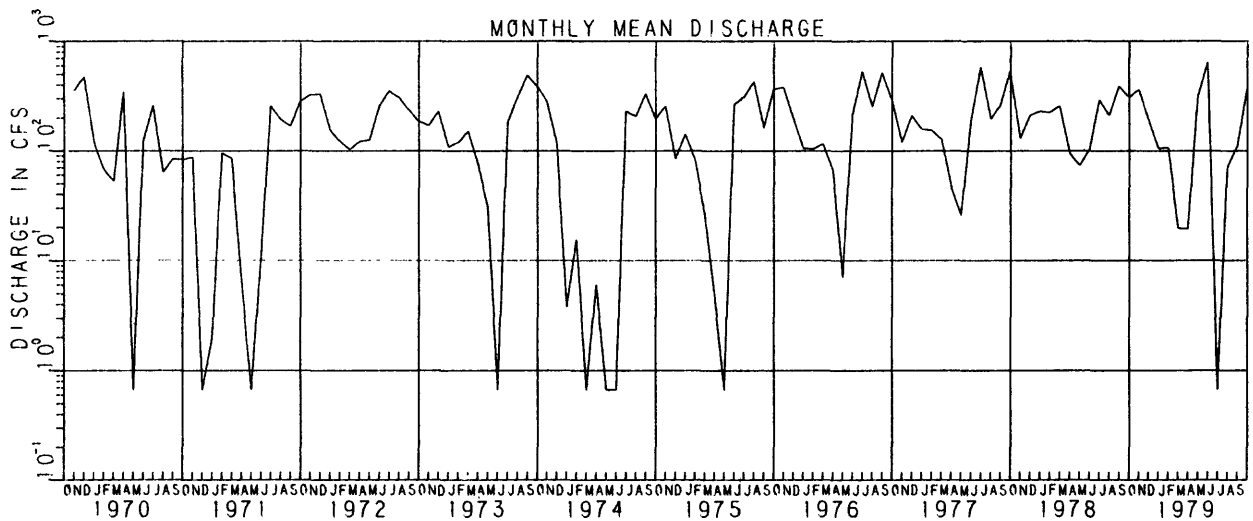
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to September 1979.

REMARKS.--Flow regulated by pumpage at S-9 and by pumpage into canal from agricultural lands to the east during and after periods of heavy rainfall. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--22 years, 157 ft³/s (4.45 m³/s), 113,700 acre-ft/yr (140 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,930 ft³/s (54.7 m³/s) Oct. 31, 1969; maximum daily reverse flow, 241 ft³/s (6.83 m³/s) Nov. 15, 1960; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-250.0	1	8035	100.0	12	-10.0	3	8011	99.7	24	200.0	325	2884	35.8
1	-200.0	0	8034	100.0	13	-5.0	0	8008	99.7	25	240.0	494	2559	31.8
2	-160.0	1	8034	100.0	14	0.0	3982	8008	99.7	26	280.0	716	2065	25.7
3	-110.0	5	8033	100.0	15	5.0	6	4026	50.1	27	320.0	452	1349	16.7
4	-90.0	2	8028	99.9	16	10.0	15	4020	50.0	28	380.0	264	897	11.1
5	-80.0	2	8026	99.9	17	15.0	31	4005	49.8	29	480.0	212	633	7.8
6	-70.0	1	8024	99.9	18	20.0	32	3974	49.5	30	600.0	265	421	5.2
7	-60.0	0	8023	99.9	19	30.0	39	3942	49.1	31	800.0	132	156	1.9
8	-50.0	6	8023	99.9	20	40.0	76	3903	48.6	32	1200.0	16	24	.2
9	-40.0	5	8017	99.8	21	60.0	185	3827	47.6	33	1600.0	6	8	
10	-30.0	0	8012	99.7	22	100.0	365	3642	45.3	34	2000.0	2	2	
11	-20.0	1	8012	99.7	23	150.0	393	3277	40.8					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286100 SOUTH NEW RIVER CANAL AT S-13, NEAR DAVIE, FL

LOCATION.--Lat 26°03'57", long 80°12'32", in SW¼ sec.25, T.50 S., R.41 E., Broward County, Hydrologic Unit 03090202, 150 ft (46 m) upstream from pump station 13, 300 ft (91 m) west of U.S. Highway 441, and 1.5 mi (2.4 km) east of Davie.

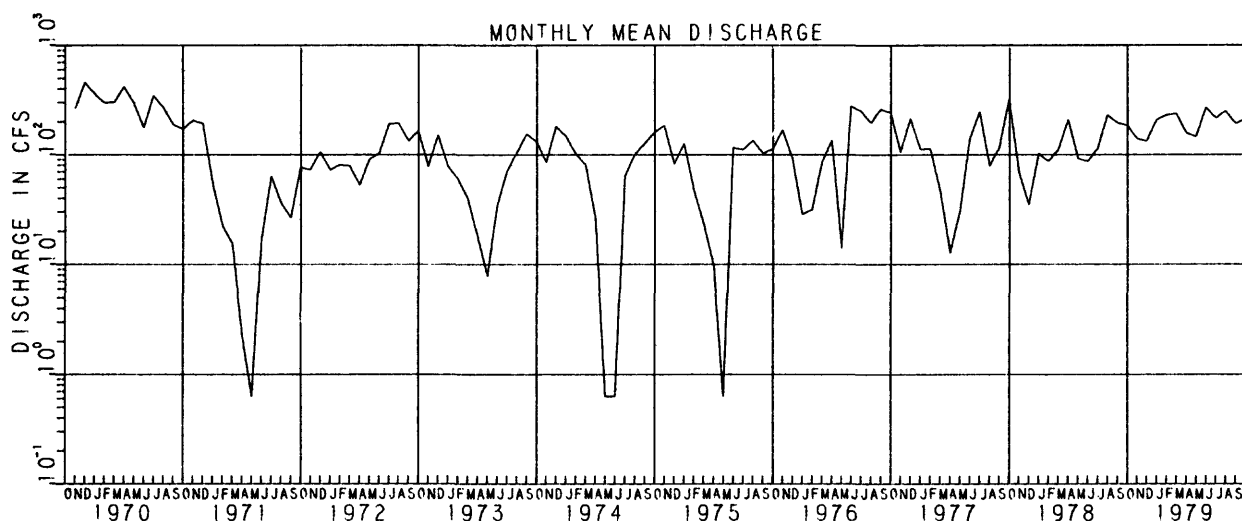
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1957 to September 1979.

REMARKS.--Flow is affected by tide and is occasionally reversed. Negative figures indicate reverse flow. Flow is regulated by pumpage and operation of gate at S-13. Flow is affected by regulation of control-structure 13A 5 mi (8 km) upstream and by upstream withdrawals from the canal during the growing season and pumpage into the canal during high water. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--21 years, 175 ft<sup>3</sup>/s (4.96 m<sup>3</sup>/s), 126,700 acre-ft/yr (156 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft<sup>3</sup>/s (29.7 m<sup>3</sup>/s) Jan. 25, 1963 and Oct. 12, 1964; maximum reverse flow, 657 ft<sup>3</sup>/s (18.6 m<sup>3</sup>/s) Sept. 12, 1962; no flow for some days in most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-660.0	0	8035	100.0	12	8.0	97	7240	90.1	24	200.0	324	3238	40.2
1	-550.0	0	8035	100.0	13	16.0	357	7143	88.9	25	220.0	295	2914	36.2
2	-450.0	0	8035	100.0	14	32.0	271	6786	84.5	26	240.0	324	2619	32.5
3	-350.0	0	8035	100.0	15	42.0	240	6515	81.1	27	260.0	339	2295	28.5
4	-250.0	0	8035	100.0	16	52.0	669	6275	78.1	28	280.0	326	1956	24.3
5	-150.0	3	8035	100.0	17	80.0	232	5606	69.8	29	300.0	827	1630	20.2
6	-100.0	6	8032	100.0	18	90.0	647	5374	66.9	30	360.0	337	803	9.9
7	-50.0	24	8026	99.9	19	120.0	370	4727	58.8	31	400.0	389	466	5.7
8	0.0	711	8002	99.6	20	140.0	439	4357	54.2	32	540.0	61	77	.9
9	0.5	9	7291	90.7	21	160.0	326	3918	48.8	33	700.0	14	16	.1
10	2.0	9	7282	90.6	22	180.0	174	3592	44.7	34	900.0	2	2	
11	4.0	33	7273	90.5	23	190.0	180	3418	42.5					

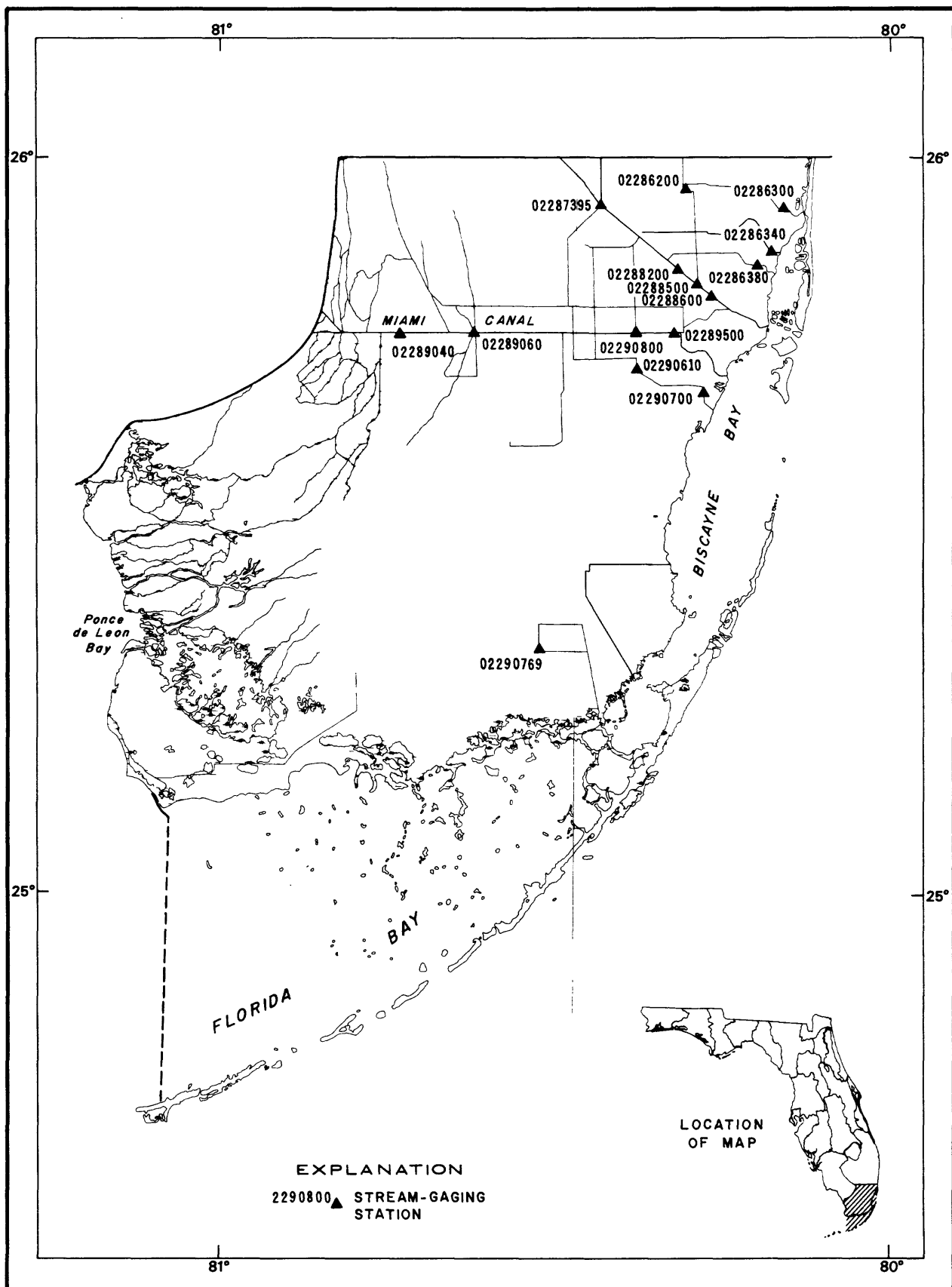


Figure 9.--Stations in the Everglades and southeastern coastal area south of latitude 26 degrees.

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286200 SNAKE CREEK CANAL AT N.W. 67TH AVENUE, NEAR HIALEAH, FL

LOCATION.--Lat 25°57'50", long 80°18'40", in SW 1/4 sec.36, T.51 S., R.40, E., Broward County, Hydrologic Unit 03090202, at bridge at N. W. 67th Avenue, 6.0 mi (9.6 km) north of Hialeah, Dade County, 10.9 mi (17.5 km) upstream from salinity-control structure 29, and 11 mi (17.7 km) upstream from mouth.

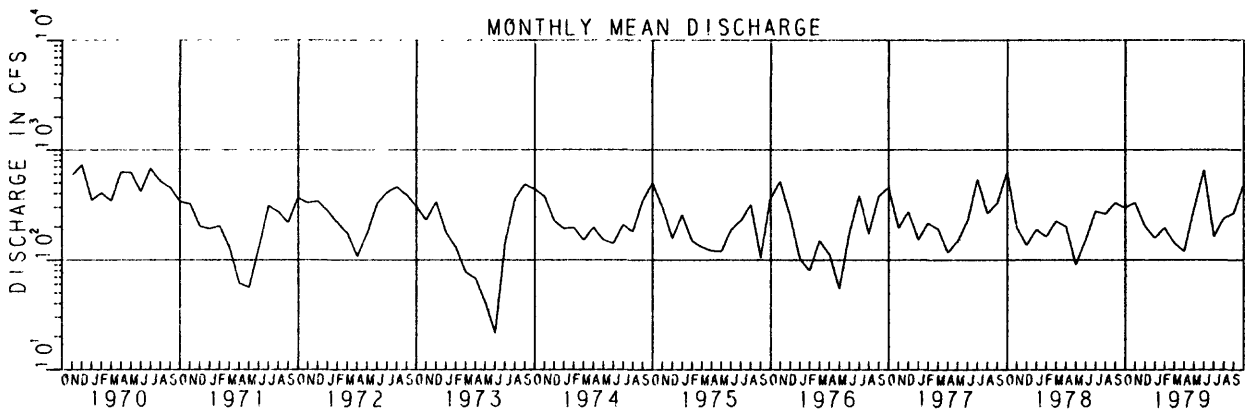
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1962 to September 1979.

REMARKS.--Flow affected by regulation at salinity-control structure 29, at times by tide, and is occasionally reversed. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--17 years (water years 1963-1979) 295 ft<sup>3</sup>/s (8.35 m<sup>3</sup>/s), 213,600 acre-ft/yr (263 m<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,550 ft<sup>3</sup>/s (43.9 m<sup>3</sup>/s) Mar. 10, 1969; maximum reverse flow, 537 ft<sup>3</sup>/s (15.2 m<sup>3</sup>/s) Sept. 8, 1965.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-540.0	0	6209	100.0	12	110.0	477	5056	81.4	24	960.0	23	57	.9
1	-50.0	0	6209	100.0	13	140.0	544	4579	73.7	25	1000.0	33	34	.5
2	-10.0	2	6209	100.0	14	180.0	327	4035	65.0	26	1360.0	1	1	
3	-5.0	2	6207	100.0	15	200.0	300	3708	59.7	27	1960.0			
4	0.0	5	6205	99.9	16	220.0	1368	3408	54.9					
5	5.0	9	6200	99.9	17	340.0	695	2040	32.9					
6	10.0	37	6191	99.7	18	430.0	453	1345	21.7					
7	20.0	48	6154	99.1	19	520.0	292	892	14.4					
8	30.0	73	6106	98.3	20	600.0	182	600	9.7					
9	40.0	252	6033	97.2	21	680.0	118	418	6.7					
10	60.0	266	5781	93.1	22	760.0	132	300	4.8					
11	80.0	459	5515	88.8	23	860.0	111	168	2.7					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286300 SNAKE CREEK CANAL AT S-29, AT NORTH MIAMI BEACH, FL

LOCATION.--Lat 25°55'41", long 80°09'22", in SE¼ sec.9, T.52 S., R.42 E., Dade County, Hydrologic Unit 03090202, at bridge on West Dixie Highway in North Miami Beach, 25 ft (8 m) from right bank, 0.3 mi (0.5 km) upstream from salinity-control structure 29, and 0.4 mi (0.6 km) upstream from mouth.

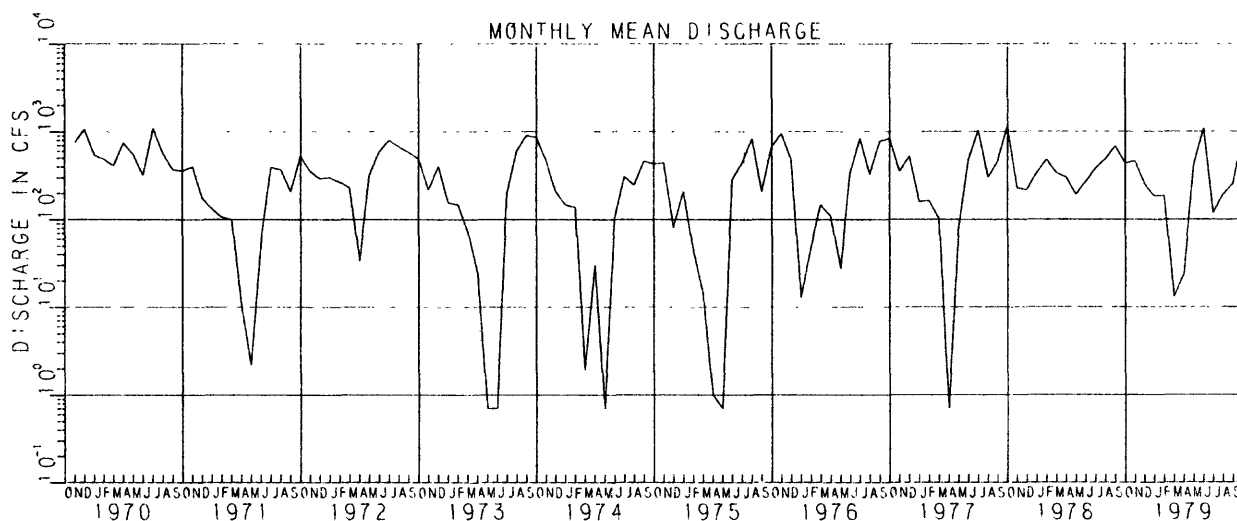
DRAINAGE AREA.--Indeterminate.

RECORDS AVAILABLE.--January 1959 to September 1979.

REMARKS.--Flow is affected by tide and is occasionally reversed. Flow is regulated by the operation of salinity-control structure 29 and by some upstream pumpage for irrigation. No low-flow contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--20 years, 382 ft<sup>3</sup>/s (10.8 m<sup>3</sup>/s), 276,000 acre-ft/yr (341 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,100 ft<sup>3</sup>/s (116 m<sup>3</sup>/s) Sept. 19, 1964; no flow for some days for each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	2069	7578	100.0	12	5.2	6	5465	72.1	24	180.0	547	4140	54.6
1	0.1	1	5509	72.7	13	7.0	8	5459	72.0	25	250.0	496	3593	47.4
2	0.3	0	5508	72.7	14	9.4	15	5451	71.9	26	330.0	479	3097	40.8
3	0.4	0	5508	72.7	15	13.0	17	5436	71.7	27	440.0	596	2618	34.5
4	0.5	1	5508	72.7	16	17.0	28	5419	71.5	28	600.0	677	2022	26.6
5	0.7	1	5507	72.7	17	23.0	54	5391	71.1	29	800.0	746	1345	17.7
6	0.9	12	5506	72.7	18	31.0	67	5337	70.4	30	1100.0	434	599	7.9
7	1.2	3	5494	72.5	19	41.0	134	5270	69.5	31	1500.0	122	165	2.1
8	1.6	7	5491	72.5	20	56.0	193	5131	67.7	32	2000.0	33	43	.5
9	2.1	1	5484	72.4	21	75.0	266	4938	65.2	33	2600.0	8	10	.1
10	2.9	7	5483	72.4	22	100.0	284	4672	61.7	34	3500.0	2	2	
11	3.9	11	5476	72.3	23	140.0	248	4388	57.9					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286340 BISCAYNE CANAL AT S-28, NEAR MIAMI, FL

LOCATION.--Lat 25°52'41", long 80°11'35", in SE¼ sec.31, T.52 S., R.42 E., Dade County, Hydrologic Unit 03090202, at footbridge, 100 ft (30.5 m) upstream from salinity-control structure 28, 0.7 mi (1.1 km) upstream from U.S. Highway 1, 1.2 mi (1.9 km) above mouth, and 1.7 mi (2.7 km) north of north boundary of Miami.

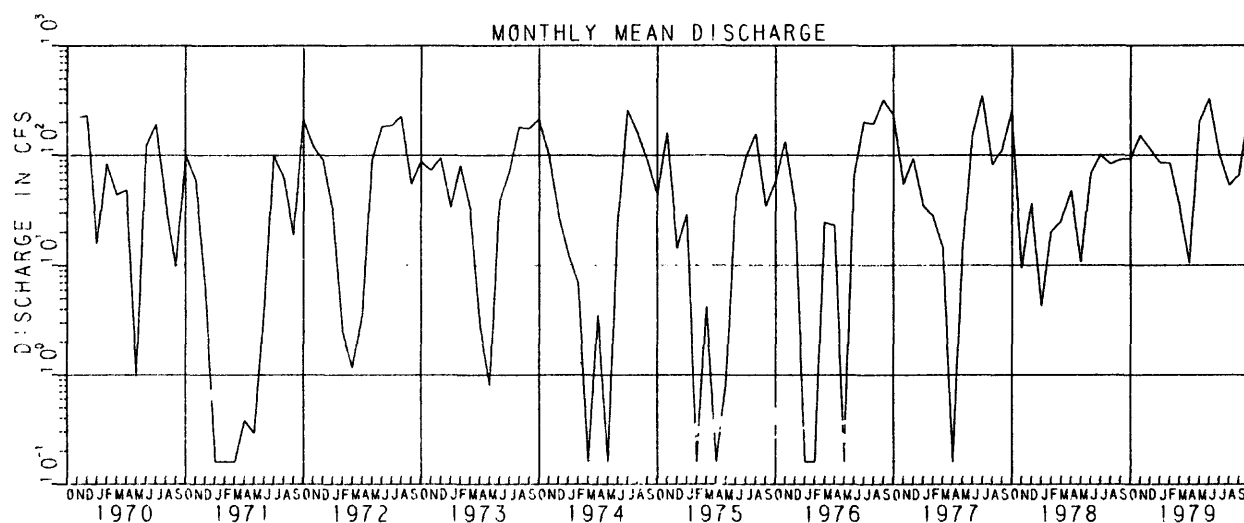
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1962 to September 1979.

REMARKS.--Flow is at times affected by tide and is occasionally reversed. Flow is regulated by the operation of salinity-control structure 28, 300 ft (91 m) downstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--17 years, 105 ft<sup>3</sup>/s (2.97 m<sup>3</sup>/s), 76,020 acre-ft/yr (93.7 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,640 ft<sup>3</sup>/s (46.4 m<sup>3</sup>/s) May 29, 1966; no flow on some days each year; maximum reverse flow, 835 ft<sup>3</sup>/s (23.6 m<sup>3</sup>/s) Sept. 8, 1965, from hurricane tide.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-900.0	0	6209	100.0	12	0.5	2	3632	58.5	24	140.0	360	1775	28.5
1	-500.0	0	6209	100.0	13	1.0	27	3630	58.5	25	180.0	154	1415	22.7
2	-300.0	1	6209	100.0	14	3.0	53	3603	58.0	26	200.0	166	1261	20.3
3	-200.0	1	6208	100.0	15	6.0	89	3550	57.2	27	220.0	201	1095	17.6
4	-100.0	0	6207	100.0	16	12.0	168	3461	55.7	28	250.0	173	894	14.3
5	-50.0	0	6207	100.0	17	20.0	118	3293	53.0	29	280.0	159	721	11.6
6	-10.0	1	6207	100.0	18	30.0	176	3175	51.1	30	320.0	273	562	9.0
7	-5.0	0	6206	100.0	19	40.0	114	2999	48.3	31	440.0	174	289	4.6
8	0.0	2569	6206	100.0	20	50.0	187	2885	46.5	32	580.0	83	115	1.8
9	0.1	1	3637	58.6	21	65.0	266	2698	43.5	33	800.0	30	32	.5
10	0.3	0	3636	58.6	22	85.0	181	2432	39.2	34	1500.0	2	2	
11	0.4	4	3636	58.6	23	100.0	476	2251	36.3					

SOUTH FLORIDA  
EVERGLADES AND SOUTHEASTERN COASTAL AREA  
02286380 LITTLE RIVER CANAL AT S-27, AT MIAMI, FL

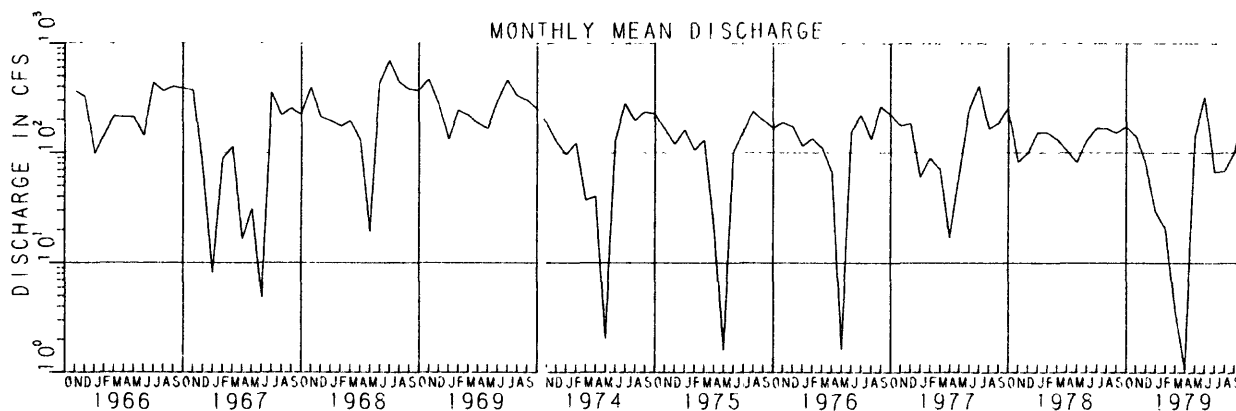
LOCATION.--Lat 25°51'11", long 80°11'36", in NE¼ sec.12, T.53 S., R.41 E., Dade County, Hydrologic Unit 03090202, at concrete bridge on N.E. 2nd Avenue at Miami, 0.4 mi (0.6 km) upstream from salinity-control structure 27, and 1.6 mi (2.6 km) upstream from mouth.

PERIOD OF RECORD.--November 1959 to September 1969, July 1973 to September 1979.

REMARKS.--Flow is affected by tide and is occasionally reversed. Flow is regulated by the operation of salinity-control structure 27. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--16 years (water years 1960-69, 1974-79), 157 ft<sup>3</sup>/s (4.45 m<sup>3</sup>/s), 113,700 acre-ft/yr (140 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s) Oct. 29, 1964; no flow on some days each year; maximum reverse flow, 1,500 ft<sup>3</sup>/s (42.5 m<sup>3</sup>/s) Sept. 8, 1965, from hurricane tide.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-1500.0	0	5478	100.0	12	8.0	55	4356	79.5	24	170.0	161	2206	40.2
1	-700.0	0	5478	100.0	13	12.0	75	4301	78.5	25	180.0	149	2045	37.3
2	-300.0	2	5478	100.0	14	18.0	135	4226	77.1	26	190.0	167	1896	34.6
3	-100.0	1	5476	100.0	15	30.0	104	4091	74.7	27	200.0	281	1729	31.5
4	-50.0	4	5475	99.9	16	40.0	122	3987	72.8	28	220.0	229	1448	26.4
5	-25.0	5	5471	99.9	17	50.0	246	3865	70.6	29	240.0	546	1219	22.2
6	0.0	1060	5466	99.8	18	70.0	259	3619	66.1	30	320.0	373	673	12.2
7	0.2	3	4406	80.4	19	90.0	246	3360	61.3	31	420.0	152	300	5.4
8	0.8	0	4403	80.4	20	110.0	287	3114	56.8	32	560.0	108	148	2.7
9	1.0	10	4403	80.4	21	130.0	303	2827	51.6	33	740.0	38	40	.7
10	2.0	6	4393	80.2	22	150.0	157	2524	46.1	34	980.0	2	2	
11	4.0	31	4387	80.1	23	160.0	161	2367	43.2					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286400 MIAMI CANAL AT HGS-3, AND S-3, AT LAKE HARBOR, FL

LOCATION.--Lat 26°41'55", long 80°48'25", in SE¼ sec.35, T.43 S., R.35 E., Palm Beach County, Hydrologic Unit 03090202, at hurricane gate structure and pump station 3 at Lake Okeechobee, 0.4 mi (0.6 km) upstream from U.S. Highway 27 in Lake Harbor.

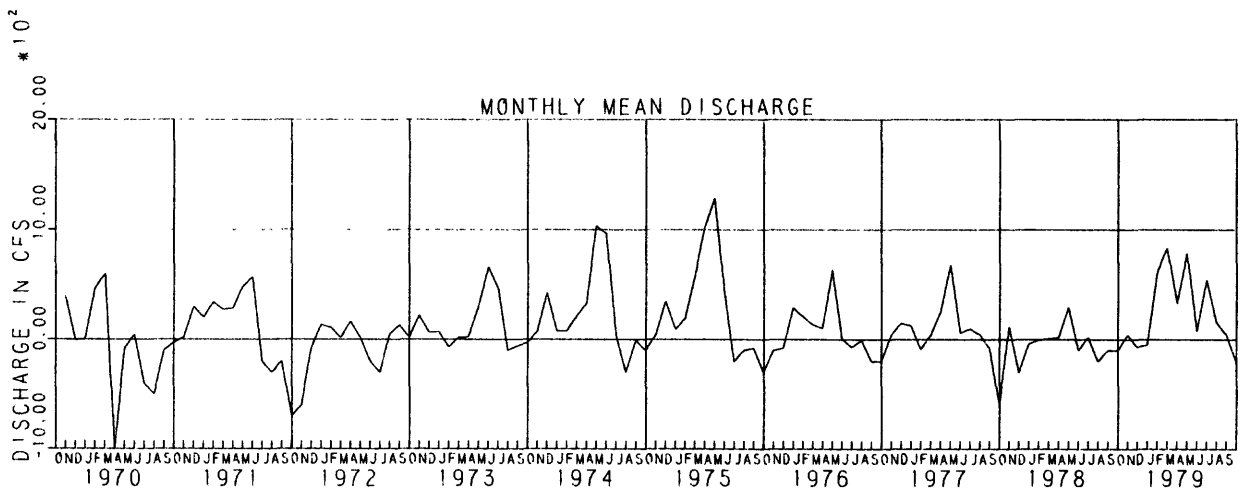
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to September 1979.

REMARKS.--Flow regulated by hurricane gates and pump station at Lake Okeechobee. Discharge is summation of HGS-3 flow and S-3 pumpage. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades, or by the operation of pump station 3 (negative figure indicates reverse flow). No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--22 years (water years 1958-79), 23.4 ft<sup>3</sup>/s (0.66 m<sup>3</sup>/s) 9;190 acre-ft/yr (11.3 hm<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 2,280 ft<sup>3</sup>/s (64.6 m<sup>3</sup>/s) Mar. 24, 1966; maximum daily reverse flow, 2,790 ft<sup>3</sup>/s (79.0 m<sup>3</sup>/s) Mar. 26, 1970; no flow on some days each year.



DUPATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-2800.0	9	8035	100.0	12	10.0	22	3457	43.0	24	275.0	167	1718	21.3
1	-2400.0	25	8026	99.9	13	20.0	40	3435	42.8	25	300.0	272	1551	19.3
2	-2000.0	239	8001	99.6	14	35.0	67	3395	42.3	26	350.0	225	1279	15.9
3	-1000.0	440	7762	96.6	15	55.0	141	3328	41.4	27	400.0	196	1054	13.1
4	-600.0	602	7322	91.1	16	80.0	117	3187	39.7	28	450.0	129	858	10.6
5	-300.0	512	6720	83.6	17	100.0	202	3070	38.2	29	500.0	224	729	9.0
6	-100.0	103	6208	77.3	18	125.0	194	2868	35.7	30	650.0	99	505	6.2
7	-50.0	19	6105	76.0	19	150.0	207	2674	33.3	31	800.0	157	406	5.0
8	-10.0	25	6026	75.0	20	175.0	192	2467	30.7	32	1000.0	195	249	3.0
9	0.0	2535	6001	74.7	21	200.0	196	2275	28.3	33	1500.0	52	54	.6
10	1.0	4	3466	43.1	22	225.0	177	2079	25.9	34	2100.0	2	2	
11	5.0	5	3462	43.1	23	250.0	184	1902	23.7					

## SOUTH FLORIDA

## EVERGLADES SOUTHEASTERN COASTAL AREA

02286700 MIAMI CANAL AT S-8, NEAR LAKE HARBOR, FL

LOCATION.--Lat 26°19'53", long 80°46'29", in NE¼ sec.7, T.48 S., R.36 E., Broward County, Hydrologic Unit 03090202, 26 mi (42 km) south of Lake Harbor, and 26.4 mi (42.5 km) downstream from hurricane gate structure 3 and pump station 3 at Lake Okeechobee.

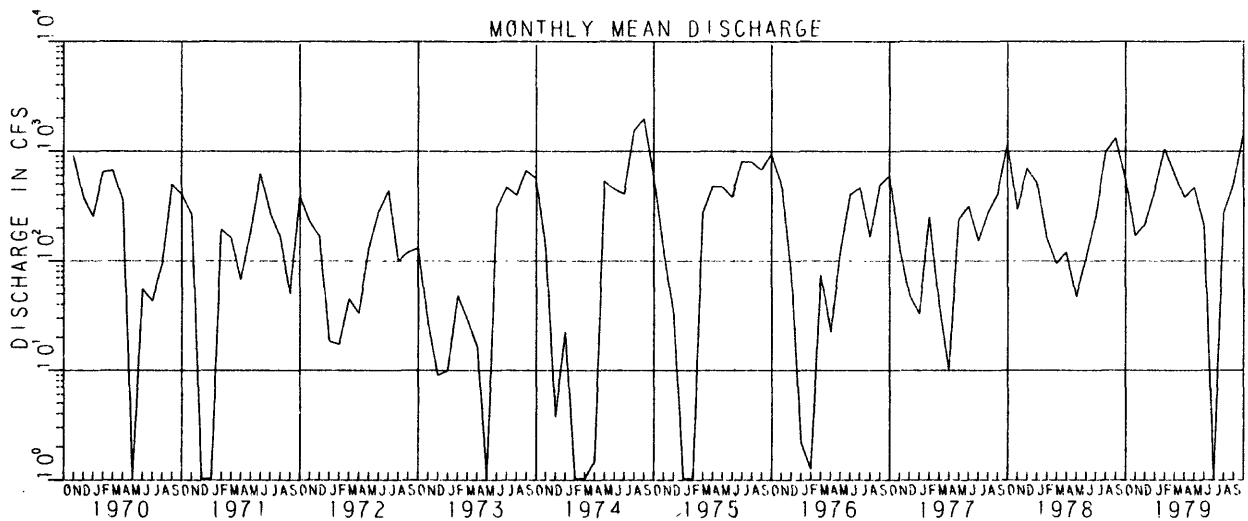
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1962 to September 1979.

REMARKS.--Flow regulated by pumpage and operation of gate at pump station 8, by operation of hurricane gates and pump station 3 at Lake Okeechobee, and operation of drainage and irrigation pumps upstream. No low-flow contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--17 years (water years 1964-79), 280 ft<sup>3</sup>/s (7.93 m<sup>3</sup>/s), 202,700 acre-ft/yr (250 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,240 ft<sup>3</sup>/s (120 m<sup>3</sup>/s) Oct. 22, 1969. maximum daily reverse flow, 79 ft<sup>3</sup>/s (2.24 m<sup>3</sup>/s) July 29, 1966; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-80.0	3	6209	100.0	12	7.0	11	3537	57.0	24	250.0	247	2296	36.4
1	-60.0	1	6206	100.0	13	10.0	30	3526	56.8	25	310.0	316	2049	33.0
2	-50.0	2	6205	99.9	14	15.0	55	3496	56.3	26	400.0	413	1733	27.4
3	-40.0	0	6203	99.9	15	25.0	71	3441	55.4	27	500.0	390	1320	21.2
4	-30.0	3	6203	99.9	16	35.0	80	3370	54.3	28	640.0	332	930	14.4
5	-20.0	2	6200	99.9	17	45.0	88	3290	53.0	29	800.0	268	598	9.6
6	-10.0	0	6198	99.8	18	60.0	80	3202	51.6	30	1100.0	128	330	5.3
7	-5.0	0	6198	99.8	19	75.0	122	3122	50.3	31	1500.0	158	202	3.2
8	0.0	2645	6198	99.8	20	90.0	165	3000	48.3	32	2000.0	42	44	.7
9	1.0	5	3553	57.2	21	115.0	143	2835	45.7	33	2800.0	2	2	
10	3.0	7	3548	57.1	22	150.0	191	2692	43.4					
11	5.0	4	3541	57.0	23	200.0	205	2501	40.3					

SOUTH FLORIDA  
EVERGLADES AND SOUTHEASTERN COASTAL AREA  
02287395 MIAMI CANAL EAST OF LEVEE 30, NEAR MIAMI, FL

LOCATION.--Lat 25°56'28", long 80°26'23", in NE¼ sec.9, T.52 S., R.39 E., Dade County, Hydrologic Unit 03090202, at bridge on State Highway 27, 200 ft (61.0 m) downstream from control structure 32, 14.1 mi (22.7 km) upstream from salinity-control structure, 19.5 mi (31.4 km) northwest of Miami, and 19.8 mi (31.9 km) upstream from mouth.

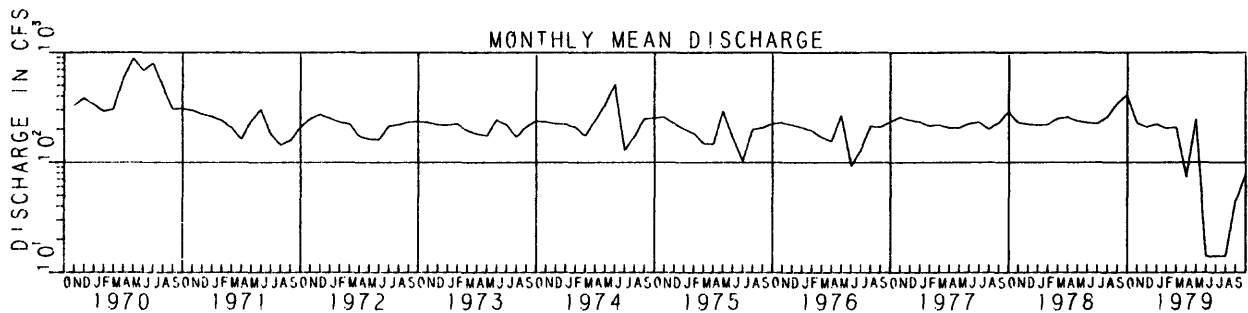
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1967 September 1979.

REMARKS.--Flow affected by regulation at downstream salinity-control structure and by upstream storage releases at control structures 31, 32, and 32A. Discharge computed from continuous velocity record obtained from recording deflection meter. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--19 years (water years 1961-79), 253 ft<sup>3</sup>/s (7.16 m<sup>3</sup>/s), 183,200 acre-ft/yr (226 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,090 ft<sup>3</sup>/s (30.9 m<sup>3</sup>/s) Mar. 20, 1970; minimum daily discharge, 41 ft<sup>3</sup>/s (1.16 m<sup>3</sup>/s) July 23, 24, 1963.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	4018	100.0	12	160.0	77	3588	89.3	24	450.0	6	122	3.0
1	61.0	6	4018	100.0	13	170.0	210	3511	87.4	25	490.0	1	116	2.8
2	67.0	16	4012	99.9	14	190.0	382	3301	82.2	26	530.0	1	115	2.8
3	73.0	8	3996	99.5	15	210.0	344	2919	72.6	27	580.0	5	114	2.8
4	79.0	11	3988	99.3	16	220.0	689	2575	64.1	28	640.0	12	109	2.7
5	86.0	15	3977	99.0	17	240.0	482	1886	46.9	29	690.0	10	97	2.4
6	94.0	15	3962	98.6	18	270.0	264	1404	34.9	30	760.0	10	87	2.1
7	100.0	18	3947	98.2	19	290.0	568	1140	28.4	31	820.0	35	77	1.9
8	110.0	26	3929	97.8	20	320.0	293	572	14.2	32	900.0	12	42	1.0
9	120.0	84	3903	97.1	21	350.0	79	279	6.9	33	980.0	30	30	.7
10	130.0	148	3819	95.0	22	380.0	40	200	5.0	34	1100.0			
11	150.0	83	3671	91.4	23	410.0	38	160	4.0					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02288200 MIAMI CANAL AT PALMETTO BYPASS, NEAR HIALEAH, FL

LOCATION.--Lat 25°51'11", long 80°19'22", on line between NE¼ sec.11, T.53 S., R.40 E., Dade County, Hydrologic Unit 03090202, at bridge on Palmetto bypass, 3 mi (5 km) northwest of Hialeah, 5 mi (8 km) upstream from salinity-control structure, 9 mi (14 km) downstream from control structure 32 and levee 30, and 10.6 mi (17.1 km) upstream from mouth.

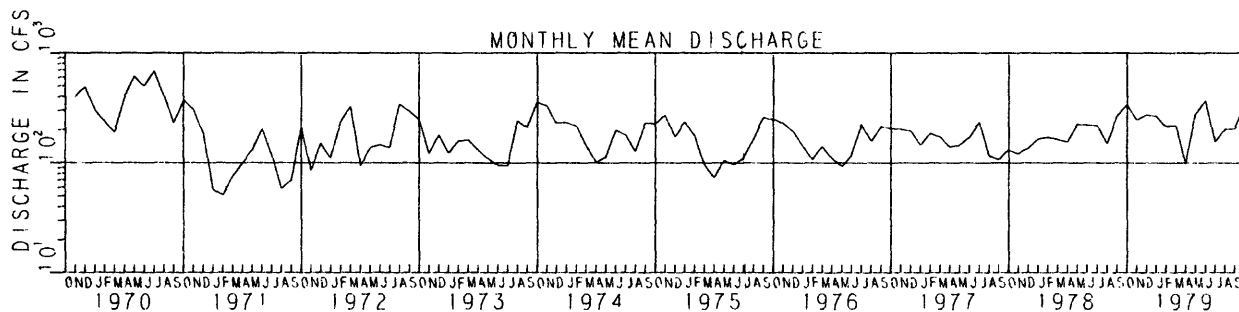
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1959 to September 1979.

REMARKS.--Flow affected by regulation at salinity-control structure and by storage releases at control structures 31, 32, and 32A about 8 mi (13 km) upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--19 years (water years 1961-79), 265 ft<sup>3</sup>/s (7.50 m<sup>3</sup>/s); 191,900 acre-ft/yr (237 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,510 ft<sup>3</sup>/s (42.8 m<sup>3</sup>/s) Oct. 8, 1960; maximum reverse flow, 515 ft<sup>3</sup>/s (14.6 m<sup>3</sup>/s) Sept. 8, 1965.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	1	6939	100.0	12	46.0	215	6912	99.6	24	310.0	550	1903	27.4
1	8.1	2	6938	100.0	13	54.0	38	6697	96.5	25	360.0	405	1353	19.4
2	9.6	0	6936	100.0	14	63.0	115	6659	96.0	26	420.0	323	948	13.6
3	11.0	0	6936	100.0	15	74.0	99	6544	94.3	27	490.0	224	625	9.0
4	13.0	1	6936	100.0	16	87.0	154	6445	92.9	28	570.0	155	401	5.7
5	15.0	2	6935	99.9	17	100.0	316	6291	90.7	29	670.0	69	246	3.5
6	18.0	5	6933	99.9	18	120.0	449	5975	86.1	30	780.0	79	177	2.5
7	21.0	4	6928	99.8	19	140.0	569	5526	79.6	31	920.0	47	98	1.4
8	25.0	1	6924	99.8	20	160.0	765	4957	71.4	32	1100.0	27	51	.7
9	29.0	3	6923	99.8	21	190.0	753	4192	60.4	33	1300.0	23	24	.3
10	34.0	7	6920	99.7	22	220.0	788	3439	49.6	34	1500.0	1	1	
11	40.0	1	6913	99.6	23	260.0	748	2651	38.2					

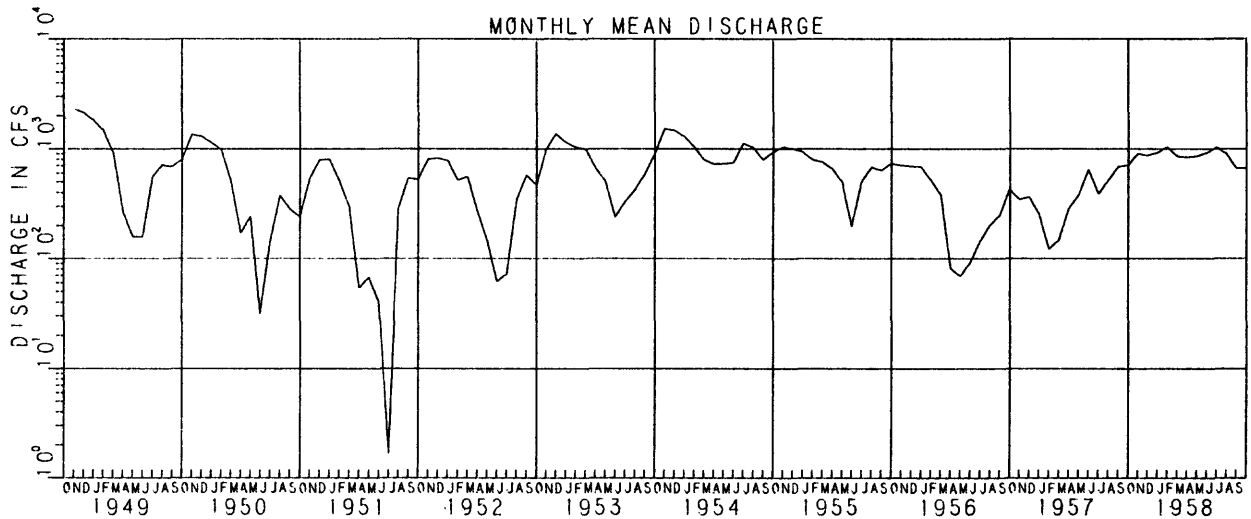
SOUTH FLORIDA  
EVERGLADES AND SOUTHEASTERN COASTAL AREA  
02288500 MIAMI CANAL AT WATER PLANT, HIALEAH, FL

LOCATION.--Lat 25°49'38", long 80°17'15", in SW¼ sec.18, T.53 S., R.41 E., Dade County, Hydrologic Unit 03090202, at Miami water plant in Hialeah, on U.S. Highway 27, half a mile upstream from 54th Street Bridge.

PERIOD OF RECORD.--January 1940 to February 1959.

REMARKS.--Flow affected by tide. Some seepage losses above station into city of Miami well field for recharge of ground-water withdrawals. Since July 1952, flow materially affected by levee and control structures 12 miles upstream. No low-flow contained in Hughes (1981), or listed below.

EXTREMES FOR OF PERIOD OF RECORD.--Maximum daily discharge, 4,170 ft<sup>3</sup>/s (118 m<sup>3</sup>/s) Oct. 15, 1947; maximum reverse flow measured, 390 ft<sup>3</sup>/s (11.0 m<sup>3</sup>/s) June 23, 1943.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	74	6574	100.0	12	16.0	43	6335	96.4	24	330.0	571	4786	72.8
1	1.0	1	6500	98.9	13	21.0	30	6292	95.7	25	430.0	655	4215	64.1
2	1.3	0	6499	98.9	14	27.0	34	6262	95.3	26	550.0	879	3560	54.1
3	1.7	0	6499	98.9	15	34.0	117	6228	94.7	27	710.0	996	2681	40.7
4	2.1	0	6499	98.9	16	44.0	152	6111	93.0	28	910.0	859	1685	25.6
5	2.7	2	6499	98.9	17	57.0	160	5959	90.6	29	1200.0	398	826	12.5
6	3.5	1	6497	98.8	18	73.0	112	5799	88.2	30	1500.0	241	428	6.5
7	4.5	42	6496	98.8	19	94.0	89	5687	86.5	31	2000.0	107	187	2.8
8	5.9	3	6454	98.2	20	120.0	119	5598	85.2	32	2500.0	49	80	1.2
9	7.5	1	6451	98.1	21	160.0	122	5479	83.3	33	3200.0	31	31	.4
10	9.7	70	6450	98.1	22	200.0	285	5357	81.5	34	4200.0			
11	12.0	45	6380	97.0	23	260.0	286	5072	77.2					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02288600 MIAMI CANAL AT N.W. 36th STREET, MIAMI, FL

LOCATION.--Lat 25°48'29", long 80°15'44", in NE¼ sec.29, T.53 S., R.41 E., Dade County, Hydrologic Unit 03090202, at N.W. 36th Street Bridge at Miami, 200 ft (61 m) upstream from salinity-control structure S-26.

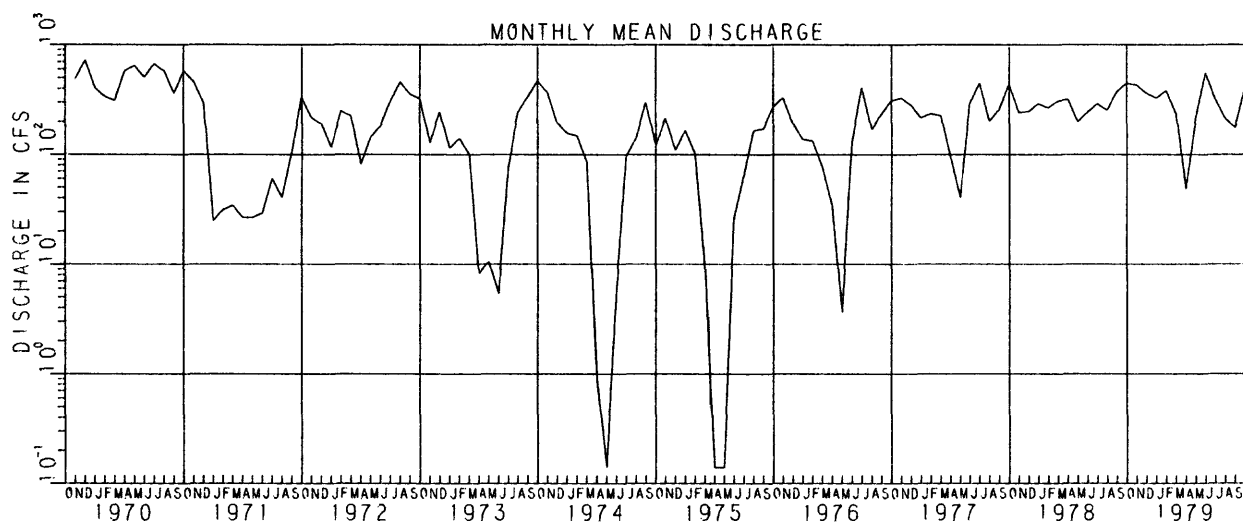
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1959 to September 1979.

REMARKS.--Flow affected by tide and is occasionally reversed. Some seepage losses above station into Miami-Dade Water and Sewer Authority well field for ground-water withdrawals. Natural flow materially affected by levee and control structures 31, 32 and 32A about 14 mi (23 km) upstream, and structure 26 downstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--20 years, 291 ft<sup>3</sup>/s (8.24 m<sup>3</sup>/s), 210,700 acre-ft/yr (260 hm<sup>3</sup>/r).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft<sup>3</sup>/s (53.8 m<sup>3</sup>/s) Oct. 2, 1959; Sept. 8, 1965; maximum reverse flow, 1,400 ft<sup>3</sup>/s (39.6 m<sup>3</sup>/s), estimated, Sept 8, 1965, from hurricane tide.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-1400.0	0	7305	100.0	12	10.0	77	6430	88.0	24	260.0	255	3384	46.3
1	-700.0	0	7305	100.0	13	15.0	74	6353	87.0	25	280.0	258	3129	42.8
2	-300.0	1	7305	100.0	14	20.0	214	6279	86.0	26	300.0	536	2871	39.3
3	-100.0	0	7304	100.0	15	29.0	236	6065	83.0	27	350.0	551	2335	31.9
4	-50.0	14	7304	100.0	16	41.0	172	5829	79.8	28	420.0	518	1784	24.4
5	0.0	627	7290	99.8	17	59.0	249	5657	77.4	29	520.0	411	1266	17.3
6	0.1	2	6663	91.2	18	85.0	300	5408	74.0	30	630.0	343	855	11.7
7	0.3	3	6661	91.2	19	120.0	298	5108	69.9	31	750.0	284	512	7.0
8	0.5	8	6658	91.1	20	150.0	354	4810	65.8	32	900.0	128	228	3.1
9	1.0	25	6650	91.0	21	180.0	474	4456	61.0	33	1100.0	100	100	1.3
10	3.0	10	6625	90.7	22	220.0	297	3982	54.5	34	1600.0			
11	5.0	185	6615	90.6	23	240.0	301	3685	50.4					

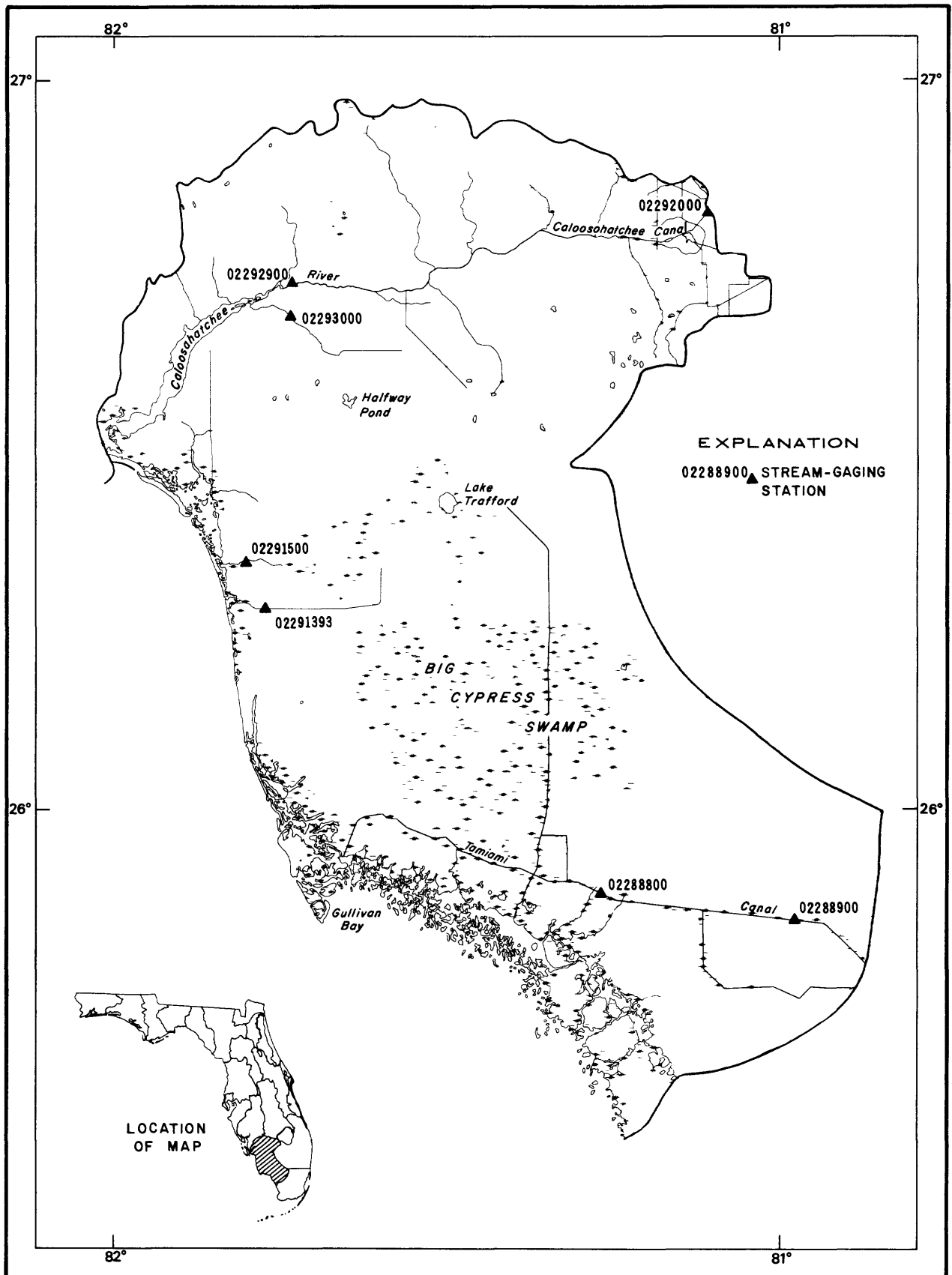


Figure 10.-- Stations in the Big Cypress Swamp and southwestern coastal area, including the Caloosahatchee River.

## SOUTH FLORIDA

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02288800 TAMIAI CANAL OUTLETS, MONROE TO CARNESTOWN, FL

LOCATION.--Lat 25°53'10", long 81°15'30", in NW¼ sec.6, T.53 S., R.31 E., Collier County, Hydrologic Unit 03090204, at bridge 84 on U.S. Highway 41, 7 mi (11 km) east of Carnestown, and 10 mi (16 km) west of Monroe.

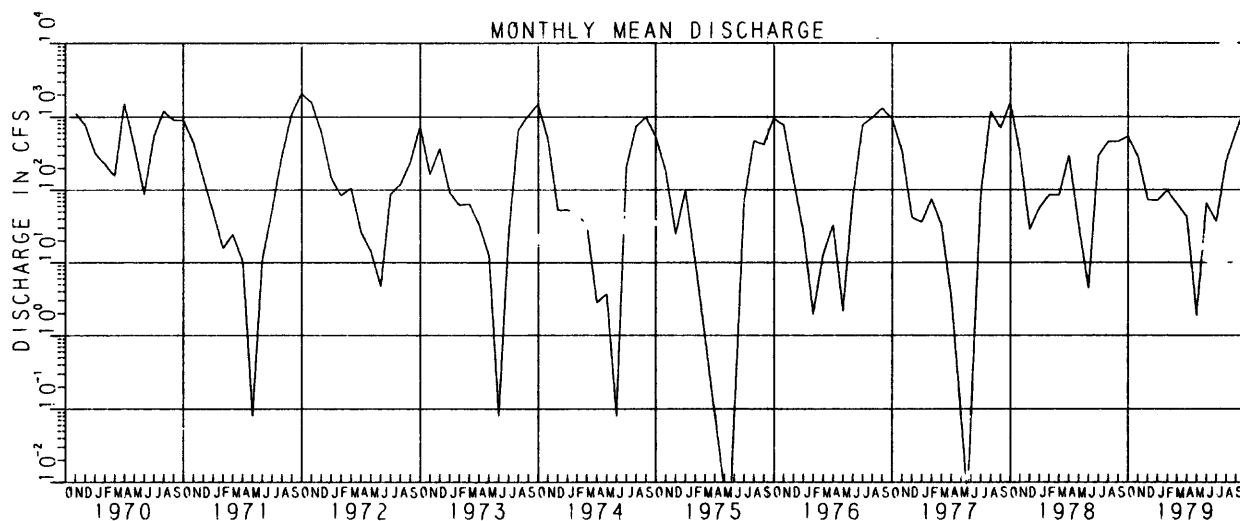
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1960 to September 1979.

REMARKS.--Figures of discharge consist of runoff from Big Cypress Watershed as represented by flow through all the outlets of the Tamiami Canal from Monroe, 55 mi (88 km) west of Miami, to a point 1 mi (1.6 km) east of the intersection with State Highway 29 at Carnestown. Flow at westernmost outlets slightly affected by tide.

AVERAGE DISCHARGE.--19 years, 360 ft<sup>3</sup>/s (10.2 m<sup>3</sup>/s), 260,600 acre-ft/yr (321 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 6,010 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) Sept. 13, 1960; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	651	6939	100.00	12	1.3	34	6171	88.93	24	160.0	318	28	9.41
1	0.01	5	6288	90.52	13	1.4	59	6132	88.37	25	230.0	370	2	.83
2	0.02	1	6283	90.55	14	2.6	69	6073	87.52	26	350.0	409	2	.49
3	0.03	4	6262	90.53	15	4.2	144	6004	86.53	27	520.0	532	2	.10
4	0.05	7	6278	90.47	16	6.3	110	5860	84.45	28	780.0	601		15.73
5	0.08	4	6271	90.37	17	9.4	267	5750	82.86	29	1200.0	325		8.27
6	0.11	9	6267	90.32	18	14.0	272	5433	79.02	30	1700.0	185	249	3.59
7	0.17	6	6258	90.19	19	21.0	282	5211	75.10	31	2600.0	45	64	0.92
8	0.25	11	6252	90.10	20	31.0	565	4929	71.03	32	3900.0	19	19	0.27
9	0.37	16	6241	89.94	21	47.0	575	4364	62.89	33	5800.0	0	0	0.00
10	0.56	19	6225	89.71	22	70.0	485	3739	54.60					
11	0.84	35	6206	89.44	23	100.0	500	3304	47.61					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.99	1.7	0.00	0.00	0.00	0.00	45	87	150	65	11	12

## SOUTH FLORIDA

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02288900 TAMIAMI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL

LOCATION.--Lat 25°51'05", long 80°58'50", in SW¼ sec.13, T.53 S., R.33 E., Collier County, Hydrologic Unit 03090202, at bridge 105 on U.S. Highway 41, and 54 mi (87 km) west of Miami, Dade County.

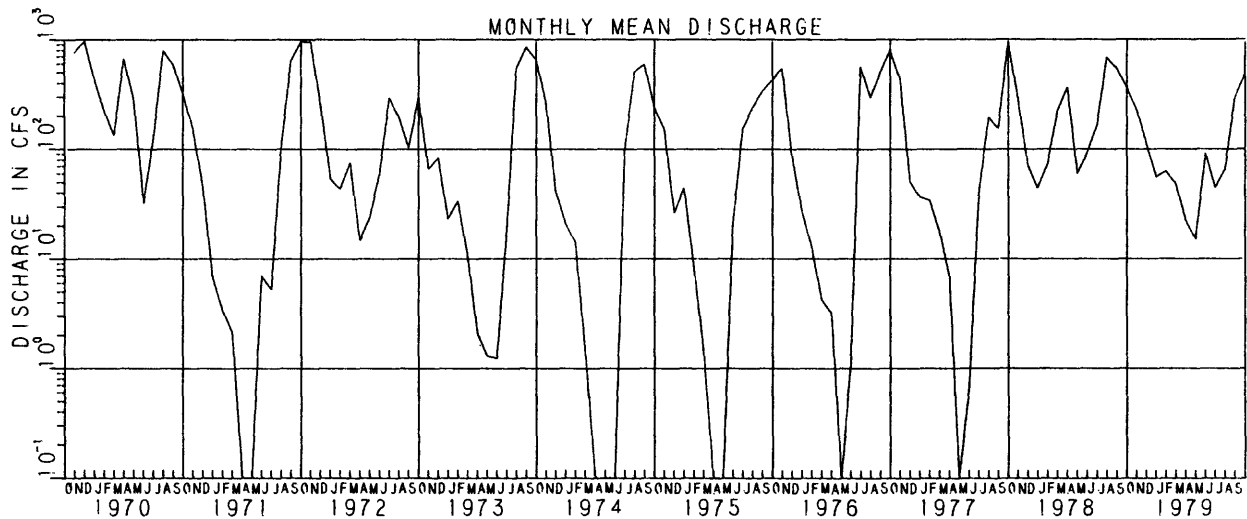
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1979. Records for October 1963 to September 1979 used in this analysis.

AVERAGE DISCHARGE.--39 years (water years 1941-79), 259 ft<sup>3</sup>/s (7.33 m<sup>3</sup>/s) 187,500 acre-ft/yr (231 hm<sup>3</sup>/yr).

REMARKS.--Discharge consist of runoff from Big Cypress Watershed and the Everglades as represented by flow through all 29 bridges from bridge 28 to 22 and bridge 117 to 96.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,800 ft<sup>3</sup>/s (108 m<sup>3</sup>/s) July 2, 1966; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	464	5644	100.00	12	1.1	48	5296	89.08	24	110.0	362	2485	42.52
1	0.01	2	5380	92.06	13	1.6	108	5158	86.26	25	170.0	316	2123	36.33
2	0.02	2	5378	92.03	14	2.3	94	5050	86.41	26	240.0	469	1807	30.92
3	0.03	2	5376	91.99	15	3.4	101	4956	84.80	27	360.0	373	1398	23.92
4	0.05	1	5374	91.96	16	5.0	147	4855	83.08	28	530.0	469	1025	17.54
5	0.07	4	5373	91.94	17	7.4	105	4708	80.56	29	740.0	362	556	9.51
6	0.10	6	5369	91.87	18	11.0	164	4603	78.76	30	1200.0	150	194	3.32
7	0.15	13	5363	91.77	19	16.0	270	4439	75.96	31	1700.0	55	44	0.75
8	0.22	14	5350	91.55	20	24.0	347	4169	71.34	32	2500.0	7	9	0.15
9	0.33	15	5336	91.31	21	35.0	478	3822	65.40	33	3700.0	2	2	0.03
10	0.49	39	5321	91.05	22	52.0	503	3344	57.22					
11	0.72	76	5282	90.38	23	76.0	356	2441	48.61					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
5.5	0.6	0.00	0.00	0.00	1.3	21	96	122	56	19	7.3

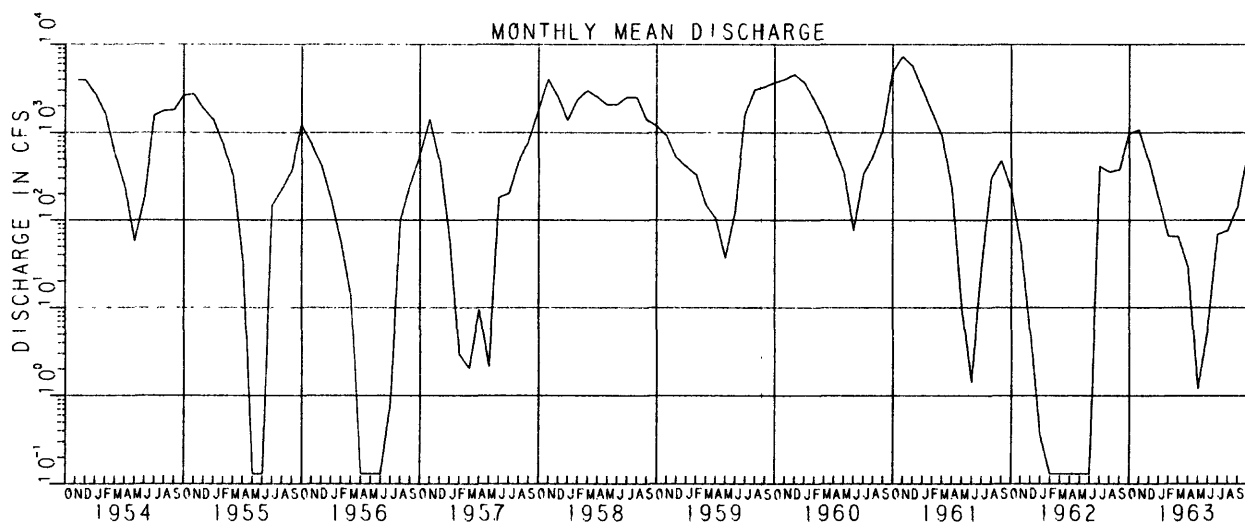
SOUTH FLORIDA  
EVERGLADES AND SOUTHEASTERN COASTAL AREA  
02289000 TAMIAMI CANAL OUTLETS, MIAMI TO MONROE, FL

LOCATION.--Lat 25°45'50", long 80°49'50", in SE¼ sec.16, T.54 S., R.35 E., Dade County, Hydrologic Unit 03090202, at 40-mile bend on U. S. Highway 41, 38 miles (61 km) west of Miami.

PERIOD OF RECORD.--November 1939 to September 1963.

REMARKS.--Discharge consist of runoff from the Everglades as represented by flow through all outlets of Tamiami Canal from Monroe, 55 miles (88 km) west of Miami, to point 18 miles (29 km) west of Miami, where a levee aids in diverting flow southward. Since July 1952, flow affected by extensive levee and control works to the north for agricultural and flood control purposes. Negative discharges treated as zero values. No low-flow data contained in Hughes (1981), or listed below.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,000 ft<sup>3</sup>/s (481 m<sup>3</sup>/s) Oct. 12, 1947; maximum daily reverse flow, 2.0 ft<sup>3</sup>/s (0.06 m<sup>3</sup>/s) May 1-10, 1949; no flow for several days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-2.0	24	8735	100.0	12	8.0	183	7299	83.6	24	350.0	244	3784	43.3
1	-1.0	10	8711	99.7	13	11.0	187	7116	81.5	25	400.0	208	3540	40.5
2	-0.5	0	8701	99.6	14	16.0	182	6929	79.3	26	450.0	512	3332	38.1
3	-0.2	0	8701	99.6	15	23.0	299	6747	77.2	27	600.0	511	2820	32.2
4	0.0	672	8701	99.6	16	33.0	351	6448	73.8	28	800.0	535	2309	26.4
5	0.2	49	8029	91.9	17	48.0	288	6097	69.8	29	1200.0	419	1774	20.3
6	0.5	35	7980	91.4	18	69.0	385	5809	66.5	30	1600.0	302	1355	15.5
7	1.0	108	7945	91.0	19	100.0	298	5424	62.1	31	2000.0	477	1053	12.0
8	1.5	17	7837	89.7	20	140.0	402	5126	58.7	32	3000.0	523	576	6.5
9	2.0	239	7820	89.5	21	200.0	370	4724	54.1	33	7000.0	51	53	.6
10	4.0	172	7581	86.8	22	250.0	301	4354	49.8	34	16000.0	2	2	
11	6.0	110	7409	84.8	23	300.0	269	4053	46.4					

SOUTH FLORIDA  
EVERGLADES AND SOUTHEASTERN COASTAL AREA  
02289030 LEVEE 3 CANAL NEAR CLEWISTON, FL

LOCATION.--Lat 26°25'50", long 80°56'50", in NW¼ sec.4, T.47 S., R.34., Hendry County, Hydrologic Unit 03090202, at bridge on private road, 100 ft (30 m) upstream from Deerfence Canal, 2 mi (3 km) east of State Highway 846, and 22 mi (35 km) south of Clewiston.

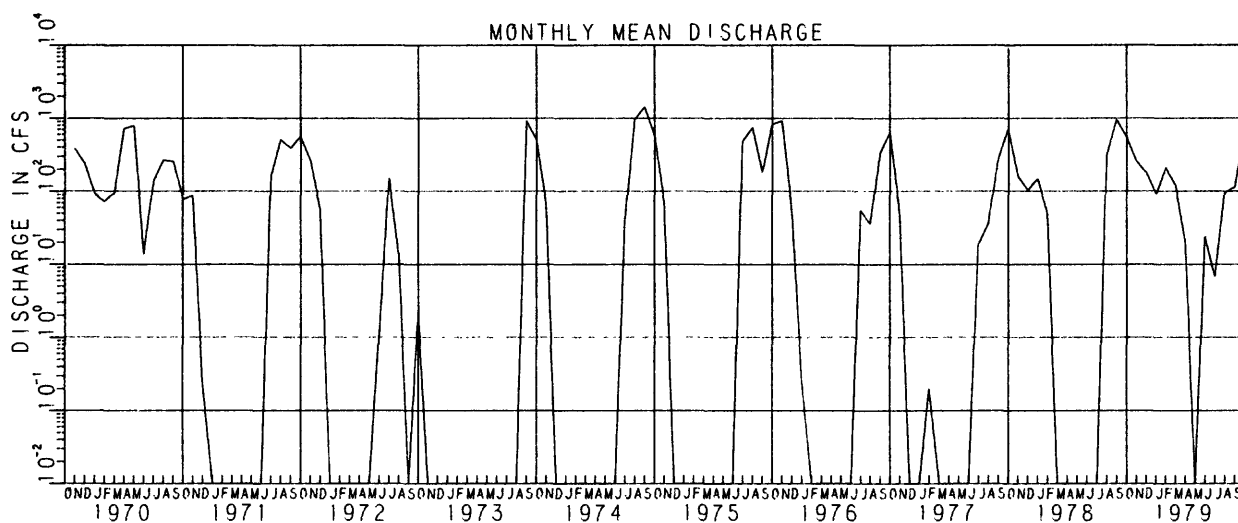
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1969 to September 1979.

REMARKS.--Flow at this location includes the flow of Deerfence Canal. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--10 years, 162 ft<sup>3</sup>/s (4.59 m<sup>3</sup>/s), 117,300 acre-ft/yr (145 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,580 ft<sup>3</sup>/s (44.7 m<sup>3</sup>/s) Aug. 17, 1974; no flow for some days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	1945	3652	100.00	12	1.1	4	1679	45.97	24	58.0	100	1334	36.53
1	0.03	2	1707	46.74	13	1.6	4	1675	45.87	25	80.0	127	1234	33.79
2	0.04	1	1705	46.69	14	2.2	10	1666	45.62	26	110.0	148	1107	30.31
3	0.06	1	1704	46.66	15	3.0	17	1656	45.35	27	160.0	147	954	26.25
4	0.08	1	1703	46.63	16	4.2	19	1639	44.88	28	220.0	127	812	22.23
5	0.11	0	1702	46.60	17	5.0	33	1620	44.36	29	300.0	126	685	18.76
6	0.16	2	1702	46.60	18	9.0	12	1587	43.46	30	420.0	150	529	14.49
7	0.22	0	1700	46.55	19	11.0	25	1575	43.13	31	560.0	135	379	10.38
8	0.30	10	1700	46.55	20	16.0	39	1550	42.44	32	800.0	140	244	6.68
9	0.42	3	1690	46.28	21	22.0	38	1511	41.37	33	1100.0	104	104	2.85
10	0.58	4	1687	46.19	22	30.0	52	1473	40.33	34	1600.0	0	0	0.00
11	0.80	4	1683	46.08	23	42.0	87	1421	38.91					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289040 TAMiami CANAL OUTLETS, LEVEE 67A TO 40-MILE BEND, NEAR MIAMI, FL

LOCATION.--Lat 25°45'22", long 80°43'34", in N1/2 sec.22, T.54 S., R.36 E., Dade County, Hydrologic Unit 03090202, at levee 29 borrow canal, 100 ft (30 m) northwest of control structure 12-C, and 33 mi (53 km) west of Miami.

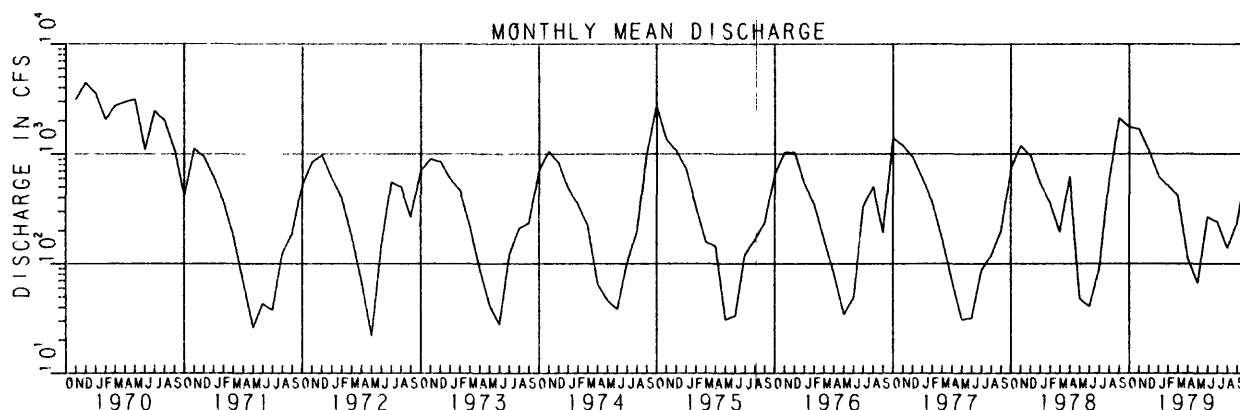
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1979      October 1963 to September 1979 used for the analysis in this report.

REMARKS.--Discharge is the total discharge through the S-12 structure A, B, C, and D from Conservation Area 3-A. Prior to October 1963 discharge was the total discharge southward through 12 bridges from bridge 40 to 29.

AVERAGE DISCHARGE.--38 years, 383 ft<sup>3</sup>/s (10.8 m<sup>3</sup>/s), 277,300 acre-ft/yr (342 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,810 ft<sup>3</sup>/s (136 m<sup>3</sup>/s) Aug. 10, 11, 1968; no flow for some days most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	648	5844	100.0	12	27.0	132	4992	85.4	24	450.0	399	2401	41.0
1	2.0	1	5196	88.9	13	34.0	199	4860	83.2	25	570.0	325	2002	34.2
2	2.5	0	5195	88.9	14	43.0	175	4661	79.8	26	730.0	288	1677	28.6
3	3.2	3	5195	88.9	15	54.0	180	4486	76.8	27	920.0	366	1389	23.7
4	4.1	2	5192	88.8	16	69.0	170	4306	73.7	28	1200.0	160	1023	17.5
5	5.1	4	5190	88.8	17	87.0	281	4136	70.8	29	1500.0	133	863	14.7
6	6.5	13	5186	88.7	18	110.0	357	3855	66.0	30	1900.0	150	730	12.4
7	8.2	1	5173	88.5	19	140.0	369	3498	59.9	31	2400.0	175	580	9.9
8	10.0	21	5172	88.5	20	180.0	159	3129	53.5	32	3000.0	271	405	6.9
9	13.0	14	5151	88.1	21	220.0	171	2970	50.8	33	3800.0	132	134	2.2
10	17.0	86	5137	87.9	22	280.0	172	2799	47.9	34	4800.0	2	2	
11	21.0	59	5051	86.4	23	360.0	226	2627	45.0					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
11	23	23	6.6	4.8	8.7	15	20	86	25	20	10

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289060 TAMIAHI CANAL OUTLETS, LEVEE 30 TO LEVEE 67A, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°33'40", in SE¼ sec.6, T.54 S., R.38 E., Dade County, Hydrologic Unit 03090202, 50 ft (15 m) west of bridge 53 on U.S. Highway 41, and 22.8 mi (36.7 km) west of Miami.

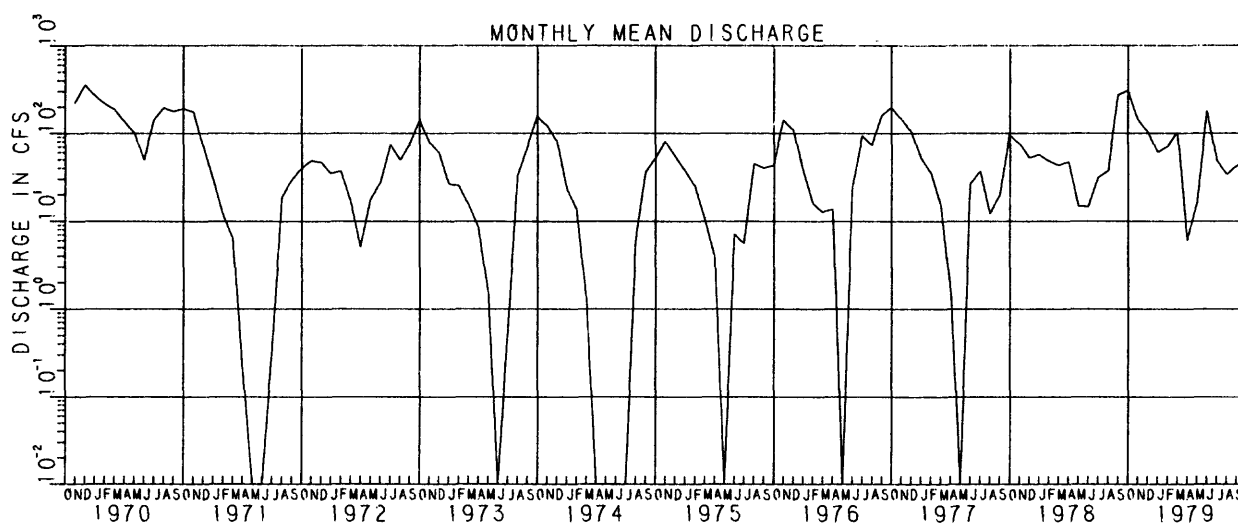
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1963 to September 1979.

REMARKS.--Figures of daily discharge consist entirely of seepage through levee 29 from Conservation Area 3B as represented by flow through all the outlets of Tamiami Canal from levee 30 to levee 67A. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--39 years, 227 ft<sup>3</sup>/s (6.43 m<sup>3</sup>/s), 164,300 acre-ft/yr (202 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 450 ft<sup>3</sup>/s (12.7 m<sup>3</sup>/s) Oct. 18, 1968; maximum daily reverse flow, 7.0 ft<sup>3</sup>/s (0.20 m<sup>3</sup>/s) estimated, May 11, 12, 1964.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-7.0	7	5844	100.0	12	4.0	102	4949	84.7	24	60.0	147	2547	43.5
1	-5.0	16	5837	99.9	13	6.0	167	4847	82.9	25	65.0	134	2400	41.0
2	-3.0	11	5821	99.6	14	10.0	245	4680	80.1	26	70.0	214	2266	38.7
3	-2.0	14	5810	99.4	15	15.0	243	4435	75.9	27	80.0	151	2052	35.1
4	-1.0	19	5796	99.2	16	20.0	195	4192	71.7	28	90.0	132	1901	32.5
5	-0.5	0	5777	98.9	17	25.0	215	3997	68.4	29	100.0	261	1769	30.2
6	0.0	564	5777	98.9	18	30.0	199	3782	64.7	30	120.0	451	1508	25.8
7	0.3	10	5213	89.2	19	35.0	198	3583	61.3	31	150.0	328	1057	18.0
8	0.6	7	5203	89.0	20	40.0	251	3385	57.9	32	180.0	543	729	12.4
9	0.9	43	5196	88.9	21	45.0	270	3134	53.6	33	280.0	185	186	3.1
10	1.5	18	5153	88.2	22	50.0	187	2914	49.9	34	460.0	1	1	
11	2.0	186	5135	87.9	23	55.0	180	2727	46.7					

DADE COUNTY  
EVERGLADES AND SOUTHEASTERN COASTAL AREA  
02289500 TAMiami CANAL NEAR CORAL GABLES, FL

LOCATION.--Lat 25°45'43", long 80°19'42", in SW¼ sec.3, T.54 S., R.40 E., Dade County, Hydrologic Unit 03090202, at footbridge, 25 ft (8 m) from south bank, half a mile upstream from Coral Gables, 2.5 mi (4.0 km) west of Coral Gables, 3.5 mi (5.6 km) downstream from Snapper Creek Canal, and 6.2 mi (10.0 km) upstream from mouth.

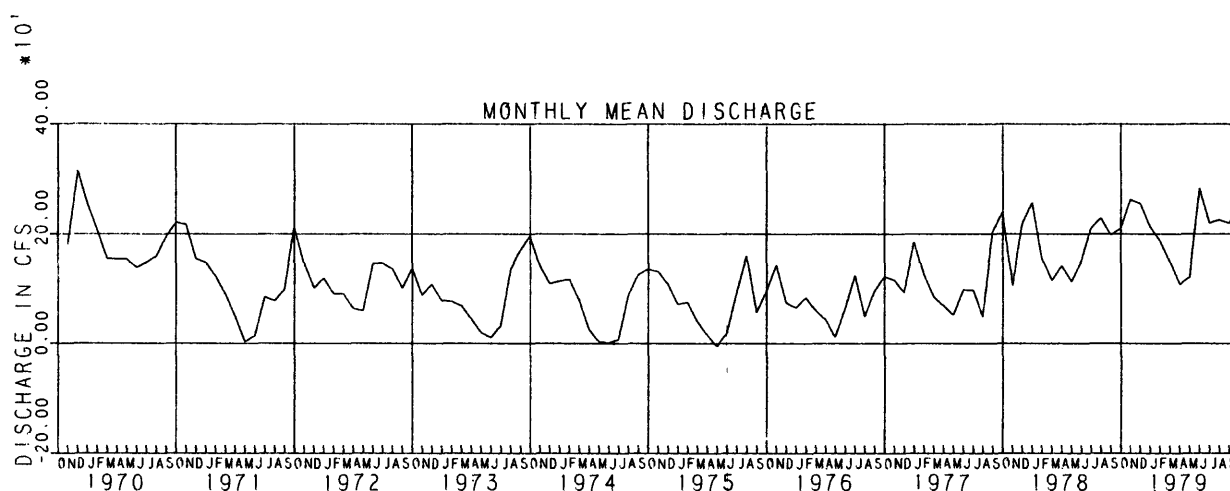
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1940 to June 1943, October 1959 to September 1979.

REMARKS.--The flow is slightly affected by tide and is regulated by control structure at Dade-Broward Levee, 7.5 mi (12.1 km) upstream and at salinity-control structure S-25, 1.2 mi (1.9 km) downstream. The canal is blocked by Levee 30, 10.5 mi (16.9 km) upstream. Flow is diverted to and from Snapper Creek Canal 3.5 mi (5.6 km) upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--20 years (water years 1960-79), 134 ft³/s (3.79 m³/s) 97,010 acre-ft/yr (120 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 554 ft³/s (15.7 m³/s) Sept. 23, 1960; maximum daily reverse flow 28 ft³/s (0.79 m³/s) May 4, 5, 6, 1975.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-28.0	9	8308	100.0	12	16.0	239	7804	93.9	24	145.0	322	3307	39.8
1	-20.0	10	8299	99.9	13	25.0	396	7565	91.1	25	155.0	275	2985	35.9
2	-10.0	10	8289	99.8	14	40.0	259	7169	86.3	26	165.0	195	2710	32.6
3	-5.0	9	8279	99.7	15	50.0	528	6910	83.2	27	175.0	193	2515	30.2
4	-1.0	2	8270	99.5	16	65.0	444	6382	76.8	28	185.0	305	2322	27.9
5	0.0	118	8268	99.5	17	75.0	410	5938	71.5	29	200.0	890	2017	24.2
6	0.5	9	8150	98.1	18	85.0	435	5528	66.5	30	250.0	645	1127	13.5
7	1.0	11	8141	98.0	19	95.0	365	5093	61.3	31	300.0	278	482	5.8
8	2.0	38	8130	97.9	20	105.0	358	4728	56.9	32	350.0	138	204	2.4
9	4.0	76	8092	97.4	21	115.0	383	4370	52.6	33	400.0	65	66	.7
10	8.0	84	8016	96.5	22	125.0	344	3987	48.0	34	550.0	1	1	
11	12.0	128	7932	95.5	23	135.0	336	3643	43.8					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290610 SNAPPER CREEK CANAL AT MILLER DRIVE, NEAR SOUTH MIAMI, FL

LOCATION.--Lat 25°42'56", long 80°22'59", in SW¼ sec.19, T.54 S., R.40 E., Dade County, Hydrologic Unit 03090202, 3 mi (5 km) south of Tamiami Canal, 5 mi (8 km) west of South Miami, and 9.8 mi (15.8 km) upstream from mouth.

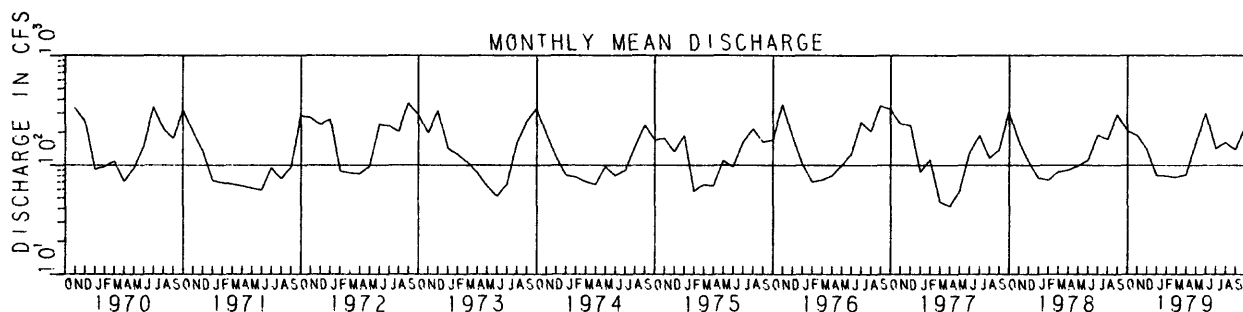
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1968 to September 1979.

REMARKS.--Flow is regulated by operation of control structure 22, 8.4 mi (13.5 km) downstream, and affected by operation of salinity barrier S-25 in Tamiami Canal. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--11 years, 162 ft<sup>3</sup>/s (4.59 m<sup>3</sup>/s), 117,300 acre-ft/yr (145 m<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 795 ft<sup>3</sup>/s (22.5 m<sup>3</sup>/s) Oct. 17, 1968; no flow for some days during 1977 water year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	14	4017	100.0	12	9.3	1	3999	99.6	24	100.0	516	2397	59.6
1	1.0	1	4003	99.7	13	11.0	1	3998	99.5	25	130.0	304	1881	46.8
2	1.2	1	4002	99.6	14	14.0	1	3997	99.5	26	160.0	266	1577	39.2
3	1.5	0	4001	99.6	15	17.0	5	3996	99.5	27	190.0	419	1311	32.6
4	1.8	0	4001	99.6	16	21.0	8	3991	99.4	28	240.0	333	892	22.2
5	2.2	0	4001	99.6	17	25.0	9	3983	99.2	29	290.0	243	559	13.9
6	2.8	1	4001	99.6	18	31.0	27	3974	98.9	30	350.0	186	316	7.8
7	3.4	0	4000	99.6	19	38.0	60	3947	98.3	31	430.0	95	130	3.2
8	4.1	1	4000	99.6	20	47.0	110	3887	96.8	32	530.0	27	35	.8
9	5.0	0	3999	99.6	21	57.0	447	3777	94.0	33	650.0	6	8	.1
10	6.2	0	3999	99.6	22	70.0	610	3330	82.9	34	790.0	2	2	
11	7.6	0	3999	99.6	23	86.0	323	2720	67.7					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290700 SNAPPER CREEK CANAL AT S-22, NEAR SOUTH MIAMI, FL

LOCATION.--Lat 25°40'11", long 80°17'03", in NW¼ sec.7, T.55 S., R.41 E., Dade County, Hydrologic Unit 03090202, 300 ft (91 m) upstream from salinity-control structure 22, 1.4 mi (2.3 km) upstream from mouth, and 2.5 mi (4.0 km) south of South Miami.

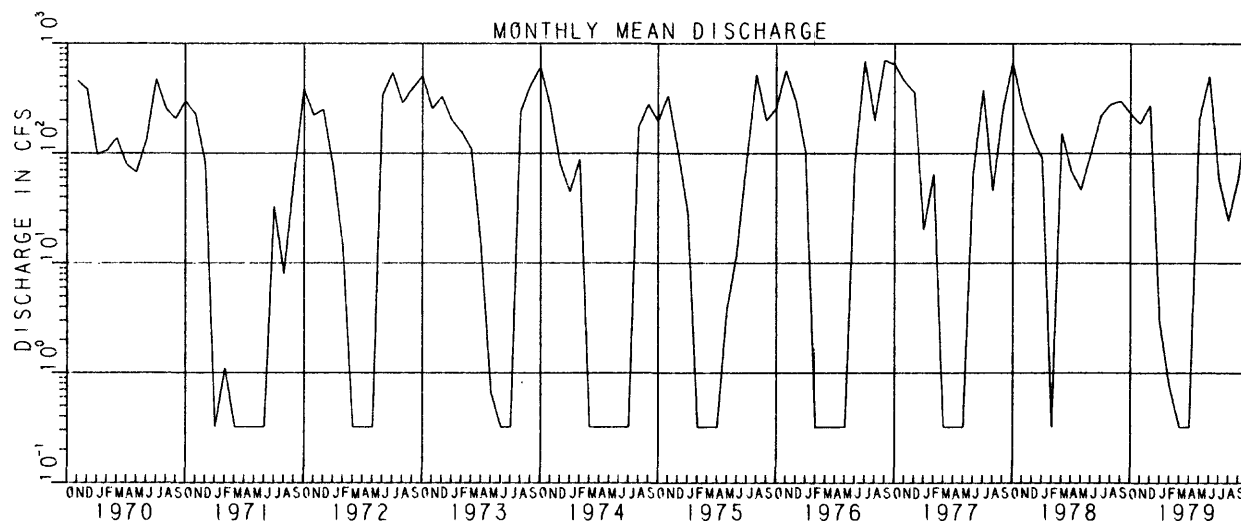
DRAINAGE AREA.--Indeterminate.

RECORDS AVAILABLE.--February 1959 to September 1979.

REMARKS.--Flow affected by tide and operation of salinity-control structure 22 is occasionally reversed. Some seepage losses above station into City of Miami southwest well field. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--20 years, 218 ft<sup>3</sup>/s (6.17 m<sup>3</sup>/s), 157,800 acre-ft/yr (195 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,080 ft<sup>3</sup>/s (58.9 m<sup>3</sup>/s) Sept. 11, 1960; no flow for many days each year; maximum reverse flow, 1,220 ft<sup>3</sup>/s (34.6 m<sup>3</sup>/s) Sept. 10, 1960.



CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-1300.0	0	7305	100.0	12	150.0	430	3313	45.4	24	600.0	143	795	10.8
1	-100.0	0	7305	100.0	13	200.0	310	2883	39.5	25	650.0	277	652	8.9
2	0.0	3204	7305	100.0	14	250.0	146	2573	35.2	26	800.0	118	375	5.1
3	0.6	1	4101	56.1	15	275.0	159	2427	33.2	27	900.0	115	257	3.5
4	1.0	2	4100	56.1	16	300.0	148	2268	31.0	28	1000.0	95	142	1.9
5	2.0	8	4098	56.1	17	325.0	154	2120	29.0	29	1200.0	41	47	.6
6	5.0	19	4090	56.0	18	350.0	149	1966	26.9	30	1500.0	5	6	
7	10.0	112	4071	55.7	19	375.0	158	1817	24.9	31	2000.0	1	1	
8	50.0	116	3959	54.2	20	400.0	271	1659	22.7					
9	70.0	119	3843	52.6	21	450.0	235	1388	19.0					
10	90.0	117	3724	51.0	22	500.0	185	1153	15.8					
11	100.0	294	3607	49.4	23	550.0	173	968	13.3					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

LOCATION.--Lat 25°19'49", long 80°31'31", in NW¼ sec.3, T.59 S., R.38 E., Dade County, Hydrologic Unit 03090202, at control structure 18-C, and 8.5 mi (13.7 km) south of Florida City.

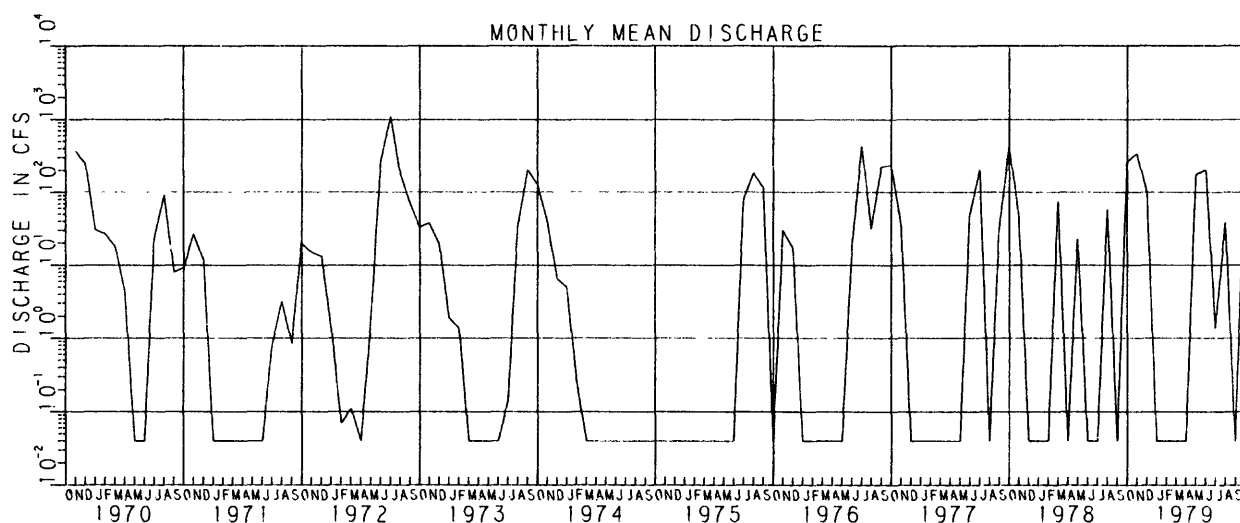
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1968 to September 1979.

REMARKS.--Flow regulated by S-18-C. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--10 years, 73.9 ft<sup>3</sup>/s (2.09 m<sup>3</sup>/s), 53,500 acre-ft/yr (66.0 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,680 ft<sup>3</sup>/s (47.6 m<sup>3</sup>/s) June 21, 1969; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	2518	4017	100.0	12	4.5	35	1292	32.2	24	150.0	24	419	10.4
1	0.1	6	1499	37.3	13	6.0	38	1257	31.3	25	200.0	30	395	9.8
2	0.2	7	1493	37.2	14	8.1	39	1219	30.3	26	270.0	52	365	9.0
3	0.3	3	1486	37.0	15	11.0	39	1180	29.4	27	360.0	59	313	7.7
4	0.4	14	1483	36.9	16	14.0	87	1141	28.4	28	490.0	63	254	6.3
5	0.6	15	1469	36.6	17	19.0	152	1054	26.2	29	650.0	68	191	4.7
6	0.8	15	1454	36.2	18	26.0	218	902	22.5	30	870.0	71	123	3.0
7	1.0	26	1439	35.8	19	35.0	159	684	17.0	31	1200.0	51	52	1.2
8	1.4	21	1413	35.2	20	47.0	74	525	13.1	32	1600.0	1	1	
9	1.9	18	1392	34.7	21	63.0	10	451	11.2					
10	2.5	45	1374	34.2	22	84.0	3	441	11.0					
11	3.4	37	1329	33.1	23	110.0	19	438	10.9					

## SOUTH FLORIDA

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290800 TAYLOR SLOUGH NEAR HOMESTEAD, FL

LOCATION.--Lat 25°24'05", long 80°36'25", in NE¼ sec.10, T.58 S., R.37 E., Dade County, Hydrologic Unit 03090202, at bridge on State Highway 27, in Everglades National Park, 1.5 mi (2.4 km) north of Royal Palm Ranger Station, and 9 mi (14 km) southwest of Homestead.

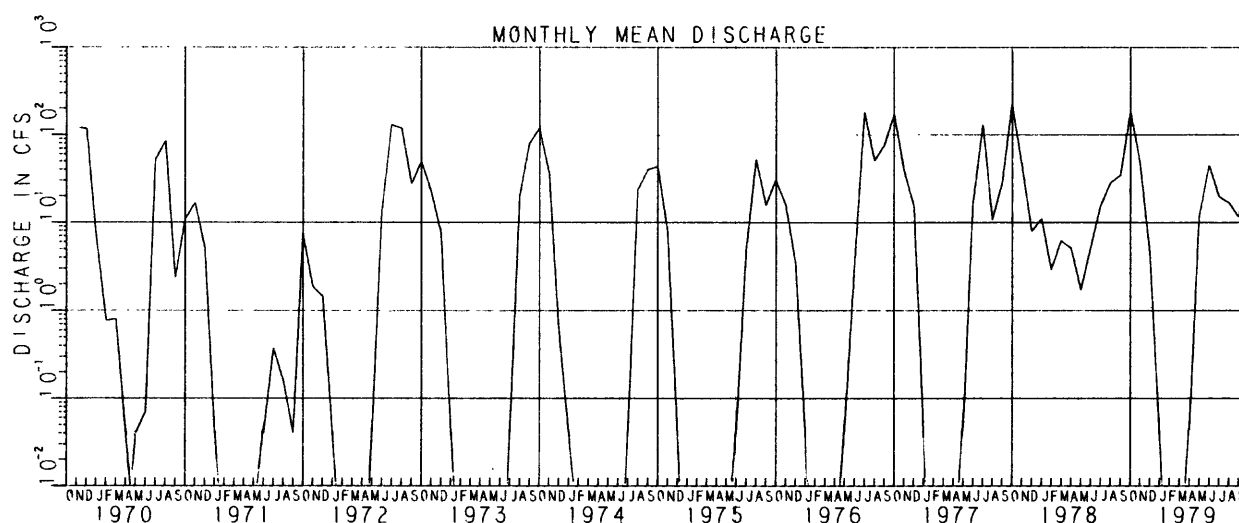
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1960 to current year.

REMARKS.--Figures of daily discharge consist of runoff from Taylor Slough, as represented by the flow through all the outlets for a distance of some 3 mi (5 km) along State Highway 27 in the Everglades National Park. During periods of extremes high water possibly some flow is diverted from Shark River Slough. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--19 years, 35.9 ft<sup>3</sup>/s (1.02 m<sup>3</sup>/s), 25,990 acre-ft/yr (32.0 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 808 ft<sup>3</sup>/s (22.9 m<sup>3</sup>/s) Sept. 23-25, 1960; no flow for many days in most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	3433	6939	100.00	12	1.1	21	3321	47.86	24	40.0	269	1545	22.27
1	0.04	1	3506	50.53	13	1.5	40	3300	47.56	25	54.0	246	1276	18.39
2	0.05	1	3505	50.51	14	2.0	113	3260	46.98	26	72.0	223	1030	14.84
3	0.07	3	3504	50.50	15	2.7	74	3147	45.35	27	98.0	181	807	11.63
4	0.10	9	3501	50.45	16	3.6	113	3068	44.21	28	130.0	211	626	9.02
5	0.13	2	3492	50.32	17	4.9	131	2955	42.59	29	180.0	160	415	5.98
6	0.18	7	3490	50.30	18	6.6	163	2824	40.70	30	240.0	117	255	3.67
7	0.24	10	3483	50.19	19	9.9	202	2661	38.35	31	320.0	88	138	1.99
8	0.33	8	3473	50.05	20	12.0	228	2459	35.44	32	440.0	34	50	0.72
9	0.44	14	3465	49.94	21	16.0	238	2231	32.15	33	590.0	16	16	0.23
10	0.60	19	3451	49.73	22	22.0	199	1993	28.72	34	800.0	0	0	0.00
11	0.80	111	3432	49.45	23	29.0	249	1794	25.85					

## SOUTH FLORIDA

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291000 BARRON RIVER CANAL NEAR EVERGLADES, FL

LOCATION.--Lat 25°57'28", long 81°21'19", in NW¼ sec.7, T.52 S., R.30 E., Collier County, Hydrologic Unit 03090204, 40 ft (12 m) upstream from control structure, 0.7 mi (1.1 km) north of Copeland, 7 mi (11 km) north of town of Everglades, and 7.5 mi (12.1 km) upstream from mouth.

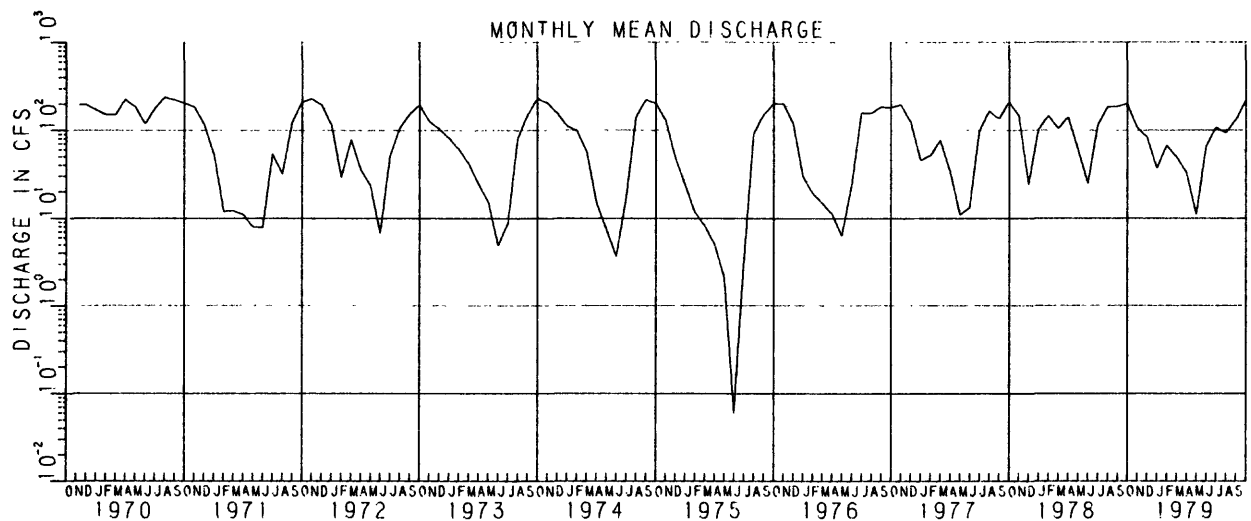
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1952 to September 1979.

REMARK.--Flow regulated by operation of control structure at, above, and below station, and is occasionally affected by tide. Overbank flow not included in discharge figures. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--27 years, 101 ft<sup>3</sup>/s (2.86 m<sup>3</sup>/s), 73,120 acre-ft/yr (90.2 hm<sup>3</sup>/yr)

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 292 ft<sup>3</sup>/s (8.27 m<sup>3</sup>/s) Sept. 25, 1962. no flow many days.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	41	9861	100.00	12	0.42	3	9757	98.95	24	18.0	394	8280	83.97
1	0.01	2	9820	99.58	13	0.57	3	9754	98.91	25	24.0	434	1886	79.97
2	0.02	3	9818	99.56	14	0.75	31	9751	98.88	26	33.0	494	1452	75.57
3	0.03	0	9815	99.53	15	1.1	14	9720	98.57	27	45.0	685	6458	70.56
4	0.04	0	9815	99.53	16	1.5	11	9706	98.43	28	61.0	953	6273	63.61
5	0.05	0	9815	99.53	17	2.0	64	9695	98.32	29	84.0	1100	5320	53.95
6	0.07	0	9815	99.53	18	2.7	62	9631	97.67	30	110.0	1674	4220	42.79
7	0.09	55	9815	99.53	19	3.7	183	9569	97.04	31	160.0	1734	2546	25.87
8	0.12	0	9760	98.98	20	5.1	127	9386	95.18	32	210.0	805	807	5.18
9	0.17	1	9759	98.97	21	6.9	277	9259	93.90	33	290.0	2	2	0.02
10	0.23	1	9758	98.96	22	9.5	313	8982	91.09					
11	0.31	1			23	13.0	389	8669	87.91					

## SOUTH FLORIDA

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291270 HENDERSON CREEK CANAL NEAR NAPLES, FL

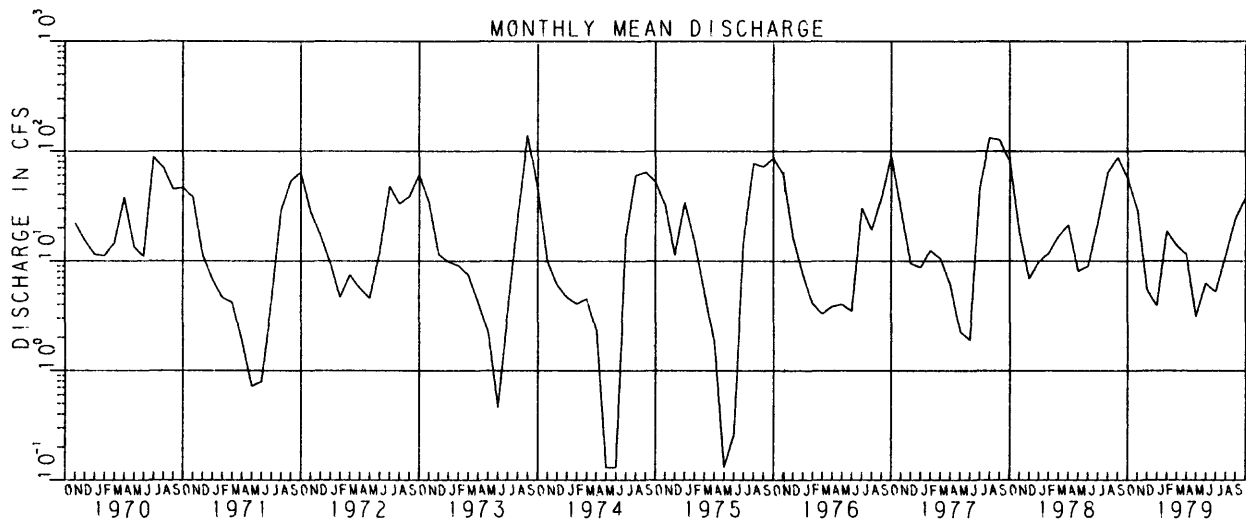
LOCATION.--Lat 26°05'59", long 81°41'14", in SW¼ sec.23, T.50 S., R.26 E., Collier County, Hydrologic Unit 030902024, 5 ft (2 m) downstream from private bridge, 3.8 mi (6.1 km) south of Everglades Parkway, and 7 mi (11 km) southeast of Naples.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1968 to September 1979.

AVERAGE DISCHARGE.--11 years 23.9 ft<sup>3</sup>/s (0.68 m<sup>3</sup>/s), 17,300 acre-ft/yr (21.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 353 ft<sup>3</sup>/s (10.0 m<sup>3</sup>/s) Aug. 21, 1973; no flow for some days in 1974 and 1975.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	95	4017	100.00	12	0.44	22	3640	95.59	24	19.0	266	1427	35.52
1	0.01	1	3922	97.74	13	0.60	32	3414	95.05	25	26.0	263	1161	28.90
2	0.02	3	3921	97.61	14	0.62	31	3786	94.25	26	35.0	244	848	22.35
3	0.03	4	3918	97.54	15	1.1	34	3755	93.48	27	49.0	210	604	15.04
4	0.04	1	3914	97.44	16	1.5	45	3717	92.53	28	66.0	212	334	9.81
5	0.05	6	3913	97.41	17	2.1	102	3632	90.42	29	91.0	47	142	4.53
6	0.07	7	3907	97.26	18	2.9	237	3530	87.88	30	120.0	59	85	2.12
7	0.09	4	3900	97.09	19	3.9	283	3293	81.48	31	170.0	18	26	0.65
8	0.12	5	3896	96.99	20	5.4	293	3010	74.93	32	230.0	6	8	0.20
9	0.17	13	3891	96.80	21	7.4	456	2717	67.64	33	320.0	2	2	0.05
10	0.23	16	3878	96.54	22	10.0	491	2261	56.29					
11	0.32	22	3862	96.14	23	14.0	343	1770	44.06					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3.2	3.0	0.36	0.09	0.02	0.37	9.5	14.0	19.0	8.0	3.8	3.0

## SOUTH FLORIDA

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

## 02291300 GOLDEN GATE CANAL AT NAPLES, FL

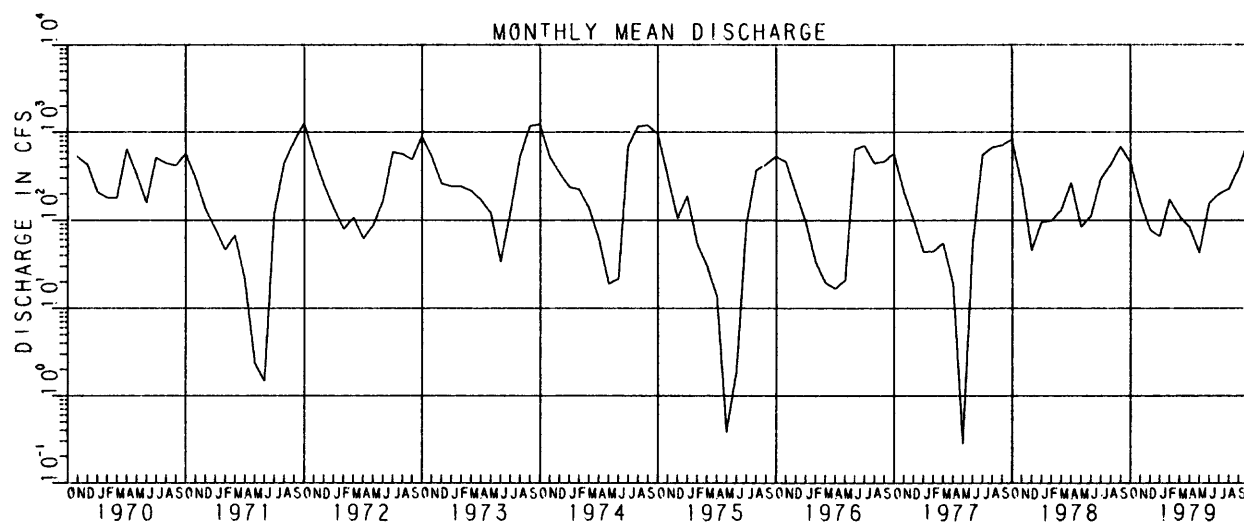
LOCATION.--Lat 26°10'01", long 81°46'02", in NE¼ sec.35, T.49 S., R.25 E., Collier County, Hydrologic Unit 03090204, at bridge on Airport Road, 0.5 mi (0.8 km) upstream from dam, 1.4 mi (2.3 km) upstream from Gordon River, and 1.5 mi (2.4 km) east of Naples city limits.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1964 to September 1979.

AVERAGE DISCHARGE.--15 years, 318 ft<sup>3</sup>/s (9.01 m<sup>3</sup>/s), 230,200 acre-ft/yr (284 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,460 ft<sup>3</sup>/s (98.0 m<sup>3</sup>/s) Sept. 14, 1971; no flow for many days in 1975.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	82	5478	100.00	12	1.9	10	5303	96.81	24	96.0	575	4004	73.07
1	0.05	1	5396	98.50	13	2.6	5	5293	96.62	25	130.0	648	3479	62.60
2	0.07	4	5395	98.48	14	3.6	15	5288	96.53	26	190.0	526	2781	50.77
3	0.10	11	5391	98.41	15	5.0	26	5273	96.26	27	260.0	450	2255	41.10
4	0.13	10	5380	98.21	16	6.9	21	5247	95.78	28	360.0	543	1805	32.95
5	0.19	7	5370	98.03	17	9.5	23	5226	95.40	29	500.0	583	1282	23.04
6	0.26	5	5363	97.90	18	13.0	59	5203	94.98	30	690.0	394	679	12.40
7	0.36	8	5358	97.81	19	19.0	80	5144	93.90	31	960.0	185	285	5.20
8	0.50	8	5350	97.66	20	26.0	107	5064	92.44	32	1300.0	93	100	1.83
9	0.69	16	5342	97.52	21	36.0	224	4957	90.49	33	1900.0	6	7	0.13
10	0.96	8	5326	97.23	22	50.0	315	4733	86.40	34	2600.0	1	1	0.02
11	1.3	15	5318	97.08	23	69.0	414	4418	80.65					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
33	30	7.6	0.00	0.00	28	227	232	345	139	46	45

# SOUTH FLORIDA

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291393 COCOHATCHEE RIVER CANAL NEAR NAPLES PARK, FL

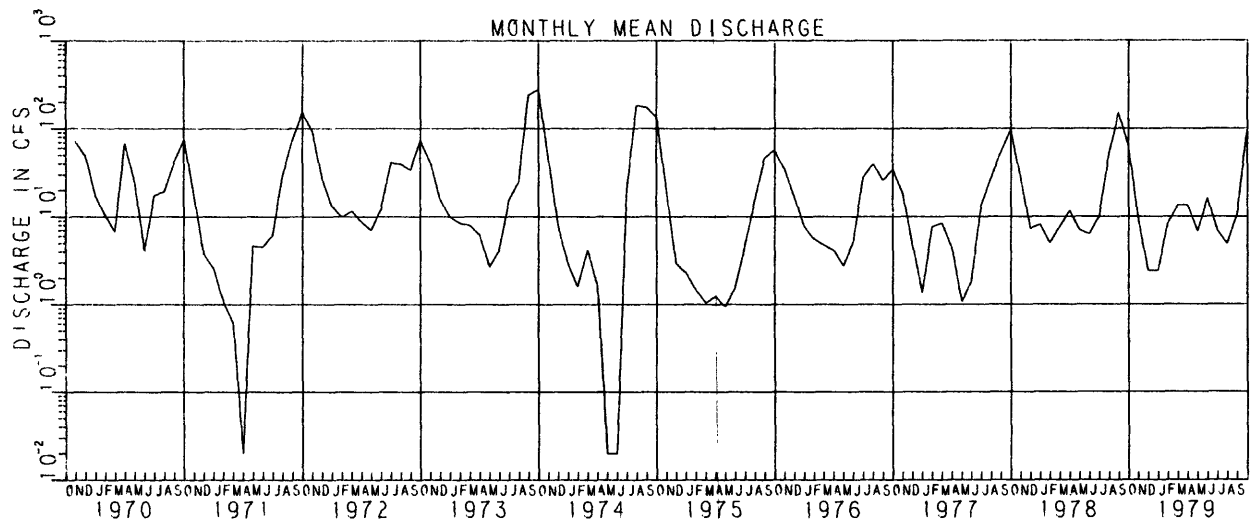
LOCATION.--Lat 26°16'21", long 81°45'53", in SW¼ sec.24, T.48 S., R.25 E., Collier County, Hydrologic Unit 03090204, at Willoughby Acres bridge, 2.3 mi (3.7 km) east of intersection of U.S. Highway 41 and State Highway 846 at Naples Park.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1968 to September 1979.

AVERAGE DISCHARGE.--11 years, 28.7 ft³/s (0.81 m³/s), 20,780 acre-ft/yr (25.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 542 ft³/s (15.3 m³/s) Aug. 31, 1973; no flow for many days in 1971, 1974.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	101	4017	100.0	12	2.7	174	3354	83.5	24	58.0	125	557	13.8
1	0.1	10	3916	97.5	13	3.5	204	3180	79.2	25	74.0	111	432	10.7
2	0.2	4	3906	97.2	14	4.5	308	2976	74.1	26	96.0	87	321	7.9
3	0.3	7	3902	97.1	15	5.8	332	2668	66.4	27	120.0	110	234	5.8
4	0.4	3	3895	97.0	16	7.5	304	2336	58.2	28	160.0	67	124	3.0
5	0.5	2	3892	96.9	17	9.7	320	2032	50.6	29	210.0	23	57	1.4
6	0.6	22	3890	96.8	18	13.0	212	1712	42.6	30	260.0	14	34	.8
7	0.8	89	3868	96.3	19	16.0	250	1500	37.3	31	340.0	18	20	.4
8	1.0	81	3779	94.1	20	21.0	197	1250	31.1	32	440.0	2	2	
9	1.3	89	3698	92.1	21	27.0	176	1053	26.2					
10	1.6	124	3609	89.8	22	35.0	175	877	21.8					
11	2.1	131	3485	86.8	23	45.0	145	702	17.5					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.45	0.80	0.10	0.41	0.54	1.9	5.0	7.7	22	5.5	1.7	1.1

# SOUTH FLORIDA

## BIG CYPRESS SWAMP AND SOUTHEASTERN COASTAL AREA

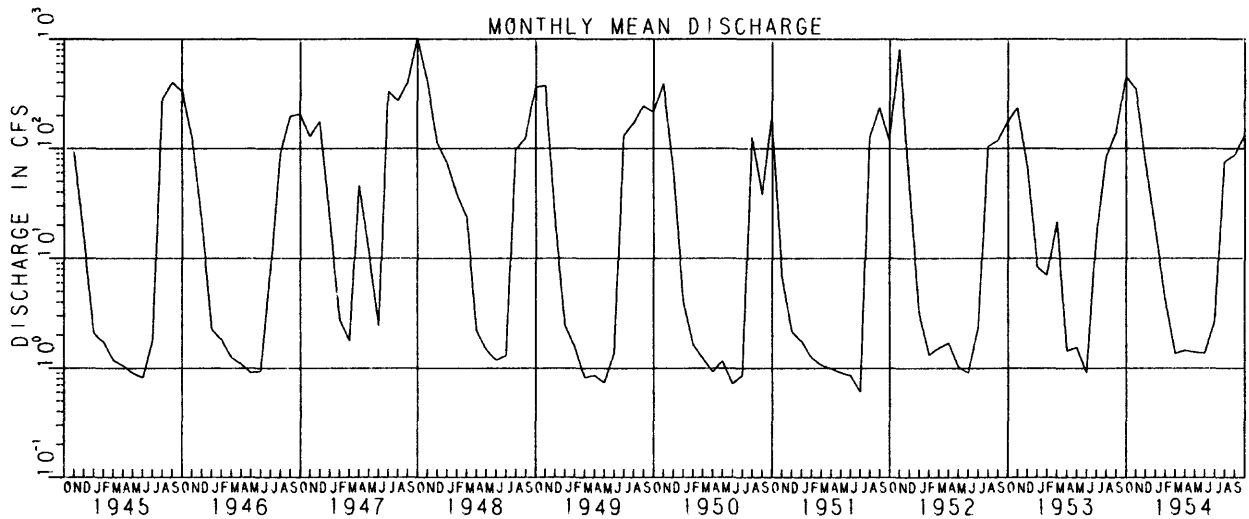
02291500 IMPERIAL RIVER NEAR BONITA SPRINGS, FL

LOCATION.--Lat 26°20'00", long 81°45'00", in sec.36, T.47 S., R.25 E., Lee County, Hydrologic Unit 03090204, 1.5 miles (2.4 km) east of Bonita Springs.

PERIOD OF RECORD.--May 1940 to November 1954.

AVERAGE DISCHARGE.--14 years, 86.0 ft<sup>3</sup>/s (2.44 m<sup>3</sup>/s), 62,340 acre-ft/yr (76.9 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--1940-54: Maximum discharge observed, 2,890 ft<sup>3</sup>/s (81.8 m<sup>3</sup>/s) Sept. 12, 1940; no flow June 28, to July 3, 1940.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5113	100.0	12	8.8	71	2391	46.8	24	200.0	262	771	15.0
1	0.5	6	5113	100.0	13	11.0	83	2320	45.4	25	260.0	234	509	9.9
2	0.6	141	5107	99.9	14	15.0	74	2237	43.8	26	340.0	122	275	5.3
3	0.8	524	4966	97.1	15	19.0	94	2163	42.3	27	440.0	63	153	2.9
4	1.1	522	4442	86.9	16	25.0	87	2069	40.5	28	570.0	26	90	1.7
5	1.4	521	3920	76.7	17	32.0	115	1982	38.8	29	740.0	30	64	1.2
6	1.8	457	3399	66.5	18	42.0	153	1867	36.5	30	960.0	12	34	.6
7	2.4	215	2942	57.5	19	55.0	159	1714	33.5	31	1200.0	7	22	.4
8	3.1	129	2727	53.3	20	71.0	146	1555	30.4	32	1600.0	7	15	.2
9	4.0	74	2598	50.8	21	92.0	166	1409	27.6	33	2100.0	8	8	.1
10	5.2	75	2524	49.4	22	120.0	191	1243	24.3	34	2700.0			
11	6.8	58	2449	47.9	23	150.0	281	1052	20.6					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.86	0.69	0.58	0.65	0.61	0.71	1.6	22	34	4.5	1.7	1.7

SOUTH FLORIDA  
CALOOSAHATCHEE RIVER

02292000 CALOOSAHATCHEE CANAL AT MOORE HAVEN, FL

LOCATION.--Lat 26°50'22", long 81°05'15", in NW¼ sec.12, T.42 S., R.32 E., Glades County, Hydrologic Unit 03090205, at hurricane gate structure and lock 1 at Lake Okeechobee outlet, 0.1 mi (0.2 km) west of control structure 77, 0.45 mi (0.72 km) upstream from U.S. Highway 27, and 15 mi (24 km) upstream from lock 2.

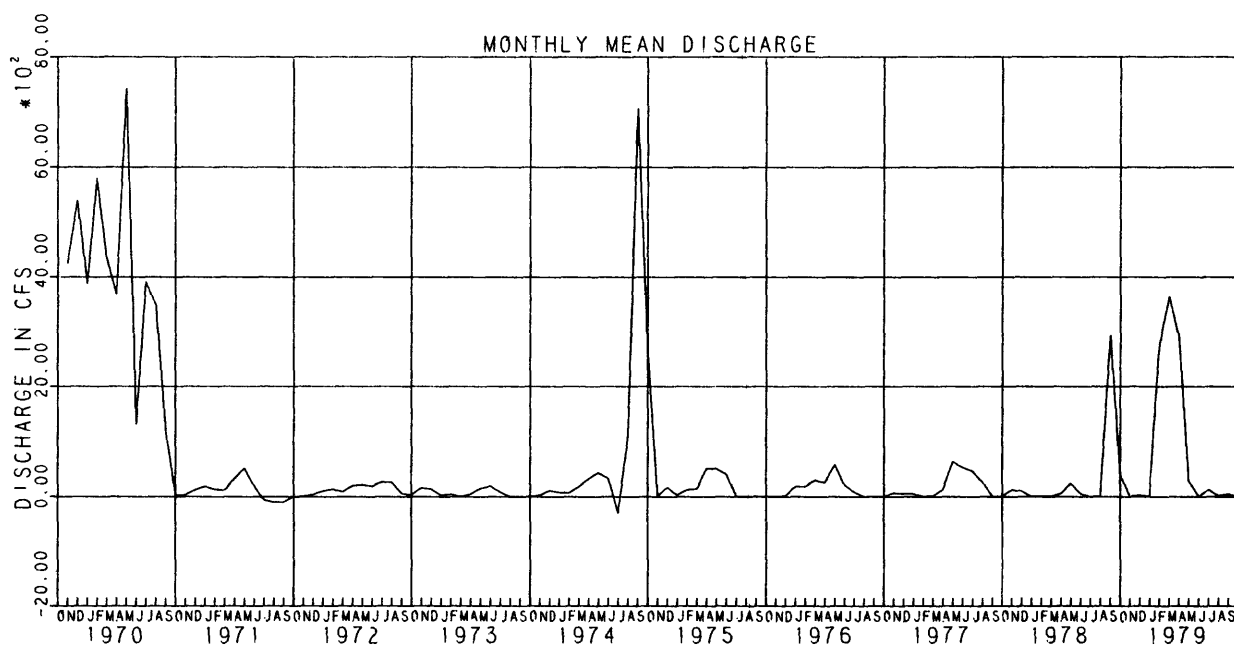
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1938 to September 1979.

REMARKS.--Flow regulated by operation of control structure 77 at Lake Okeechobee. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--41 years, 941 ft<sup>3</sup>/s (26.6 ft<sup>3</sup>/s), 681,300 acre-ft/yr (840 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 8,290 ft<sup>3</sup>/s (235 m<sup>3</sup>/s) Apr. 10, 11, 1970; maximum daily reverse flow, 2,010 ft<sup>3</sup>/s (56.9 m<sup>3</sup>/s) June 26, 1974; lock closed and flow consists of leakage and lockage estimated as 5.0 ft<sup>3</sup>/s (0.142 m<sup>3</sup>/s) during several periods in each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	-2000.0	3	14974	100.0	12	12.0	13	5567	37.2	24	1600.0	401	3682	24.5
1	-1000.0	9	14971	100.0	13	30.0	79	5554	37.1	25	2200.0	372	3281	21.9
2	-500.0	32	14962	99.9	14	80.0	92	5475	36.6	26	2700.0	399	2909	19.4
3	-200.0	23	14930	99.7	15	120.0	169	5383	35.9	27	3000.0	268	2510	16.7
4	-100.0	27	14907	99.6	16	170.0	233	5214	34.8	28	3200.0	248	2242	14.9
5	0.0	25	14880	99.4	17	220.0	230	4981	33.3	29	3400.0	540	1994	13.3
6	1.0	0	14855	99.2	18	270.0	191	4751	31.7	30	3800.0	574	1454	9.7
7	3.0	0	14855	99.2	19	350.0	206	4560	30.5	31	4200.0	634	880	5.8
8	5.0	2611	14855	99.2	20	450.0	167	4354	29.1	32	5300.0	169	246	1.6
9	7.0	0	12244	81.8	21	550.0	233	4187	28.0	33	6600.0	42	77	.5
10	9.0	0	12244	81.8	22	800.0	113	3954	26.4	34	7200.0	35	35	.2
11	10.0	6677	12244	81.8	23	1100.0	159	3841	25.7					

## SOUTH FLORIDA

## CALOOSAHATCHEE RIVER

02292900 CALOOSAHATCHEE RIVER AT S-79, NEAR OLGA, FL

LOCATION.--Lat 26°43'25", long 81°41'55", in SW¼ sec.23, T.43 S., R.26 E., Lee County, Hydrologic Unit 03090205, at salinity-control structure 79, 1 mi (1.6 km) upstream from Telegraph Creek, and 1.2 mi (1.9 km) northeast of Olga.

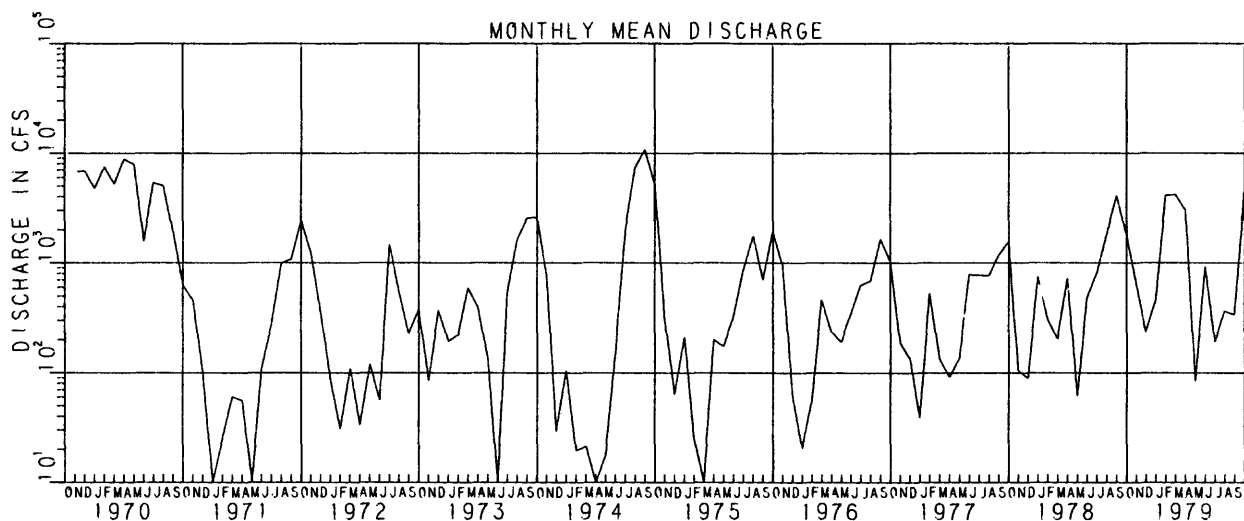
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1966 to September 1979.

REMARKS.--Flow regulated by operation of salinity-control structure 79. No low-flow contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--13 years, 1,374 ft<sup>3</sup>/s (38.9 m<sup>3</sup>/s) 994,700 acre-ft/yr (1.23 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 21,400 ft<sup>3</sup>/s (606 m<sup>3</sup>/s) Mar. 27, 1970; minimum daily discharge, 1.5 ft<sup>3</sup>/s (0.04 m<sup>3</sup>/s) May 24, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	4748	100.0	12	36.0	10	3248	68.4	24	1100.0	204	1359	28.6
1	1.5	3	4748	100.0	13	48.0	32	3238	68.2	25	1500.0	184	1155	24.3
2	2.0	0	4745	99.9	14	63.0	32	3206	67.5	26	2000.0	209	971	20.4
3	2.7	3	4745	99.9	15	85.0	78	3174	66.8	27	2700.0	148	762	16.0
4	3.6	8	4742	99.9	16	110.0	221	3096	65.2	28	3600.0	91	614	12.9
5	4.7	33	4734	99.7	17	150.0	225	2875	60.6	29	4800.0	182	523	11.0
6	6.3	52	4701	99.0	18	200.0	226	2650	55.8	30	6400.0	233	341	7.1
7	8.4	1161	4649	97.9	19	270.0	262	2424	51.1	31	8500.0	72	108	2.2
8	11.0	99	3488	73.5	20	360.0	202	2162	45.5	32	11000.0	30	36	.7
9	15.0	66	3389	71.4	21	480.0	235	1960	41.3	33	15000.0	4	6	.1
10	20.0	35	3323	70.0	22	640.0	189	1725	36.3	34	20000.0	2	2	
11	27.0	40	3288	69.3	23	850.0	177	1536	32.4					

SOUTH FLORIDA  
CALOOSAHATCHEE RIVER

02293000 ORANGE RIVER NEAR FORT MYERS, FL

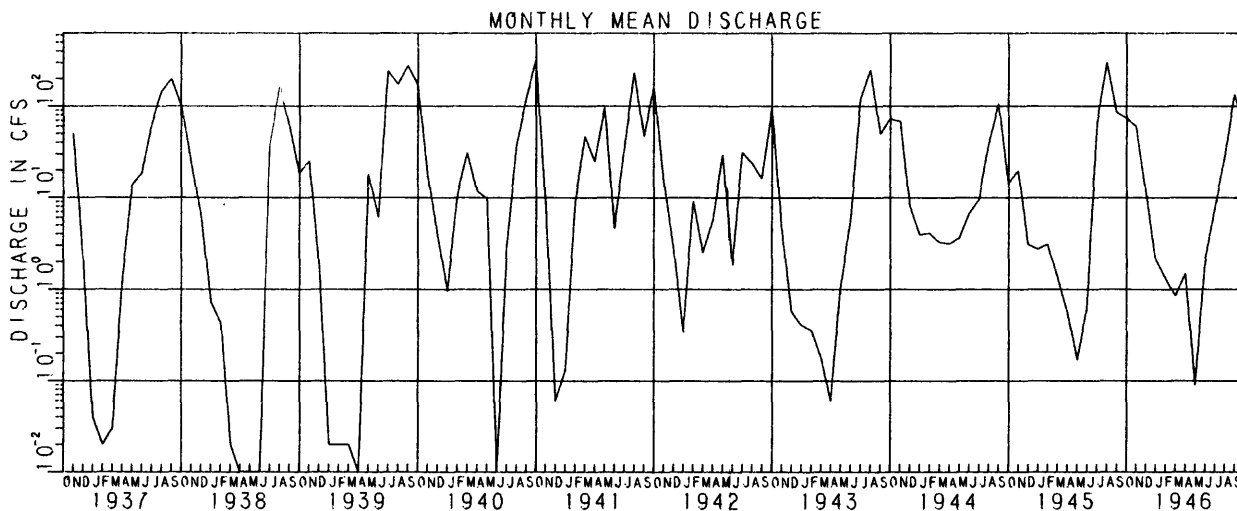
LOCATION.--Lat 26°40'00", long 81°43'00", in sec.9, T.44 S., R.26 E., Lee County, Hydrologic Unit 03090205, 1.5 miles (2.4 km) southeast of Buckingham miles (13 km) northeast of Fort Myers.

DRAINAGE AREA.--83.4 mi<sup>2</sup> (

PERIOD OF RECORD.--November 1935 to October 1946.

AVERAGE DISCHARGE.--10 years, (water years 1937-46) 41.1 ft<sup>3</sup>/s (1.16 m<sup>3</sup>/s), 29,820 acre-ft/yr (36.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,300 ft<sup>3</sup>/s (150 m<sup>3</sup>/s) June 15, 1936; no flow during several periods in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	179	3652	100.00	12	1.0	104	2384	65.28	24	100.0	120	404	11.06
1	0.01	103	3473	95.10	13	1.5	144	2280	62.43	25	150.0	113	284	7.78
2	0.02	213	3370	92.28	14	2.2	250	2136	58.49	26	220.0	69	171	4.68
3	0.03	142	3157	86.45	15	3.2	219	1886	51.64	27	330.0	53	102	2.79
4	0.05	71	3015	82.56	16	4.7	171	1667	45.65	28	480.0	32	49	1.34
5	0.07	43	2944	80.61	17	7.0	142	1496	40.96	29	710.0	11	17	0.47
6	0.10	76	2901	79.44	18	10.0	144	1354	37.08	30	1000.0	6	6	0.16
7	0.15	66	2825	77.35	19	15.0	166	1210	33.13	31	1500.0	0	0	0.00
8	0.22	81	2759	75.55	20	22.0	164	1044	28.59	32	2200.0	0	0	0.00
9	0.32	90	2678	73.33	21	32.0	170	880	24.10	33	3300.0	0	0	0.00
10	0.47	92	2588	70.87	22	48.0	135	710	19.44					
11	0.69	112	2496	68.35	23	70.0	171	575	15.74					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.00	0.00	0.00	0.00	0.00	0.00	1.8	6.8	5.1	0.17	0.03	0.00

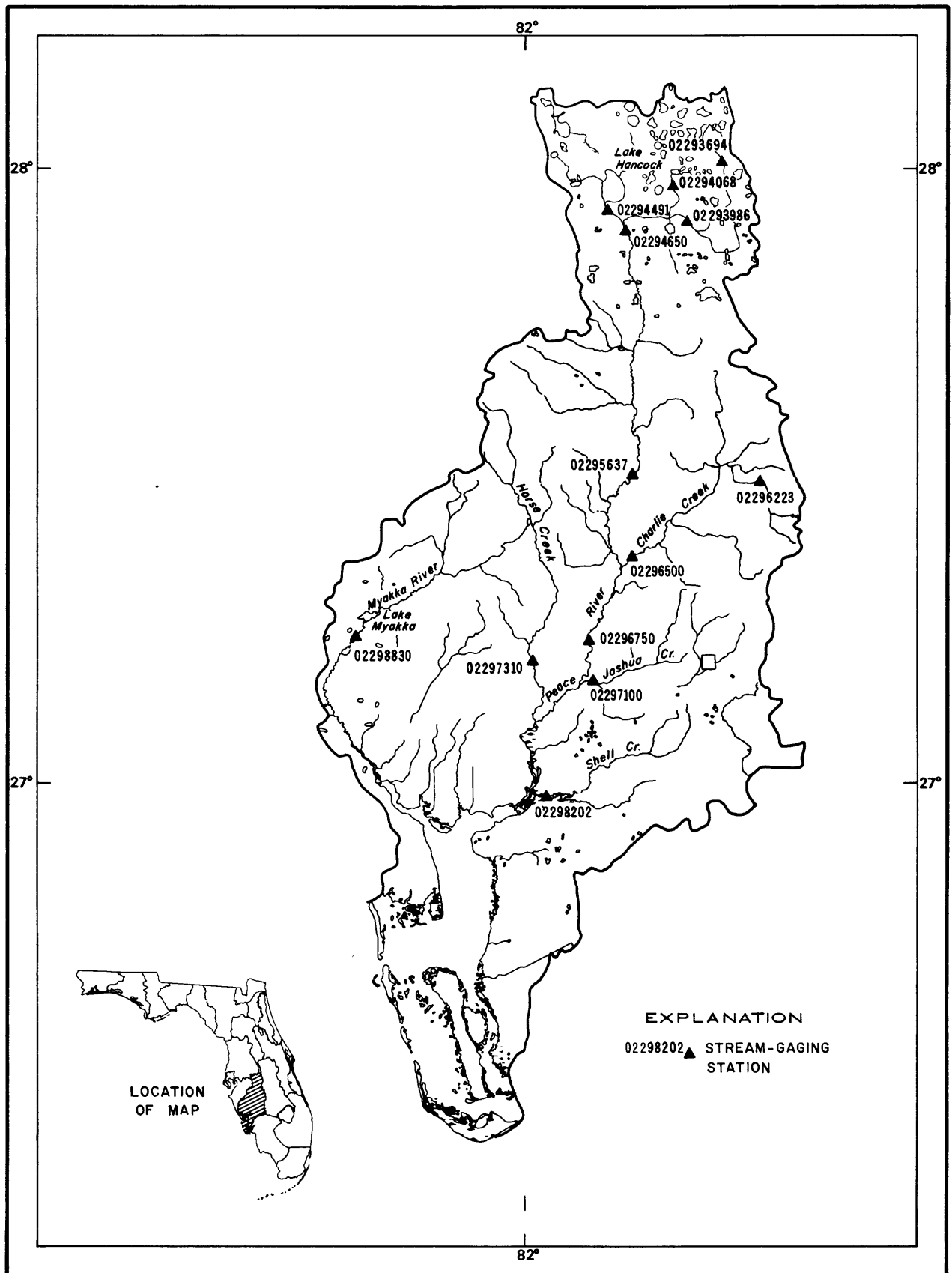


Figure 11.--Stations in the Peace and Myakka River basins.

## PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## PEACE RIVER BASIN

02293694 PEACE CREEK DRAINAGE CANAL NEAR DUNDEE, FL

LOCATION.--Lat 28°01'00", long 81°38'00", in sec.29, T.28 S., R.27 E., on State Highway 542, 1.2 miles (1.9 km) west of Dundee, Polk County, and 1.4 miles (2.2 km) downstream from Lake Hamilton Outlet.

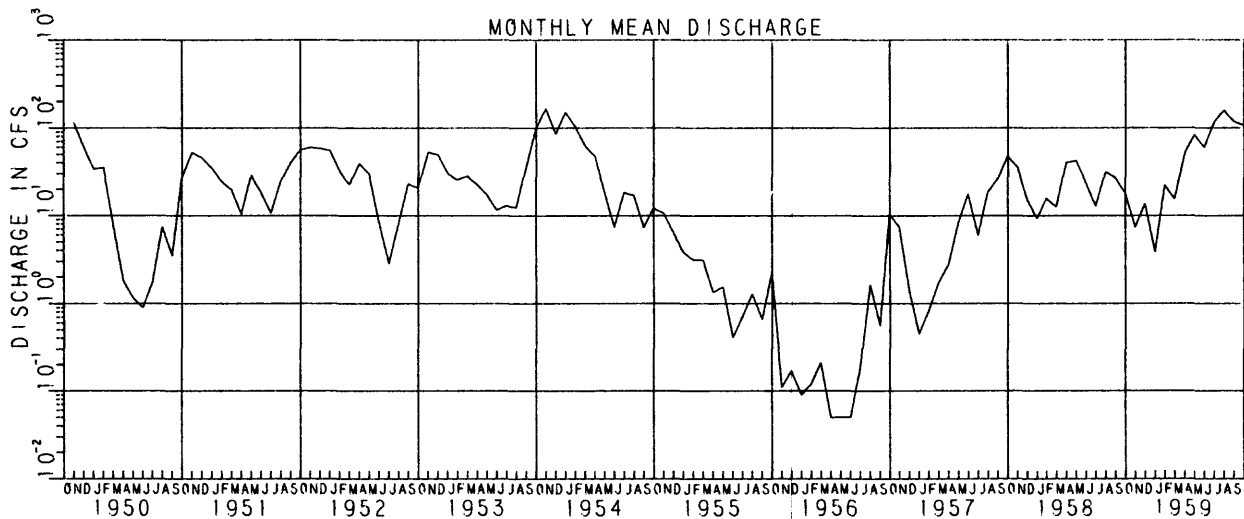
DRAINAGE AREA.--50 mi<sup>2</sup> (130 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--December 1946 to September 1959.

REMARKS.--Slight regulation at low flow by Lake Hamilton. No low-flow data contained in Hughes (1981).

AVERAGE DISCHARGE.--13 years (1946-59), 32.5 ft<sup>3</sup>/s (0.92 m<sup>3</sup>/s), 8.82 in/yr (224 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--1946-59: Maximum discharge, 231 ft<sup>3</sup>/s (6.54 m<sup>3</sup>/s) Sept. 22 1948; no flow at times in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	109	4748	100.0	12	2.6	129	3745	78.9	24	43.0	330	1262	26.5
1	0.1	140	4639	97.7	13	3.3	156	3616	76.2	25	55.0	254	932	19.6
2	0.2	92	4499	94.8	14	4.2	141	3460	72.9	26	69.0	210	678	14.2
3	0.3	44	4407	92.8	15	5.3	151	3319	69.9	27	87.0	161	468	9.8
4	0.4	45	4363	91.9	16	6.7	156	3168	66.7	28	110.0	128	307	6.4
5	0.5	35	4318	90.9	17	8.4	170	3012	63.4	29	140.0	115	179	3.7
6	0.6	107	4283	90.2	18	11.0	116	2842	59.9	30	180.0	57	64	1.3
7	0.8	77	4176	88.0	19	13.0	289	2726	57.4	31	220.0	7	7	.1
8	1.0	91	4099	86.3	20	17.0	242	2437	51.3					
9	1.3	69	4008	84.4	21	21.0	349	2195	46.2					
10	1.6	94	3939	83.0	22	27.0	302	1846	38.9					
11	2.1	100	3845	81.0	23	34.0	282	1544	32.5					

VALUE EXCEEDED \*P\* PERCENT OF TIME

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.23	0.36	0.14	0.08	0.04	0.20	0.69	0.38	1.4	0.81	0.71	0.31

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02293986 PEACE CREEK DRAINAGE CANAL NEAR ALTURAS, FL.

LOCATION.--Lat 27°55'23", long 81°42'28", in NW¼ sec.34, T.29 S., R.26 E., Polk County, Hydrologic Unit 03100101, at highway bridge, 0.6 mile (1.0 km) north of State Highway 60, 3.5 miles (5.6 km) north of Alturas, 8.2 miles (13.2 km) east of Bartow, and 114 miles (183 km) upstream from mouth of Peace River at Charlotte Harbor.

DRAINAGE AREA.--160 mi<sup>2</sup> (414 km<sup>2</sup>).

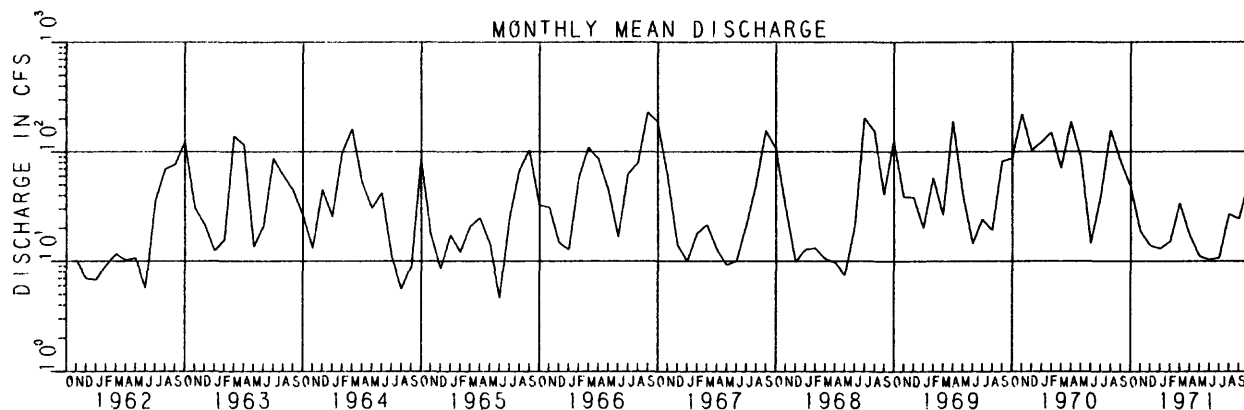
PERIOD OF RECORD.--October 1946 to September 1971.

REMARKS.--No low-flow data contained in Hughes (1981).

AVERAGE DISCHARGE.--25 years (1946-71), 96.7 ft<sup>3</sup>/s (2.74 m<sup>3</sup>/s), 8.21 in/yr (209 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,740 ft<sup>3</sup>/s (49.3 m<sup>3</sup>/s) Aug. 28, 29, 1949; minimum 0.10 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) May 18, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known from information by local residents, 2,540 ft<sup>3</sup>/s (71.9 m<sup>3</sup>/s), in 1928.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	8766	100.0	12	5.7	348	8572	97.8	24	120.0	479	1805	20.5
1	0.3	1	8766	100.0	13	7.4	338	8224	93.8	25	160.0	328	1326	15.1
2	0.4	2	8765	100.0	14	9.5	403	7886	90.0	26	210.0	293	998	11.3
3	0.6	0	8763	100.0	15	12.0	735	7483	85.4	27	270.0	232	705	8.0
4	0.7	0	8763	100.0	16	16.0	633	6748	77.0	28	350.0	165	473	5.3
5	0.9	0	8763	100.0	17	21.0	593	6115	69.8	29	450.0	127	308	3.5
6	1.2	2	8763	100.0	18	27.0	538	5522	63.0	30	580.0	84	181	2.0
7	1.6	6	8761	99.9	19	34.0	681	4984	56.9	31	750.0	46	97	1.1
8	2.0	17	8755	99.9	20	44.0	747	4303	49.1	32	960.0	26	51	.5
9	2.6	20	8738	99.7	21	57.0	684	3556	40.6	33	1200.0	22	25	.2
10	3.4	56	8718	99.5	22	74.0	599	2872	32.8	34	1600.0	3	3	
11	4.4	90	8662	98.8	23	96.0	468	2273	25.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
9.7	8.9	8.1	5.5	3.9	4.8	9.0	9.4	15	8.8	7.2	5.7

## PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## PEACE RIVER BASIN

02294068 LAKE LULU OUTLET AT ELOISE, FL

LOCATION.--Lat 27°59'03", long 81°43'47", in SE¼ sec.5, T.29 S., R.26 E., Polk County, Hydrologic Unit 03100101, at State Highway 540A at intersection with old Rifle Range Road, 2,200 ft (670 m) downstream from control structure at outlet of Lake Lulu and 0.9 mile (1.45 km) southeast of Eloise.

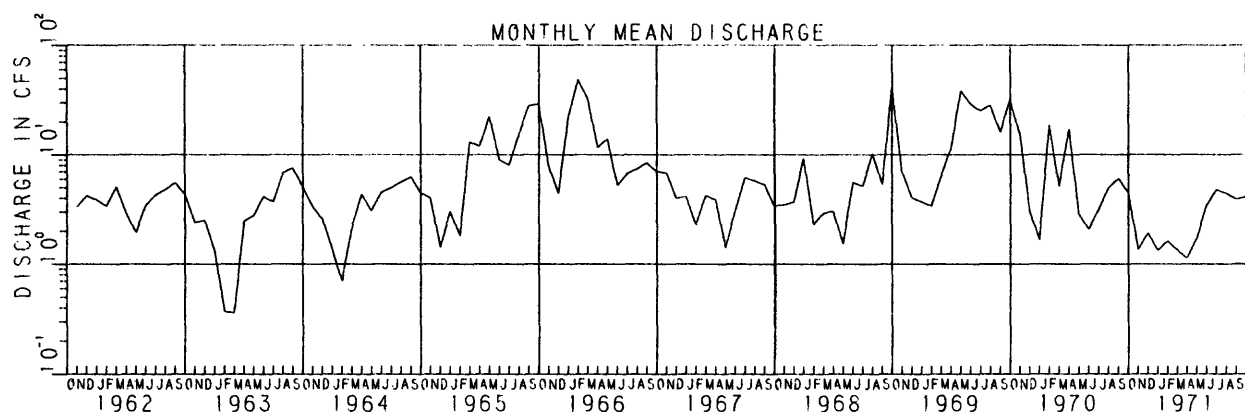
DRAINAGE AREA.--23 mi<sup>2</sup> (60 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--February 1946 to September 1979.

REMARKS.--Records include small amount of waste water diverted by Polk Packing Co., from ground-water supplies during packing season. Some regulation by control structure at outlet of Lake Lulu. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--25 years, 10.7 ft<sup>3</sup>/s (0.30 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 218 ft<sup>3</sup>/s (6.17 m<sup>3</sup>/s) June 21, 1959; no flow at times in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	74	9131	100.0	12	2.3	693	6569	71.9	24	40.0	180	601	6.5
1	0.1	1	9057	99.2	13	2.9	662	5876	64.4	25	50.0	148	421	4.6
2	0.1	36	9056	99.2	14	3.6	1082	5214	57.1	26	64.0	119	273	2.9
3	0.2	40	9020	98.8	15	4.6	937	4132	45.3	27	81.0	62	154	1.6
4	0.3	72	8980	98.3	16	5.9	644	3195	35.0	28	100.0	53	92	1.0
5	0.4	70	8908	97.6	17	7.5	433	2551	27.9	29	130.0	20	39	.4
6	0.5	205	8838	96.8	18	9.5	265	2118	23.2	30	170.0	17	19	.2
7	0.7	264	8633	94.5	19	12.0	267	1853	20.3	31	210.0	2	2	
8	0.9	290	8369	91.7	20	15.0	208	1586	17.4					
9	1.1	413	8079	88.5	21	19.0	279	1378	15.1					
10	1.4	563	7666	84.0	22	25.0	231	1099	12.0					
11	1.8	534	7103	77.8	23	31.0	267	868	9.5					

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

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

LOCATION.--Lat 27°56'17", long 81°51'05", in SW¼ sec.19, T.29 S., R.25 E., Polk County, Hydrologic Unit 03100101, 65 ft (20 m) downstream from structure P-11, 0.7 mi (1.1 km) south of Lake Hancock, 2.3 mi (3.7 km) upstream from mouth, and 3.0 mi (4.8 km) north of post office in Bartow.

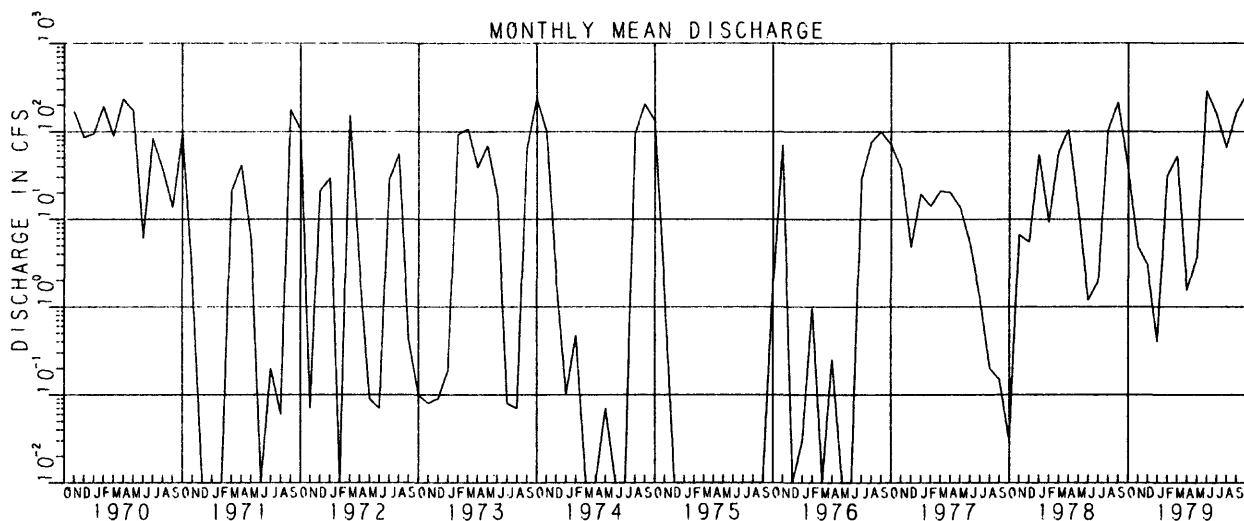
DRAINAGE AREA.--135 mi<sup>2</sup> (350 km<sup>2</sup>).

PERIOD OF RECORD.--November 1963 to September 1979.

REMARKS.--Flow regulated by structure P-11. No low-flow data listed below.

AVERAGE DISCHARGE.--15 years (water years 1965-79), 52.6 ft<sup>3</sup>/s (1.490 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 516 ft<sup>3</sup>/s (14.6 m<sup>3</sup>/s) Aug. 13, 14, 1965; no flow for many days in some years; channel dry at gage May 7-23, 1968, many days 1975.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	1851	5478	100.00	12	0.52	56	2760	50.38	24	27.0	104	1925	35.14
1	0.01	149	3527	66.21	13	0.72	56	2704	49.36	25	37.0	177	1821	33.24
2	0.02	33	3478	63.49	14	0.99	65	2648	48.34	26	51.0	254	1644	30.01
3	0.03	51	3445	62.19	15	1.4	44	2583	47.15	27	71.0	209	1390	25.37
4	0.04	24	3394	61.96	16	1.9	53	2539	46.35	28	99.0	311	1181	21.56
5	0.05	67	3370	61.52	17	2.7	72	2486	45.38	29	140.0	234	870	15.88
6	0.07	187	3303	60.30	18	3.7	60	2414	44.07	30	190.0	423	636	11.61
7	0.10	130	3116	56.58	19	5.1	74	2354	42.97	31	260.0	178	213	3.89
8	0.14	46	2986	54.51	20	7.1	82	2280	41.62	32	370.0	32	35	0.64
9	0.19	45	2940	53.67	21	9.9	63	2198	40.12	33	510.0	3	3	0.05
10	0.27	35	2855	52.12	22	14.0	68	2135	38.97					
11	0.37	60	2820	51.48	23	19.0	142	2067	37.73					

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02294650 PEACE RIVER AT BARTOW, FL

LOCATION.--Lat 27°54'07", long 81°49'03", in NE¼ sec.4, T.30 S., R.25 E., Polk County, Hydrologic Unit 03100101, at bridge on State Highway 60, 500 ft (150 m) downstream from McKinney Branch, 0.6 mi (1.0 km) east of Bartow, and 105 mi (169 km) upstream from mouth.

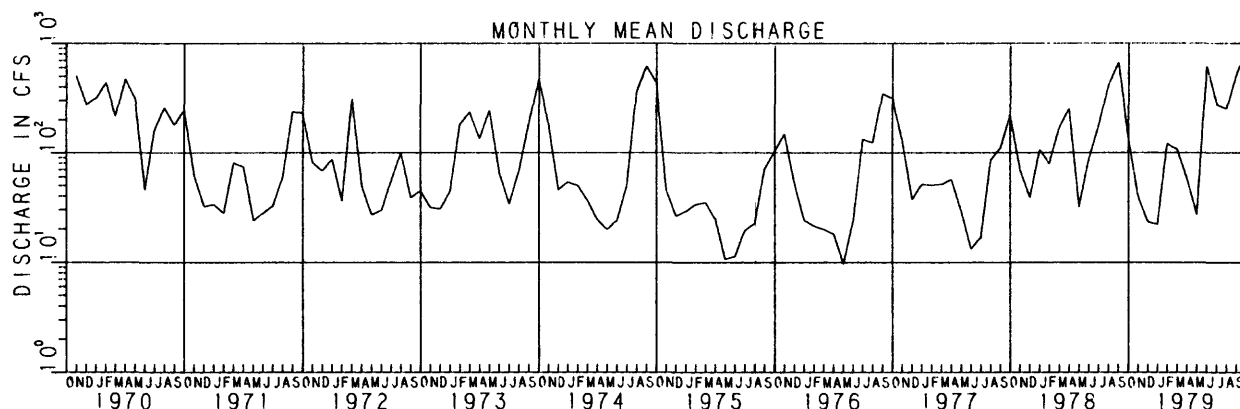
DRAINAGE AREA.--390 mi<sup>2</sup> (1010 km<sup>2</sup>).

PERIOD OF RECORD.--October 1939 to September 1979.

REMARKS.--Since 1949, records include an appreciable amount of waste water diverted from ground-water supplies into McKinney Branch by chemical plants and phosphate mines; since July 1963, some regulation by control structure P-11 on Saddle Creek. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--40 years, 254 ft<sup>3</sup>/s (7.193 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,140 ft<sup>3</sup>/s (117 m<sup>3</sup>/s) Sept. 24, 1947; minimum 1.1 ft<sup>3</sup>/s (0.031 m<sup>3</sup>/s) Apr. 27, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14610	100.0	12	18.0	326	14132	96.7	24	330.0	841	3397	23.2
1	1.1	2	14610	100.0	13	22.0	673	13806	94.5	25	420.0	647	2556	17.4
2	1.5	6	14608	100.0	14	29.0	800	13133	89.9	26	530.0	657	1909	13.0
3	2.0	4	14602	99.9	15	37.0	864	12333	84.4	27	680.0	523	1252	8.5
4	2.5	2	14598	99.9	16	47.0	883	11469	78.5	28	870.0	271	729	4.9
5	3.2	5	14596	99.9	17	59.0	902	10586	72.5	29	1100.0	196	458	3.1
6	4.1	8	14591	99.9	18	76.0	990	9684	66.3	30	1400.0	145	262	1.7
7	5.2	23	14583	99.8	19	97.0	960	8694	59.5	31	1800.0	64	117	.8
8	6.6	55	14560	99.7	20	120.0	1155	7734	52.9	32	2300.0	31	53	.3
9	8.4	51	14505	99.3	21	160.0	969	6579	45.0	33	2900.0	21	22	.1
10	11.0	96	14454	98.9	22	200.0	1173	5610	38.4	34	3800.0	1	1	
11	14.0	226	14358	98.3	23	260.0	1040	4437	30.4					

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02295637 PEACE RIVER AT ZOLFO SPRINGS, FL

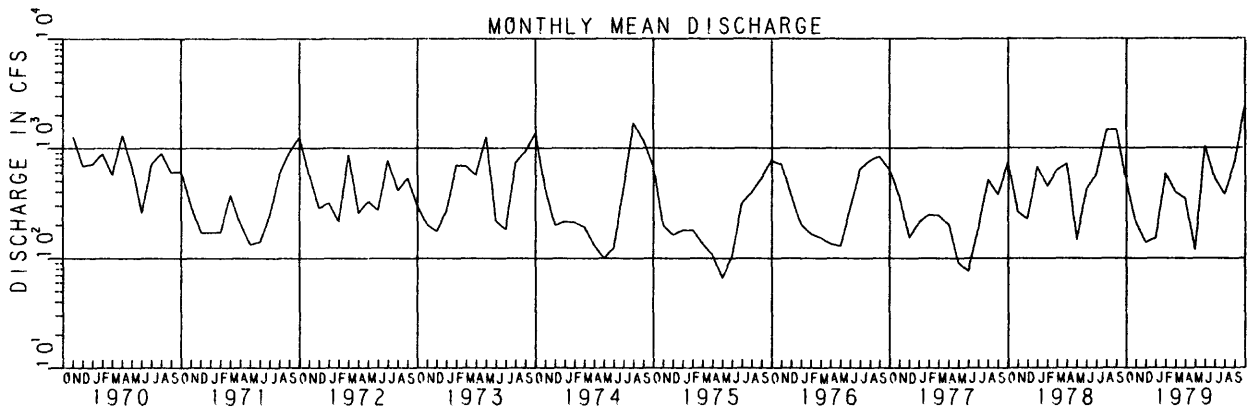
LOCATION.--Lat 27°30'15", long 81°48'04", in SE¼ sec.22, T.34 S., R.25 E., Hardee County, Hydrologic Unit 03100101, at bridge on U.S. Highway 17, 0.8 mi (1.3 km) north of Zolfo Springs, and 69 mi (111 km) upstream from mouth.

DRAINAGE AREA.--826 mi<sup>2</sup> (2,139 km<sup>2</sup>).

PERIOD OF RECORD.--September 1933 to September 1979.

AVERAGE DISCHARGE.--46 years, 684 ft<sup>3</sup>/s (19.37 m<sup>3</sup>/s), 11.24 in/yr (286 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,300 ft<sup>3</sup>/s (745 m<sup>3</sup>/s) Sept. 6, 1933; minimum, 22 ft<sup>3</sup>/s (0.62 m<sup>3</sup>/s) May 24, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	16801	100.0	12	280.0	1224	10068	59.9	24	3100.0	144	449	2.6
1	31.0	4	16801	100.0	13	340.0	1334	8844	52.6	25	3700.0	119	305	1.8
2	38.0	16	16797	100.0	14	420.0	1093	7510	44.7	26	4600.0	70	186	1.1
3	46.0	49	16781	99.9	15	510.0	1072	6417	38.2	27	5600.0	46	116	.6
4	56.0	147	16732	99.6	16	620.0	1042	5345	31.8	28	6800.0	33	70	.4
5	69.0	267	16585	98.7	17	760.0	907	4303	25.6	29	8300.0	22	37	.2
6	84.0	411	16318	97.1	18	920.0	668	3396	20.2	30	10000.0	9	15	
7	100.0	891	15907	94.7	19	1100.0	766	2728	16.2	31	12000.0	3	6	
8	130.0	751	15016	89.4	20	1400.0	506	1962	11.7	32	15000.0	2	3	
9	150.0	1557	14265	84.9	21	1700.0	453	1456	8.7	33	18000.0	1	1	
10	190.0	1411	12708	75.6	22	2100.0	297	1003	6.0	34	23000.0			
11	230.0	1229	11297	67.2	23	2500.0	257	706	4.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
132	122	92	64	58	77	167	220	262	137	117	122

## PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## PEACE RIVER BASIN

02296223 LITTLE CHARLEY BOWLEGS CREEK NEAR SEBRING, FL

LOCATION.--Lat 27°28'40", long 81°33'25", in NW¼ sec.31, T.34 S., R.28 E., Highlands County, Hydrologic Unit 03100101, 160 ft (50 m) downstream from control structure, 900 ft (275 m) north of county road in Highlands Hammock State Park, 0.8 mi (1.3 km) upstream from unnamed creek, 7.1 mi (11.4 km) southwest of Sebring, and 7.3 mi (11.7 km) upstream from mouth.

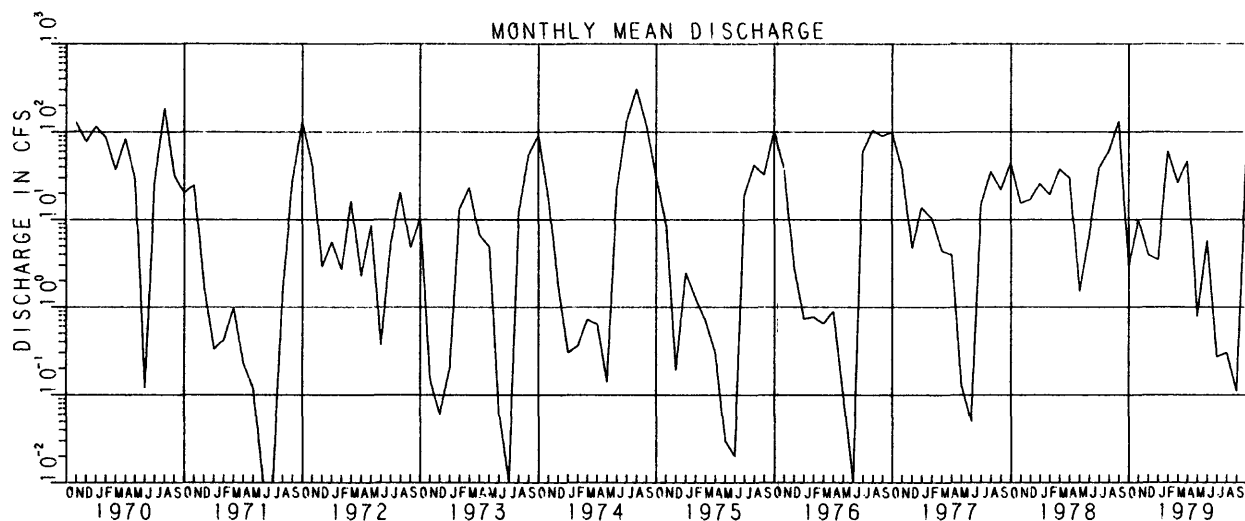
DRAINAGE AREA.--41.9 mi<sup>2</sup> (108.5 km<sup>2</sup>).

PERIOD OF RECORD.--January 1952 to September 1979.

REMARKS.--Flow affected for short periods by operation of control structure 160 ft (50 m) upstream from station.

AVERAGE DISCHARGE.--27 years, 36.9 ft<sup>3</sup>/s (1.045 m<sup>3</sup>/s), 11.96 in/yr (304 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 874 ft<sup>3</sup>/s (24.8 m<sup>3</sup>/s) Sept. 27, 1960; no flow for many days in some years; creek dry at gage June 15-30, 1971.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	355	9861	100.00	12	0.05	384	7819	79.29	24	34.0	628	2830	28.70
1	0.01	30	9506	96.40	13	0.08	238	7435	75.40	25	47.0	636	2202	22.33
2	0.02	13	9476	96.10	14	1.2	218	7197	72.98	26	67.0	517	1566	15.88
3	0.03	14	9463	95.96	15	1.6	337	6979	70.77	27	93.0	387	1049	10.64
4	0.04	36	9449	95.82	16	2.3	342	6642	67.36	28	130.0	218	662	6.71
5	0.05	100	9413	95.46	17	3.2	340	6300	63.89	29	180.0	211	444	4.50
6	0.08	201	9313	94.44	18	4.4	435	5960	60.44	30	260.0	128	233	2.36
7	0.11	135	9112	92.40	19	6.2	413	5525	56.03	31	360.0	68	105	1.06
8	0.15	330	8977	91.04	20	8.7	374	5112	51.84	32	510.0	35	37	0.38
9	0.21	187	8647	87.69	21	12.0	549	4738	48.05	33	710.0	2	2	0.02
10	0.30	449	8460	85.79	22	17.0	655	4189	42.48					
11	0.41	192	8011	81.24	23	24.0	704	3534	35.84					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.26	0.30	0.10	0.00	0.00	0.00	0.52	0.89	1.5	0.34	0.15	0.14

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02296500 CHARLIE CREEK NEAR GARDNER, FL

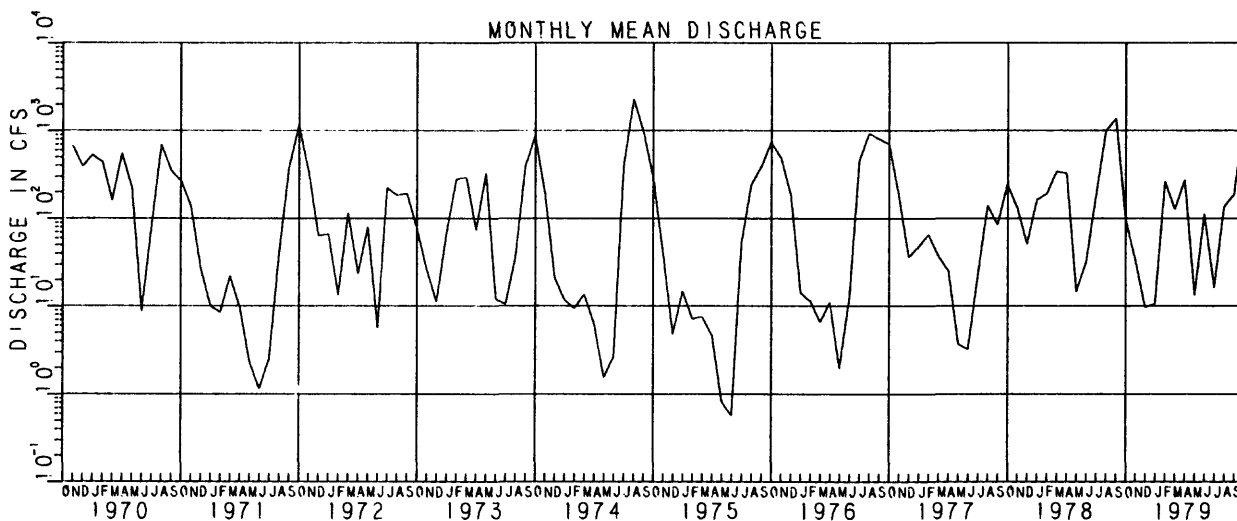
LOCATION.--Lat 27°22'29", long 81°47'48", in SE¼ sec.3, T.36 S., R.25 E., Hardee County, Hydrologic Unit 03100101, at bridge on U.S. Highway 17, 1.6 mi (2.6 km) north of Gardner, and 4.9 mi (7.9 km) upstream from mouth.

DRAINAGE AREA.--330 mi<sup>2</sup> (855 km<sup>2</sup>).

PERIOD OF RECORD.--April 1950 to September 1979.

AVERAGE DISCHARGE.--29 years, 286 ft<sup>3</sup>/s (8.10 m<sup>3</sup>/s), 11.77 in/yr (299 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,160 ft<sup>3</sup>/s (231 m<sup>3</sup>/s) Aug. 1, 1960; minimum 0.13 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) May 27, 1975.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	10592	100.0	12	6.1	567	9445	89.2	24	290.0	534	2727	25.7
1	0.1	2	10592	100.0	13	8.4	507	8878	83.8	25	390.0	524	2193	20.7
2	0.2	9	10590	100.0	14	12.0	451	8371	79.0	26	540.0	491	1669	15.7
3	0.3	17	10581	99.9	15	16.0	486	7920	74.8	27	750.0	353	1178	11.1
4	0.5	18	10564	99.7	16	22.0	487	7434	70.2	28	1000.0	372	825	7.7
5	0.6	84	10546	99.6	17	30.0	591	6947	65.6	29	1400.0	250	453	4.2
6	0.9	65	10462	98.8	18	42.0	576	6356	60.0	30	2000.0	104	203	1.9
7	1.2	73	10397	98.2	19	58.0	557	5780	54.6	31	2700.0	58	99	.9
8	1.7	120	10324	97.5	20	79.0	604	5223	49.3	32	3700.0	28	41	.3
9	2.3	113	10204	96.3	21	110.0	589	4619	43.6	33	5100.0	12	13	.1
10	3.2	236	10091	95.3	22	150.0	655	4030	38.0	34	7100.0	1	1	
11	4.4	410	9855	93.0	23	210.0	648	3375	31.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
5.9	5.5	2.6	1.0	0.77	1.6	16	13	39	13	6.0	6.0

## PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## PEACE RIVER BASIN

02296750 PEACE RIVER AT ARCADIA, FL

LOCATION.--Lat 27°13'19", long 81°52'34", in SE¼ sec.26, T.37 S., R.24 E., De Soto County, Hydrologic Unit 03100101, 500 ft (150 m) upstream from bridge on State Highway 70, 1.0 mi (1.6 km) west of post office in Arcadia, 6.1 mi (9.8 km) upstream from Joshua Creek, and 36 mi (58 km) upstream from mouth.

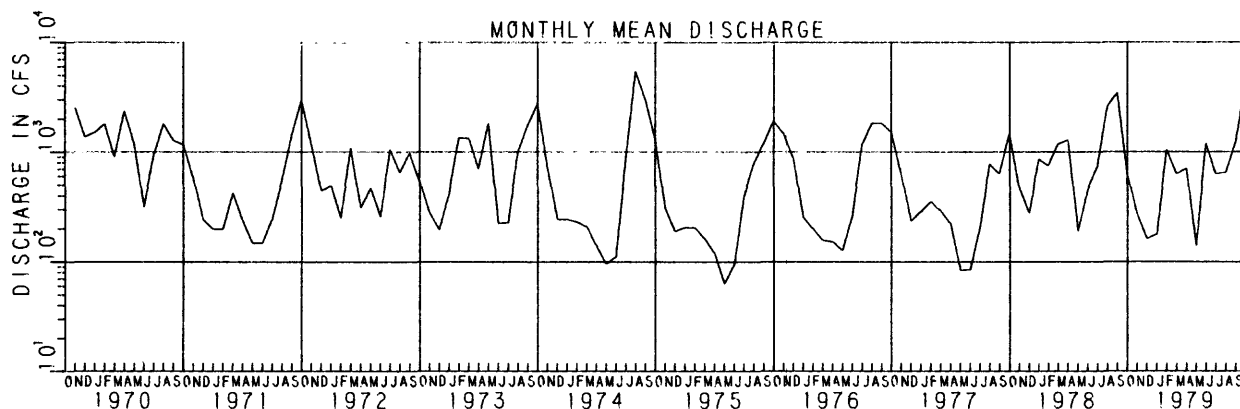
DRAINAGE AREA.--1,367 mi<sup>2</sup> (3,541 km<sup>2</sup>).

PERIOD OF RECORD.--April 1931 to September 1979.

AVERAGE DISCHARGE.--48 years, 1,164 ft<sup>3</sup>/s (32.96 m<sup>3</sup>/s), 11.56 in/yr (294 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,200 ft<sup>3</sup>/s (1,030 m<sup>3</sup>/s) Sept. 9, 1933; minimum, 37 ft<sup>3</sup>/s (1.05 m<sup>3</sup>/s) May 28, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 43,000 ft<sup>3</sup>/s (1,200 m<sup>3</sup>/s), in 1912, from information by county engineer.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17532	100.0	12	360.0	891	10419	59.4	24	4000.0	328	1072	6.1
1	39.0	22	17532	100.0	13	430.0	1051	9528	54.3	25	4800.0	263	744	4.2
2	48.0	66	17510	99.9	14	530.0	892	8477	48.4	26	5900.0	180	481	2.7
3	58.0	154	17444	99.5	15	650.0	884	7585	43.3	27	7200.0	98	301	1.7
4	71.0	286	17290	98.6	16	790.0	923	6701	38.2	28	8800.0	123	203	1.1
5	87.0	596	17004	97.0	17	970.0	973	5778	33.0	29	11000.0	39	80	.4
6	110.0	558	16408	93.6	18	1200.0	617	4805	27.4	30	13000.0	21	41	.2
7	130.0	802	15850	90.4	19	1400.0	974	4188	23.9	31	16000.0	9	20	.1
8	160.0	876	15048	85.8	20	1800.0	665	3214	18.3	32	20000.0	6	11	
9	190.0	1552	14172	80.8	21	2200.0	509	2549	14.5	33	24000.0	4	5	
10	240.0	1080	12620	72.0	22	2600.0	503	2040	11.6	34	30000.0	1	1	
11	290.0	1121	11540	65.8	23	3200.0	465	1537	8.8					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
136	127	95	63	57	87	216	296	398	183	129	127

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02297100 JOSHUA CREEK AT NOCATEE, FL

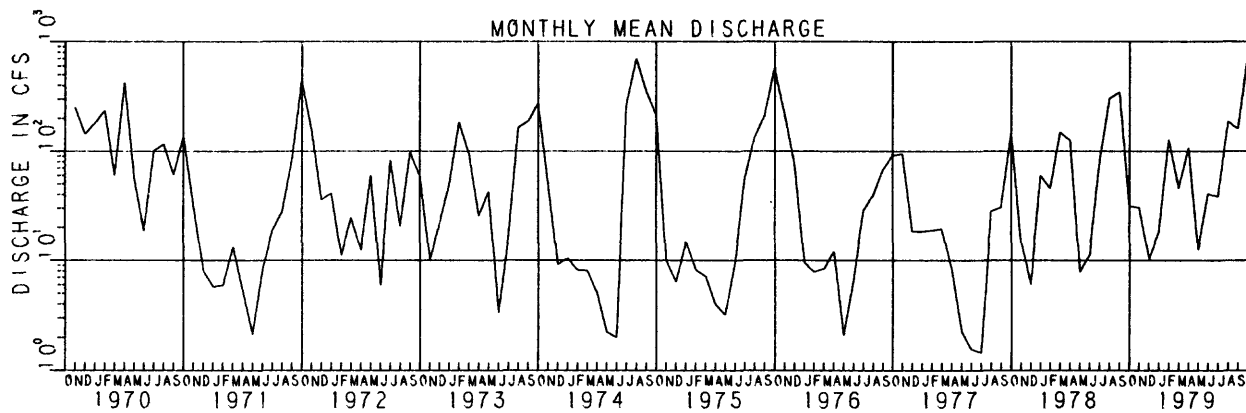
LOCATION.--Lat 27°09'59", long 81°52'47", in SE¼ sec.14, T.38 S., R.24 E., De Soto County, Hydrologic Unit 03100101, at U. S. Highway 17, 0.5 mi (0.8 km) north of Nocatee, and 2.2 mi (3.5 km) upstream from mouth.

DRAINAGE AREA.--132 mi<sup>2</sup> (342 km<sup>2</sup>).

PERIOD OF RECORD.--April 1950 to September 1979.

AVERAGE DISCHARGE.--29 years, 107 ft<sup>3</sup>/s (3.030 m<sup>3</sup>/s), 11.01 in/yr (280 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,670 ft<sup>3</sup>/s (246 m<sup>3</sup>/s) Oct. 10, 1953; no flow Nov. 18-20, 22-24, 1953, May 3-12, 14, 15, 1959.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	18	10592	100.0	12	5.7	862	8312	78.5	24	330.0	320	932	8.7
1	0.1	3	10574	99.8	13	8.0	821	7450	70.3	25	460.0	257	612	5.7
2	0.2	18	10571	99.8	14	11.0	949	6629	62.6	26	650.0	172	355	3.3
3	0.3	21	10553	99.6	15	16.0	723	5680	53.6	27	910.0	92	183	1.7
4	0.4	36	10532	99.4	16	22.0	685	4957	46.8	28	1300.0	40	91	.8
5	0.5	144	10496	99.1	17	31.0	604	4272	40.3	29	1800.0	31	51	.4
6	0.8	170	10352	97.7	18	43.0	569	3668	34.6	30	2500.0	11	20	.1
7	1.1	214	10182	96.1	19	61.0	494	3099	29.3	31	3500.0	6	9	
8	1.5	228	9968	94.1	20	85.0	483	2605	24.6	32	4900.0	1	3	
9	2.1	351	9740	92.0	21	120.0	465	2122	20.0	33	6900.0	2	2	
10	2.9	499	9389	88.6	22	170.0	416	1657	15.6					
11	4.1	578	8890	83.9	23	240.0	309	1241	11.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2.9	3.3	1.8	0.87	0.46	0.63	3.7	4.1	13	5.2	2.7	3.4

## PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## PEACE RIVER BASIN

02297310 HORSE CREEK NEAR ARCADIA, FL

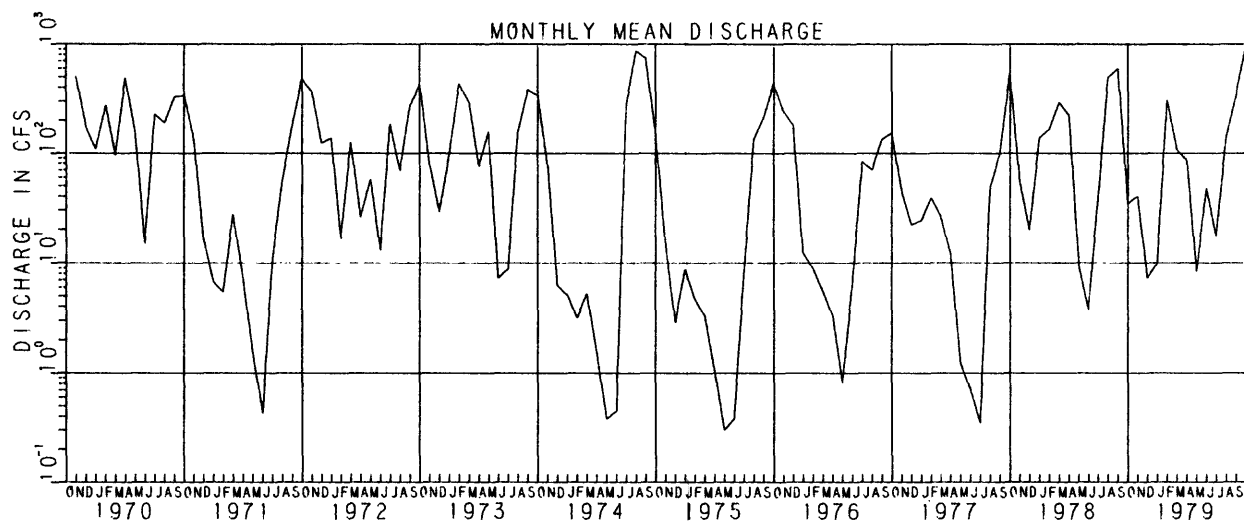
LOCATION.--Lat 27°11'57", long 81°59'19", in NW¼ sec.2, T.38 S., R.23 E., De Soto County, Hydrologic Unit 03100101, at bridge on State Highway 72, 7.9 mi (12.7 km) west of Arcadia, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--218 mi<sup>2</sup> (565 km<sup>2</sup>).

PERIOD OF RECORD.--April 1950 to September 1979.

AVERAGE DISCHARGE.--29 years, 197 ft<sup>3</sup>/s (5.579 m<sup>3</sup>/s), 12.27 in/yr (312 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft<sup>3</sup>/s (331 m<sup>3</sup>/s) Aug. 1, 1960; no flow June 7-9, 15, 25-30, July 2, Aug. 7, 1956, Feb. 16-18, 1957, May 2-6, 1975.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	15	10592	100.00	12	1.4	198	9860	93.09	24	200.0	745	2696	25.45
1	0.01	3	10577	99.86	13	2.1	373	9662	91.22	25	300.0	702	1951	18.42
2	0.02	4	10574	99.83	14	3.2	555	9289	87.70	26	460.0	502	1249	11.79
3	0.03	3	10570	99.79	15	4.9	610	8734	82.46	27	690.0	329	747	7.05
4	0.05	15	10567	99.76	16	7.4	464	8124	76.70	28	1000.0	266	414	3.95
5	0.08	48	10552	99.62	17	11.0	625	7660	72.32	29	1600.0	91	152	1.44
6	0.12	24	10504	99.17	18	17.0	617	7035	66.42	30	2400.0	35	61	0.58
7	0.18	87	10480	98.94	19	25.0	715	6418	60.59	31	3600.0	18	26	0.25
8	0.27	126	10393	98.12	20	38.0	747	5703	53.84	32	5400.0	6	8	0.08
9	0.41	109	10267	96.93	21	58.0	757	4956	46.79	33	8200.0	2	2	0.02
10	0.62	131	10158	95.96	22	88.0	690	4199	39.64					
11	0.94	167	10027	94.67	23	130.0	813	3509	33.13					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	
2.0	2.0	1.2	0.35	0.13	0.25	4.5	14	32	7.5	3.5	I

## PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## PEACE RIVER BASIN

02298202 SHELL CREEK NEAR PUNTA GORDA, FL

LOCATION.--Lat 26°59'04", long 81°56'09", in NW¼ sec.20, T.40 S., R.24 E., Charlotte County, Hydrologic Unit 03100101, 60 ft (18 m) upstream from dam, 1.0 mi (1.6 km) upstream from Myrtle Slough, 6.0 mi (9.6 km) upstream from mouth, and 7.7 mi (12.4 km) northeast of Punta Gorda.

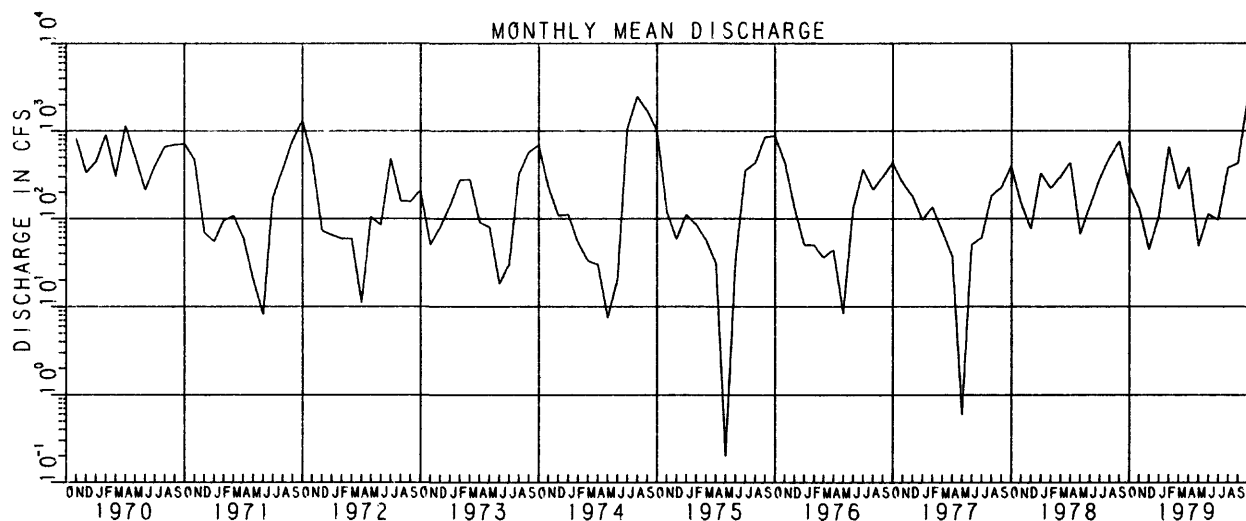
DRAINAGE AREA.--373 mi<sup>2</sup> (966 km<sup>2</sup>).

PERIOD OF RECORD.--January 1965 to September 1979.

REMARKS.--Flow regulated by concrete dam.

AVERAGE DISCHARGE.--14 years, 329 ft<sup>3</sup>/s (9.317 m<sup>3</sup>/s), 11.98 in/yr (304 mm/yr), adjusted for diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,110 ft<sup>3</sup>/s (173 m<sup>3</sup>/s) June 28, 1974; no flow at times most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	252	5113	100.0	12	5.3	38	4770	93.3	24	290.0	417	1603	31.3
1	0.1	3	4861	95.1	13	7.4	36	4732	92.5	25	400.0	335	1186	23.1
2	0.2	1	4858	95.0	14	10.0	82	4696	91.8	26	550.0	254	851	16.6
3	0.3	4	4857	95.0	15	14.0	120	4614	90.2	27	770.0	256	597	11.6
4	0.4	0	4853	94.9	16	20.0	148	4494	87.9	28	1100.0	146	341	6.6
5	0.5	1	4853	94.9	17	28.0	216	4346	85.0	29	1500.0	104	195	3.8
6	0.7	1	4852	94.9	18	39.0	326	4130	80.8	30	2100.0	53	91	1.7
7	1.0	2	4851	94.9	19	54.0	438	3804	74.4	31	2900.0	26	38	.7
8	1.4	12	4849	94.8	20	76.0	486	3366	65.8	32	4100.0	11	12	.2
9	2.0	16	4837	94.6	21	110.0	430	2880	56.3	33	5700.0	1	1	
10	2.7	11	4821	94.3	22	150.0	391	2450	47.9					
11	3.8	40	4810	94.1	23	200.0	456	2059	40.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
12	9.9	0.00	0.00	0.00	0.00	39	84	117	41	28	31

## PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## MYAKKA RIVER BASIN

02298830 MYAKKA RIVER NEAR SARASOTA, FL

LOCATION.--Lat 27°14'25", long 82°18'50", in SW¼ sec.21, T.37 S., R.20 E., Sarasota County, Hydrologic Unit 03100102, 0.5 mi (0.8 km) upstream from bridge on State Highway 72, 1.9 mi (3.1 km) upstream from Lower Myakka Lake, 14 mi (23 km) southeast of Sarasota, and 36 mi (58 km) upstream from mouth.

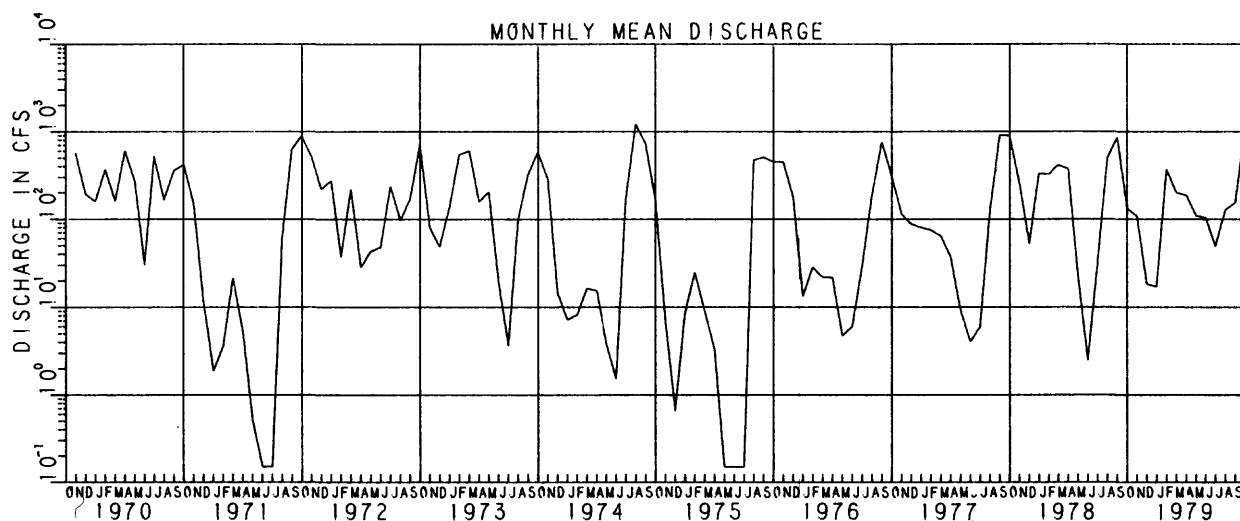
DRAINAGE AREA.--229 mi<sup>2</sup> (593 km<sup>2</sup>).

PERIOD OF RECORD.--August 1936 to September 1979.

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

AVERAGE DISCHARGE.--43 years, 252 ft<sup>3</sup>/s (7.137 m<sup>3</sup>/s), 14.94 in/yr (379 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,670 ft<sup>3</sup>/s (246 m<sup>3</sup>/s) Aug. 1, 1960; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	1579	15705	100.00	12	1.4	353	13216	84.15	24	200.0	1159	4791	30.51
1	0.01	5	14126	89.95	13	2.2	408	12863	81.90	25	310.0	1028	3632	23.13
2	0.02	7	14121	89.91	14	3.3	435	12455	79.31	26	460.0	947	2604	16.58
3	0.04	1	14114	89.87	15	4.9	493	12020	76.54	27	700.0	759	1617	10.30
4	0.05	7	14113	89.86	16	7.4	472	11527	73.40	28	1100.0	481	858	5.46
5	0.08	163	14106	89.82	17	11.0	658	11055	70.39	29	1600.0	245	377	2.40
6	0.12	10	13943	88.78	18	17.0	657	10397	66.20	30	2400.0	93	132	0.84
7	0.18	102	13933	88.72	19	26.0	811	9740	62.02	31	3700.0	22	39	0.25
8	0.27	167	13831	88.07	20	39.0	897	8929	56.85	32	5500.0	16	17	0.11
9	0.41	99	13664	87.00	21	59.0	1011	8032	51.14	33	8400.0	1	1	0.01
10	0.62	152	13565	86.37	22	89.0	1045	7021	44.71					
11	0.94	197	13413	85.41	23	130.0	1185	5976	38.05					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.40	0.03	0.00	0.00	0.00	0.00	0.64	50	64	13	1.4	0.45

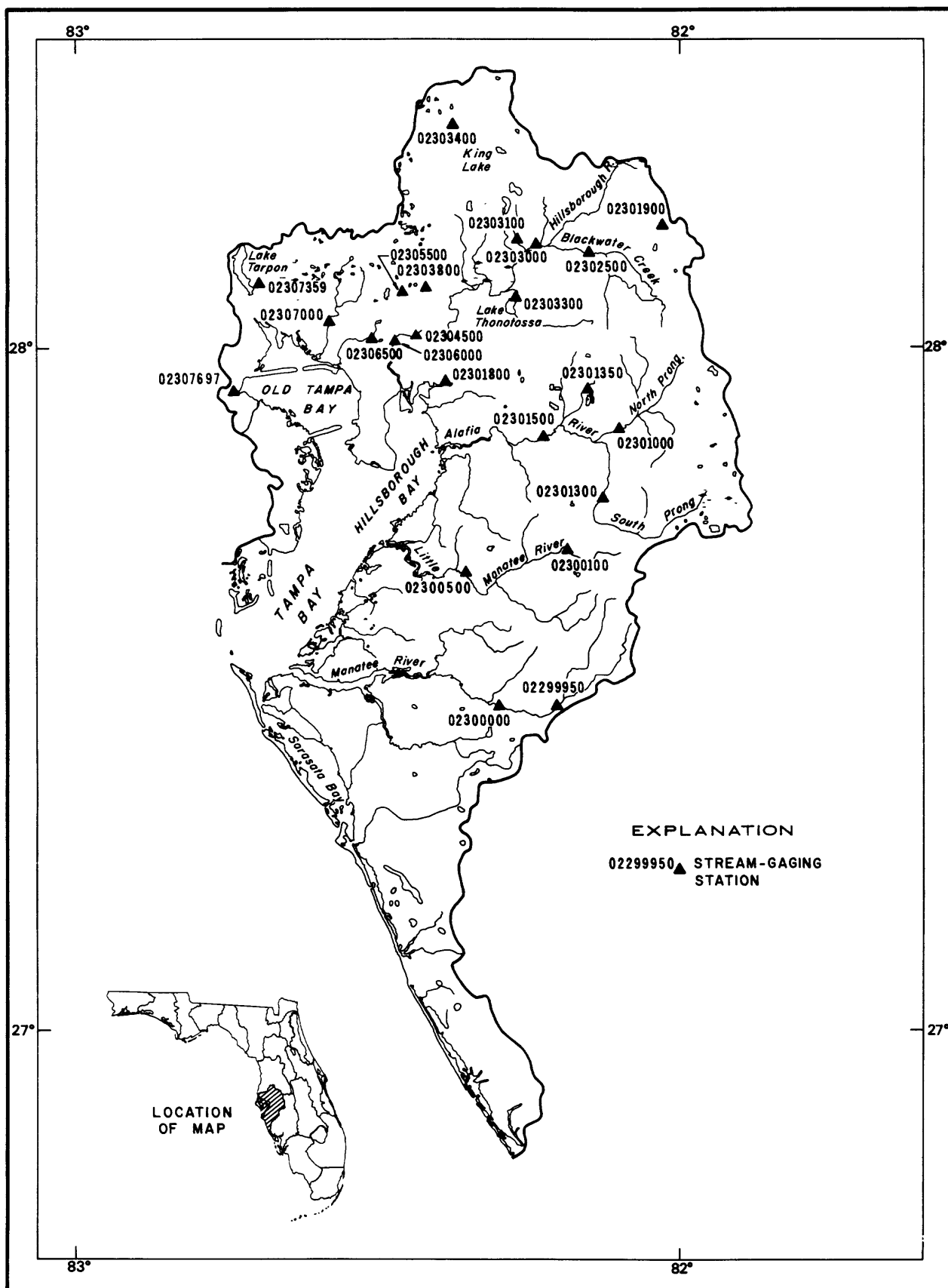


Figure 12.-- Stations in the Manatee, Little Manatee, Alafia and Hillsborough River basins, Tampa Bay and coastal areas.

## PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## MANATEE RIVER BASIN

02299950 MANATEE RIVER NEAR MYAKKA HEAD, FL

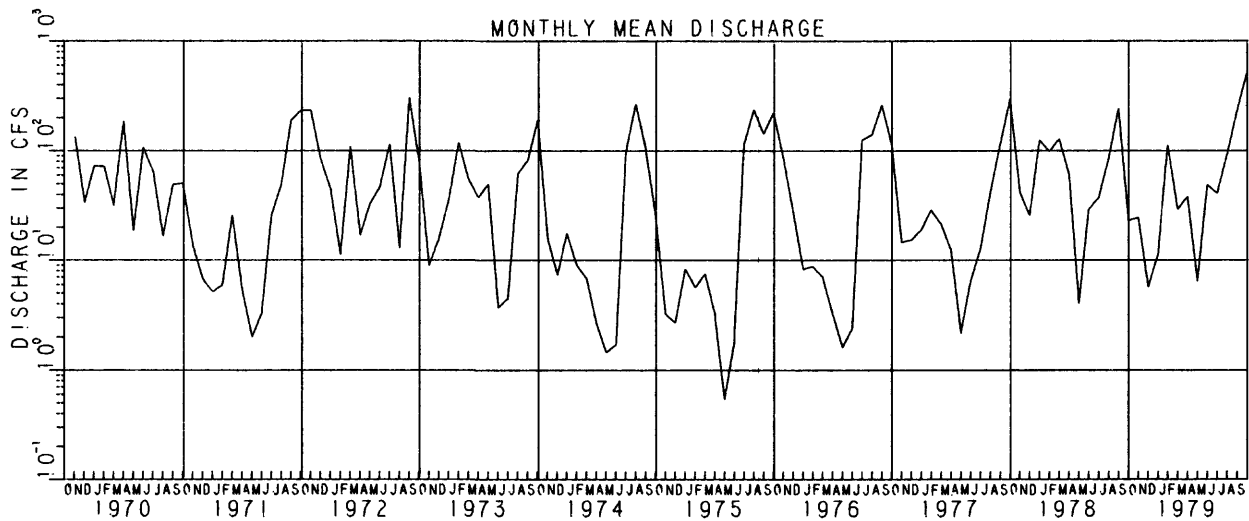
LOCATION.--Lat 27°28'24", long 82°12'41", in SE¼ sec.33, T.34 S., R.21 E., Manatee County, Hydrologic Unit 03100202, at bridge on State Highway 64, 2.0 mi (3.2 km) downstream from confluence of North and East Forks Manatee River, 6.4 mi (10.3 km) east of State Highway 675, 8.4 mi (13.5 km) west of Myakka Head, and 36 mi (58 km) upstream from mouth.

DRAINAGE AREA.--65.3 mi<sup>2</sup> (169.1 km<sup>2</sup>).

PERIOD OF RECORD.--April 1966 to September 1979.

AVERAGE DISCHARGE.--13 years, 66.9 ft<sup>3</sup>/s (1.895 m<sup>3</sup>/s), 13.91 in/yr (353 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,130 ft<sup>3</sup>/s (88.6 m<sup>3</sup>/s) Aug. 15, 1976; no flow part of May 24, 1975.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	4748	100.0	12	4.0	404	4019	84.6	24	140.0	120	537	11.3
1	0.1	4	4748	100.0	13	5.4	420	3615	76.1	25	180.0	101	417	8.7
2	0.2	5	4744	99.9	14	7.3	369	3195	67.3	26	240.0	91	316	6.6
3	0.3	12	4739	99.8	15	9.7	315	2826	59.5	27	330.0	69	225	4.7
4	0.4	24	4727	99.6	16	13.0	320	2511	52.9	28	440.0	51	156	3.2
5	0.5	82	4703	99.1	17	17.0	315	2191	46.1	29	590.0	44	105	2.2
6	0.7	43	4621	97.3	18	23.0	274	1876	39.5	30	790.0	36	61	1.2
7	0.9	77	4578	96.4	19	31.0	266	1602	33.7	31	1100.0	15	25	.5
8	1.3	56	4501	94.8	20	42.0	234	1336	28.1	32	1400.0	8	10	.2
9	1.7	89	4445	93.6	21	56.0	211	1102	23.2	33	1900.0	2	2	
10	2.2	144	4356	91.7	22	76.0	163	891	18.8					
11	3.0	193	4212	88.7	23	100.0	191	728	15.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
4.6	4.6	1.8	0.49	0.36	1.8	5.6	5.6	6.3	3.3	3.0	3.8

## PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## MANATEE RIVER BASIN

02300000 MANATEE RIVER NEAR BRADENTON, FL

LOCATION.--Lat 27°28'30", long 82°18'05", in SW¼ sec.34, T.34 S., R.20 E., Manatee County, Hydrologic Unit 03100202, 150 ft (45.7 m) upstream from bridge on State Highway 675, 800 ft (244 m) upstream from Craig Branch, 6.3 miles (10.1 km) northwest of Verna, and 17 miles (27 km) east of Bradenton.

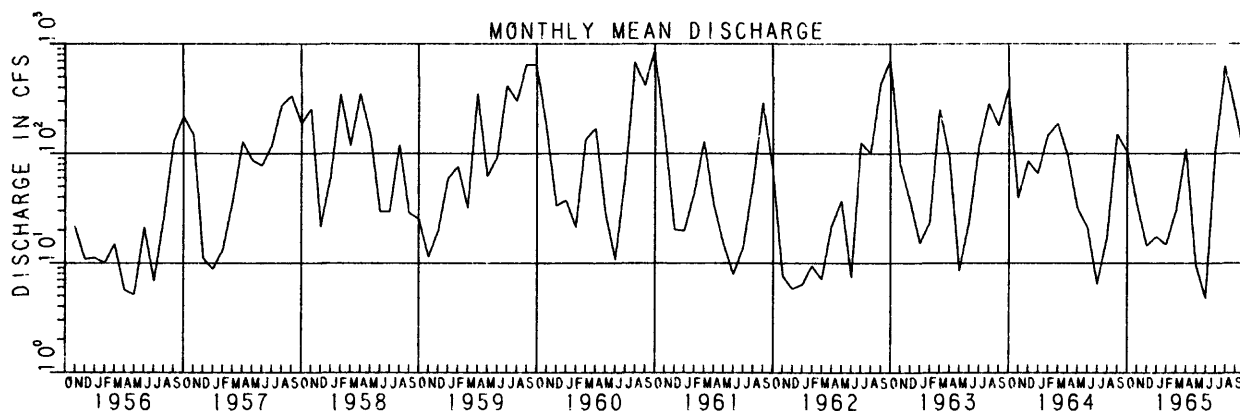
DRAINAGE AREA.--80 mi<sup>2</sup> (207 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--April 1939 to June 1966.

REMARKS.--Records good prior to Feb. 27, fair thereafter.

AVERAGE DISCHARGE.--26 years, 109 ft<sup>3</sup>/s (3.09 m<sup>3</sup>/s), 18.50 in/yr (470 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft<sup>3</sup>/s (267 m<sup>3</sup>/s) Sept. 21, 1962; minimum, 0.6 ft<sup>3</sup>/s (0.02 m<sup>3</sup>/s) May 7, 1939.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	9497	100.0	12	19.0	722	5339	56.2	24	490.0	139	450	4.7
1	1.0	6	9497	100.0	13	25.0	602	4617	48.6	25	640.0	110	311	3.2
2	1.3	12	9491	99.9	14	33.0	517	4015	42.3	26	840.0	67	201	2.1
3	1.7	46	9479	99.8	15	43.0	486	3498	36.8	27	1100.0	50	134	1.4
4	2.2	79	9433	99.3	16	57.0	426	3012	31.7	28	1400.0	46	84	.8
5	2.9	141	9354	98.5	17	74.0	405	2586	27.2	29	1900.0	14	38	.4
6	3.8	321	9213	97.0	18	97.0	391	2181	23.0	30	2500.0	11	24	.2
7	5.0	525	8892	93.6	19	130.0	321	1790	18.8	31	3200.0	6	13	.1
8	6.6	653	8367	88.1	20	170.0	322	1469	15.5	32	4200.0	4	7	
9	8.6	629	7714	81.2	21	220.0	260	1147	12.1	33	5500.0	2	3	
10	11.0	1049	7085	74.6	22	290.0	228	887	9.3	34	7300.0	1	1	
11	15.0	697	6036	63.6	23	370.0	209	659	6.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
7.3	6.2	4.4	3.0	2.2	2.2	10	15	18	7.6	6.7	7.2

## PEACE, WITHLACOOCHIEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## LITTLE MANATEE RIVER BASIN

02300100 LITTLE MANATEE RIVER NEAR FORT LONESOME, FL

LOCATION.--Lat 27°42'16", long 82°11'53", in NW¼ sec.15, T.32 S., R.21 E., Hillsborough County, Hydrologic Unit 03100203, at bridge on State Highway 674, 0.3 mi (1.0 km) upstream from Howard Prairie Branch, 3.2 mi (5.1 km) west of Fort Lonesome, 6.2 mi (10.0 km) east of Wimauma, and 30 mi (48 km) upstream from mouth.

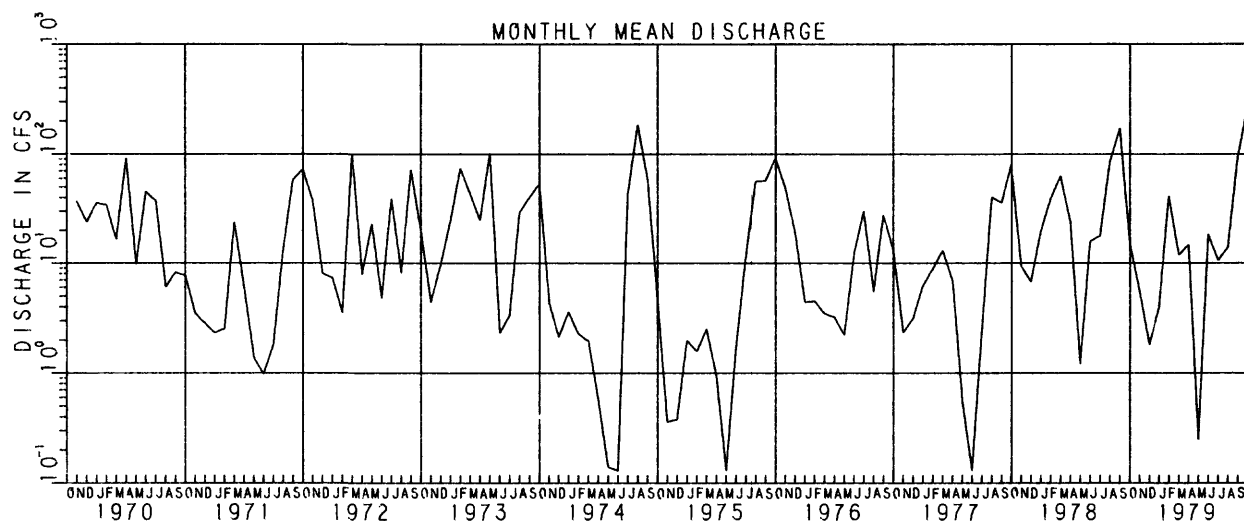
DRAINAGE AREA.--31.4 mi<sup>2</sup> (81.3 km<sup>2</sup>).

PERIOD OF RECORD.--September 1963 to September 1979.

REMARKS.--Small diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--16 years, 28.7 ft<sup>3</sup>/s (0.813 m<sup>3</sup>/s), 12.41 in/yr (315 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft<sup>3</sup>/s (87.8 m<sup>3</sup>/s) Sept. 22, 1979; no flow at times in most years; river dry at gage several days in 1974-75, 1977, 1979.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	259	5844	100.00	12	0.66	114	5209	89.13	24	46.0	252	882	15.09
1	0.01	9	5585	95.57	13	0.97	210	5095	87.18	25	66.0	199	630	10.78
2	0.02	14	5576	95.41	14	1.4	266	4885	83.59	26	93.0	160	431	7.38
3	0.03	7	5562	95.17	15	2.0	377	4619	79.04	27	130.0	100	271	4.64
4	0.04	26	5555	95.05	16	2.8	487	4242	72.59	28	190.0	76	171	2.93
5	0.06	12	5529	94.61	17	3.9	570	3755	64.25	29	270.0	42	95	1.63
6	0.08	44	5517	94.40	18	5.6	499	3185	54.50	30	380.0	35	53	0.91
7	0.12	27	5473	93.65	19	8.0	368	2686	45.96	31	540.0	14	18	0.31
8	0.17	48	5446	93.19	20	11.0	470	2318	39.66	32	770.0	3	4	0.07
9	0.24	56	5398	92.37	21	16.0	385	1848	31.62	33	1100.0	1	1	0.02
10	0.34	66	5342	91.41	22	23.0	301	1463	25.03					
11	0.48	67	5276	90.28	23	32.0	280	1162	19.88					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1.7	1.8	0.55	0.00	0.00	0.07	1.5	2.1	2.3	0.84	0.92	1.3

## PEACE, WITHLACOCOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## LITTLE MANATEE RIVER BASIN

02300500 LITTLE MANATEE RIVER NEAR WIMAUMA, FL

LOCATION.--Lat 27°40'15", long 82°21'10", in NE¼ sec.25, T.32 S., R.19 E., Hillsborough County, Hydrologic Unit 03100203, at bridge on U. S. Highway 301, 1.6 mi (2.6 km) upstream from Cypress Creek, 4.2 mi (6.8 km) southwest of Wimauma, and 15 mi (24 km) upstream from mouth.

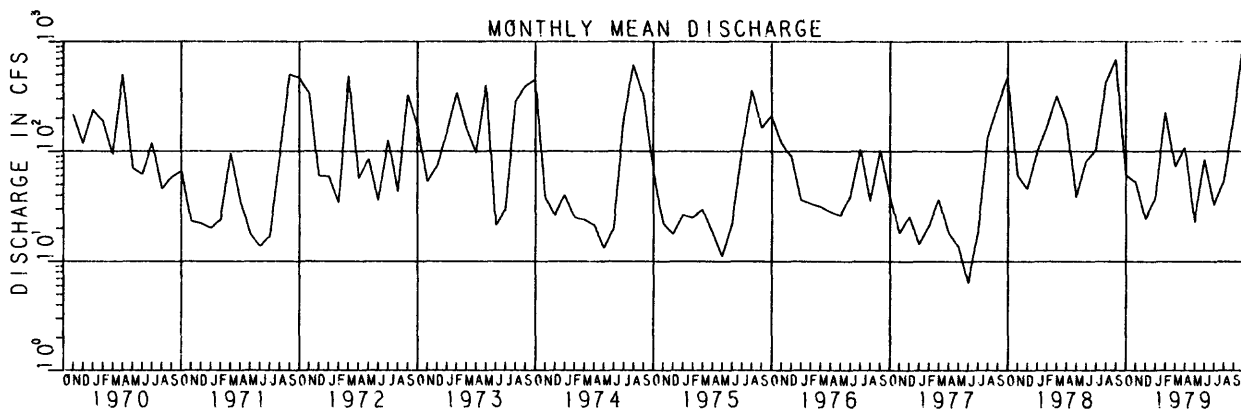
DRAINAGE AREA.--149 mi<sup>2</sup> (386 km<sup>2</sup>).

PERIOD OF RECORD.--March 1939 to September 1979.

REMARKS.--Some diversion, 3.3 mi (5.3 km) above station by Manatee Power Plant since June 1974. Some tide effect on most days.

AVERAGE DISCHARGE.--40 years, 170 ft<sup>3</sup>/s (4.814 m<sup>3</sup>/s), 15.49 in/yr (393 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft<sup>3</sup>/s (396 m<sup>3</sup>/s) Sept. 11, 1960; minimum, 0.78 ft<sup>3</sup>/s (0.022 m<sup>3</sup>/s) Dec. 18, 19, 1976.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14610	100.0	12	20.0	1653	11972	81.9	24	600.0	290	937	6.4
1	0.9	2	14610	100.0	13	27.0	1516	10319	70.6	25	800.0	245	647	4.4
2	1.2	17	14608	100.0	14	36.0	1501	8803	60.3	26	1100.0	149	402	2.7
3	1.6	10	14591	99.9	15	48.0	1153	7302	50.0	27	1400.0	109	253	1.7
4	2.1	20	14581	99.8	16	63.0	1066	6149	42.1	28	1900.0	75	144	.9
5	2.8	36	14561	99.7	17	84.0	816	5083	34.8	29	2500.0	31	69	.4
6	3.8	78	14525	99.4	18	110.0	853	4267	29.2	30	3300.0	16	38	.2
7	5.0	173	14447	98.9	19	150.0	543	3414	23.4	31	4300.0	11	22	.1
8	6.6	288	14274	97.7	20	190.0	628	2871	19.7	32	5700.0	6	11	
9	8.8	465	13986	95.7	21	260.0	470	2243	15.4	33	7600.0	3	5	
10	12.0	554	13521	92.5	22	340.0	449	1773	12.1	34	10000.0	2	2	
11	15.0	995	12967	88.8	23	450.0	387	1324	9.1					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
17	16	12	7.0	4.2	4.9	18	28	29	16	14	10

## PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## ALAFIA RIVER BASIN

02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL

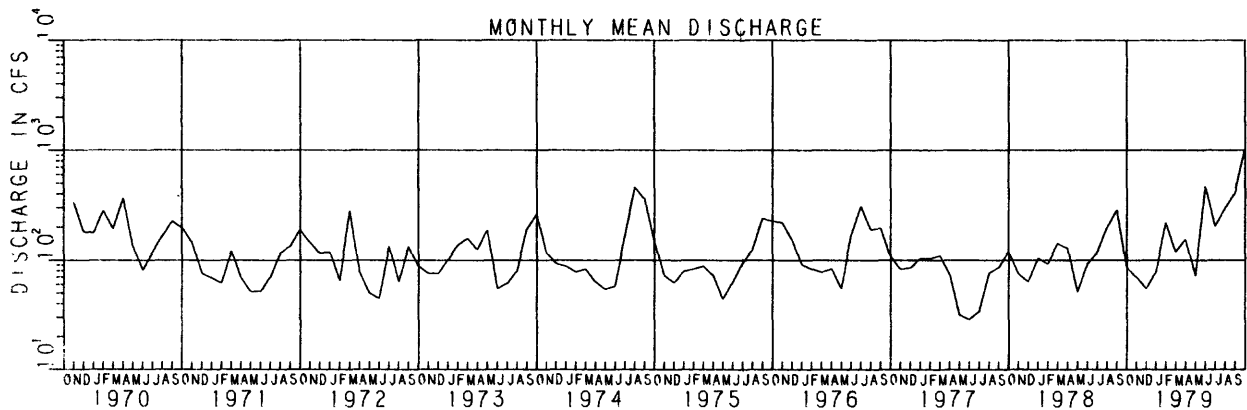
LOCATION.--Lat 27°52'59", long 82°06'03", in SW¼ sec.10, T.30 S., R.22 E., Hillsborough County, Hydrologic Unit 03100204, 300 ft (90 m) downstream from highway bridge, 0.6 mi (1.0 km) north of Keysville, 4.0 mi (6.4 km) upstream from confluence with South Prong Alafia River, and 29 mi (47 km) upstream from mouth of Alafia River at Hillsborough Bay.

DRAINAGE AREA.--135 mi<sup>2</sup> (350 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--May 1950 to September 1979.

AVERAGE DISCHARGE.--29 years, 170 ft<sup>3</sup>/s (4.814 m<sup>3</sup>/s), 123,200 acre-ft/yr (152 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,570 ft<sup>3</sup>/s (271 m<sup>3</sup>/s) Sept. 11, 1960; minimum, 3.6 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s) May 17, 1952.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	10592	100.0	12	46.0	665	9535	90.0	24	670.0	131	333	3.1
1	3.8	7	10592	100.0	13	57.0	1157	8870	83.7	25	830.0	65	202	1.9
2	4.9	12	10585	99.9	14	71.0	1459	7713	72.8	26	1000.0	64	137	1.2
3	6.1	11	10573	99.8	15	89.0	1214	6254	59.0	27	1300.0	21	73	.6
4	7.6	14	10562	99.7	16	110.0	1276	5040	47.6	28	1600.0	21	52	.4
5	9.5	13	10548	99.6	17	140.0	970	3764	35.5	29	2000.0	14	31	.2
6	12.0	22	10535	99.5	18	170.0	891	2794	26.4	30	2500.0	9	17	.1
7	15.0	28	10513	99.3	19	220.0	531	1903	18.0	31	3200.0	2	8	
8	19.0	34	10485	99.0	20	270.0	407	1372	13.0	32	4000.0	2	6	
9	23.0	150	10451	98.7	21	340.0	258	965	9.1	33	5000.0	2	4	
10	29.0	215	10301	97.3	22	430.0	188	707	6.7	34	6200.0	2	2	
11	36.0	551	10086	95.2	23	530.0	186	519	4.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
45	48	37	29	14	19	31	56	59	47	43	50

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL

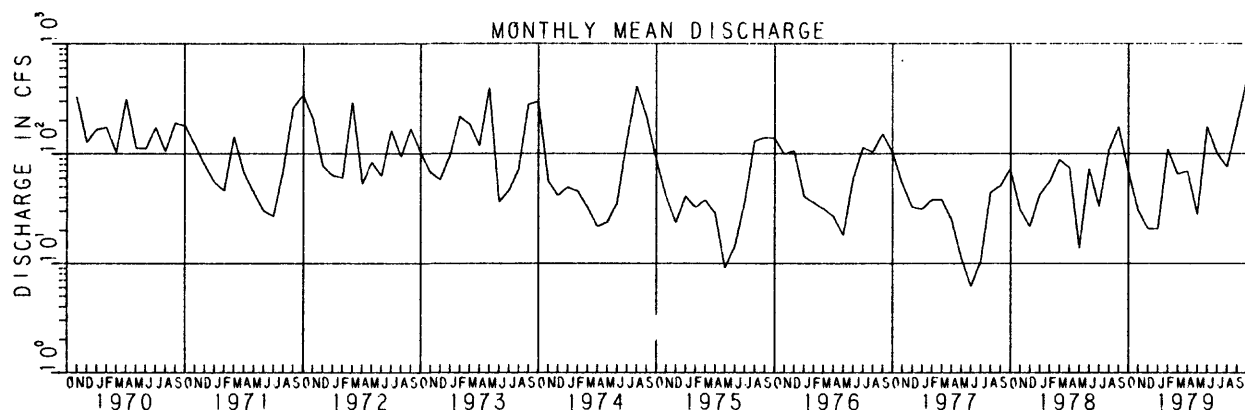
LOCATION.--Lat 27°47'47", long 82°07'04", in SW 1/4 sec.9, T.31 S., R.22 E., Hillsborough County, Hydrologic Unit 03100204, 12 ft (4 m) upstream from bridge on county road, 1.5 mi (2.4 km) upstream from Halls Branch, 5.0 mi (8.0 km) southeast of Lithia, and 7.6 mi (12.2 km) upstream from mouth.

DRAINAGE AREA.--107 mi<sup>2</sup> (277 km<sup>2</sup>).

PERIOD OF RECORD.--December 1962 to September 1979.

AVERAGE DISCHARGE.--16 years (water years 1964-79), 113 ft<sup>3</sup>/s (3.20 m<sup>3</sup>/s), 81,870 acre-ft/yr (101 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft<sup>3</sup>/s (73.6 m<sup>3</sup>/s) Aug. 14, 1967; minimum 1.3 ft<sup>3</sup>/s (0.037 m<sup>3</sup>/s) June 1, 1967, May 4, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5844	100.0	12	19.0	166	5439	93.1	24	230.0	134	585	10.0
1	1.8	6	5844	100.0	13	23.0	304	5273	90.2	25	290.0	110	451	7.7
2	2.3	7	5838	99.9	14	29.0	494	4969	85.0	26	360.0	113	341	5.8
3	2.9	8	5831	99.8	15	36.0	522	4475	76.6	27	440.0	69	228	3.9
4	3.6	8	5823	99.6	16	44.0	511	3953	67.6	28	540.0	66	159	2.7
5	4.4	12	5815	99.5	17	54.0	541	3442	58.9	29	670.0	43	93	1.5
6	5.4	30	5803	99.3	18	67.0	526	2901	49.6	30	820.0	25	50	.8
7	6.7	36	5773	98.8	19	82.0	479	2375	40.6	31	1000.0	15	25	.4
8	8.2	48	5737	98.2	20	100.0	509	1896	32.4	32	1300.0	6	10	.1
9	10.0	47	5689	97.3	21	130.0	278	1387	23.7	33	1500.0	3	4	
10	13.0	45	5642	96.5	22	150.0	333	1109	19.0	34	1900.0	1	1	
11	15.0	158	5597	95.8	23	190.0	191	776	13.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
28	27	18	6.7	4.9	14	36	44	47	24	20	22

## PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## ALAFIA RIVER BASIN

02301350 LITTLE ALAFIA RIVER NEAR HOPEWELL, FL

LOCATION.--Lat 27°56'24", long 82°09'13", in SE¼ sec.24, T.29 S., R.21 E., Hillsborough County, Hydrologic Unit 03100204, 1,200 ft (400 m) upstream from culvert on State Highway 60, 2.4 mi (3.9 km) upstream from Edward Medard Reservoir control structure, and 3.0 mi (4.8 km) west of Hopewell.

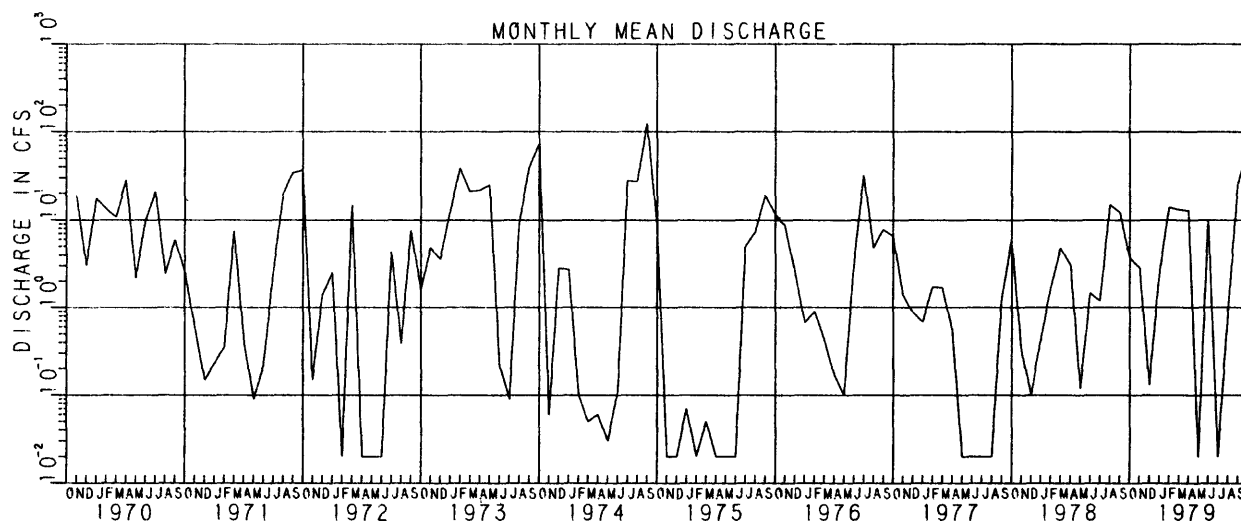
DRAINAGE AREA.--8.65 mi<sup>2</sup> (22.40 km<sup>2</sup>).

PERIOD OF RECORD.--August 1966 to September 1979.

REMARKS.--Since July 1971, flow occasionally affected by backwater from Edward Medard Reservoir.

AVERAGE DISCHARGE.--13 years, 8.15 ft<sup>3</sup>/s (0.231 m<sup>3</sup>/s), 5,900 acre-ft/yr (7.27 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 974 ft<sup>3</sup>/s (27.6 m<sup>3</sup>/s) Sept. 12, 1971.  
no flow at times most years; dry at gage many days 1975-77.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	829	4748	100.00	12	0.49	232	2534	53.37	24	24.0	82	330	6.95
1	0.01	13	3919	82.54	13	0.68	246	2302	48.48	25	34.0	55	248	5.22
2	0.02	89	3906	82.27	14	0.94	236	2056	43.30	26	47.0	38	193	4.06
3	0.03	44	3817	80.39	15	1.3	204	1820	38.33	27	64.0	42	155	3.26
4	0.04	30	3773	79.47	16	1.8	238	1616	34.04	28	89.0	37	113	2.38
5	0.05	209	3743	78.83	17	2.5	229	1378	29.02	29	120.0	34	76	1.60
6	0.07	155	3534	74.43	18	3.5	168	1149	24.20	30	170.0	22	42	0.88
7	0.10	90	3379	71.17	19	4.8	185	981	20.66	31	240.0	13	20	0.42
8	0.13	117	3289	69.27	20	6.6	157	796	16.76	32	330.0	5	7	0.15
9	0.19	139	3172	66.81	21	9.2	135	639	13.46	33	450.0	2	2	0.04
10	0.26	242	3033	63.88	22	13.0	106	504	10.61					
11	0.36	257	2791	58.78	23	18.0	64	398	8.38					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

ALAFIA RIVER BASIN

02301500 ALAFIA RIVER AT LITHIA, FL

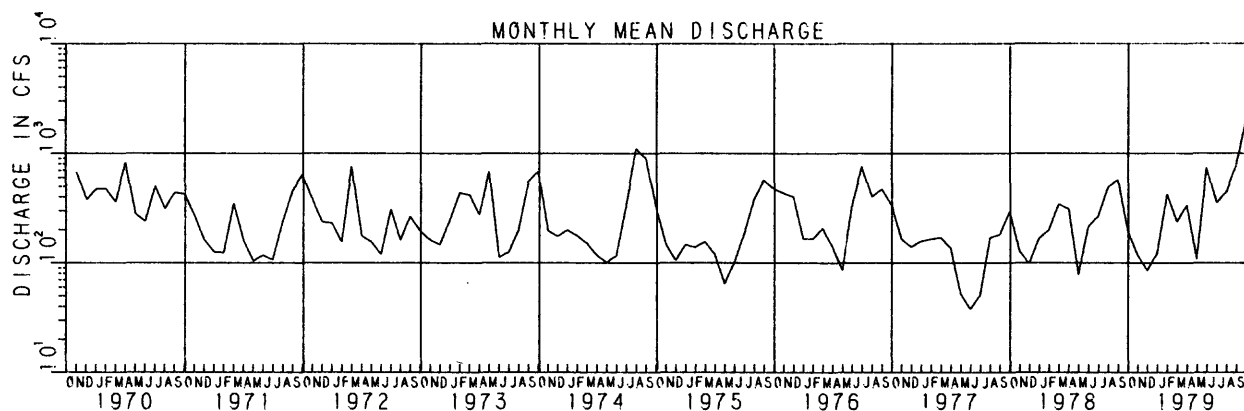
LOCATION.--Lat 27°52'19", long 82°12'41", in NE¼ sec.16, T.30 S., R.21 E., Hillsborough County, Hydrologic Unit 03100204, at bridge on State Highway 640, 2.0 mi (3.2 km) upstream from Little Fishhawk Creek, 4.3 mi (6.9 km) west of Lithia, and 16 mi (26 km) upstream from mouth.

DRAINAGE AREA.--335 mi<sup>2</sup> (868 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1932 to September 1979.

AVERAGE DISCHARGE.--47 years, 367 ft<sup>3</sup>/s (10.39 m<sup>3</sup>/s), 14.88 in/yr (378 mm/yr), 265,900 acre-ft/yr (328 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,900 ft<sup>3</sup>/s (1,300 m<sup>3</sup>/s) Sept. 7, 1933; minimum, 6.6 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) June 5, 1945.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17166	100.0	12	110.0	2132	12436	72.4	24	2500.0	77	200	1.1
.1	6.5	18	17166	100.0	13	150.0	1931	10304	60.0	25	3200.0	50	123	.7
2	8.5	11	17148	99.9	14	190.0	1605	8373	48.8	26	4200.0	33	73	.4
3	11.0	21	17137	99.8	15	240.0	1615	6768	39.4	27	5400.0	18	40	.2
4	14.0	136	17116	99.7	16	320.0	1179	5153	30.0	28	7000.0	10	22	.1
5	19.0	137	16980	98.9	17	410.0	1031	3974	23.2	29	9100.0	4	12	
6	24.0	262	16843	98.1	18	530.0	835	2943	17.1	30	12000.0	1	8	
7	31.0	365	16581	96.6	19	690.0	645	2108	12.3	31	15000.0	5	7	
8	40.0	437	16216	94.5	20	890.0	404	1463	8.5	32	20000.0	0	2	
9	52.0	688	15779	91.9	21	1100.0	441	1059	6.2	33	25000.0	1	2	
10	67.0	1276	15091	87.9	22	1500.0	245	618	3.6	34	33000.0	1	1	
11	87.0	1379	13815	80.5	23	1900.0	173	373	2.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
68	60	45	28	17	24	74	113	108	67	56	61

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREA

02301800 SIXMILE CREEK AT TAMPA, FL

LOCATION.--Lat 27°57'59", long 82°22'07", in NW quarter sec.13, T.29 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, at bridge on State Highway 574, at southeastern city limits of Tampa, and 4.0 miles (6.4 km) upstream from mouth.

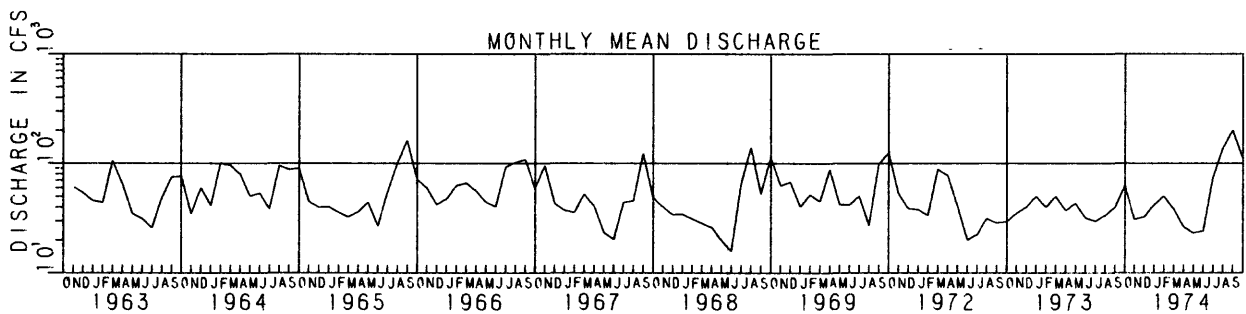
DRAINAGE AREA.--28 mi<sup>2</sup> (73 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--September 1956 to January 1970; July 1971 September 1974.

REMARKS.--Channelization of Sixmile Creek for the Tampa Bypass Canal began in January 1970. Since March 1973, flow affected by control structure S-160, 0.7 mile (1.1 km) downstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--16 years (water years 1957-69, 1972-74), 58.4 ft<sup>3</sup>/s (1.65 m<sup>3</sup>/s), 28.32 in/yr (719 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,290 ft<sup>3</sup>/s (36.5 m<sup>3</sup>/s) Sept. 11, 1960; no flow Aug. 26-28, 1972, May 11-15, 1973



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	9	5844	100.0	12	26.0	373	5068	86.7	24	180.0	98	250	4.2
1	4.3	7	5835	99.8	13	30.0	907	4695	80.3	25	210.0	39	152	2.6
2	5.2	5	5828	99.7	14	36.0	901	3788	64.8	26	240.0	42	113	1.9
3	6.1	7	5823	99.6	15	42.0	707	2887	49.4	27	290.0	29	71	1.2
4	7.1	11	5816	99.5	16	49.0	574	2180	37.3	28	340.0	16	42	.7
5	8.4	18	5805	99.3	17	57.0	380	1606	27.5	29	400.0	11	26	.4
6	9.8	25	5787	99.0	18	68.0	265	1226	21.0	30	460.0	7	15	.2
7	12.0	17	5762	98.6	19	79.0	229	961	16.4	31	540.0	5	8	.1
8	14.0	71	5745	98.3	20	93.0	153	732	12.5	32	640.0	1	3	
9	16.0	149	5674	97.1	21	110.0	123	579	9.9	33	750.0		2	
10	19.0	152	5525	94.5	22	130.0	95	456	7.8	34	880.0	2	2	
11	22.0	305	5373	91.9	23	150.0	111	361	6.2					

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02301900 FOX BRANCH NEAR SOCRUM, FL

LOCATION.--Lat 28°10'55", long 82°00'45", in NE¼ sec.33, T.26 S., R.23 E., Polk County, Hydrologic Unit 03100205, at bridge on Rock Ridge Road, 1.1 mi (1.8 km) northeast of Socrum, 8.7 mi (14.0 km) upstream from mouth, and 10 mi (16 km) north of Lakeland.

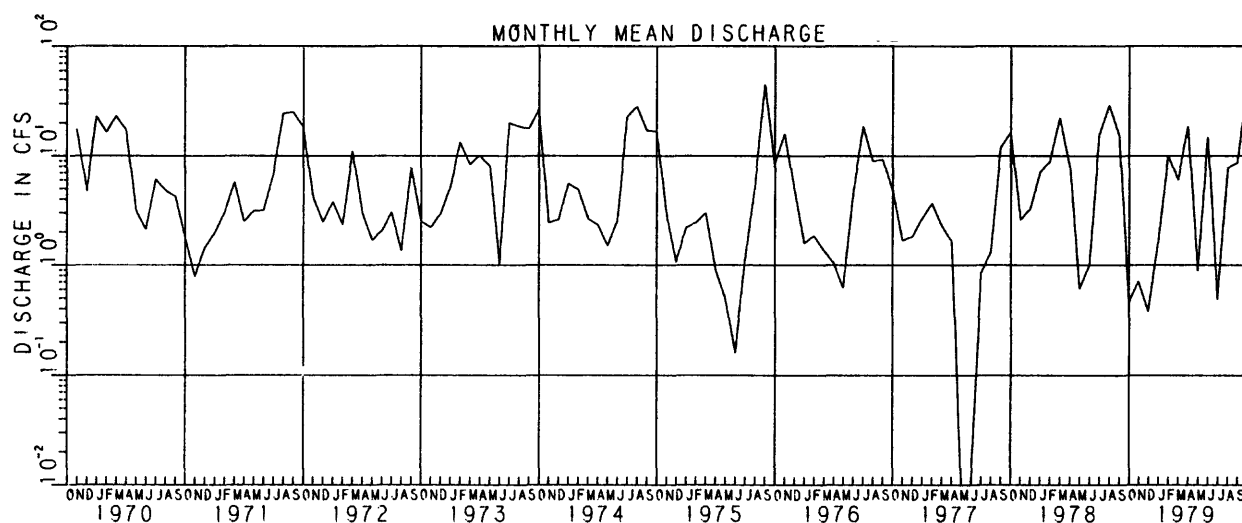
DRAINAGE AREA.--9.5 mi<sup>2</sup> (24.6 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--December 1963 to September 1979.

REMARKS.--Some diversion at times by pumpage for irrigation.

AVERAGE DISCHARGE.--15 years (water years 1965-79), 8.13 ft<sup>3</sup>/s (0.230 m<sup>3</sup>/s), 11.62 in/yr (295 mm/yr), 5,890 acre-ft/yr (7.26 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 685 ft<sup>3</sup>/s (19.4 m<sup>3</sup>/s) Sept. 11, 1964; no flow at times in some years; channel dry at gage many days in 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	147	5478	100.00	12	0.45	167	4965	90.64	24	20.0	156	528	9.64
1	0.01	3	5331	97.32	13	0.62	192	4798	87.59	25	28.0	130	372	6.79
2	0.02	4	5328	97.26	14	0.85	368	4606	84.08	26	39.0	86	242	4.42
3	0.03	2	5324	97.19	15	1.2	463	4238	77.36	27	53.0	72	156	2.85
4	0.04	2	5322	97.15	16	1.6	783	3775	68.91	28	73.0	37	84	1.53
5	0.05	6	5320	97.12	17	2.2	618	2992	54.62	29	100.0	22	47	0.86
6	0.07	12	5314	97.01	18	3.0	535	2374	43.34	30	140.0	12	25	0.46
7	0.09	27	5302	96.79	19	4.2	391	1839	33.57	31	190.0	8	13	0.24
8	0.13	19	5275	96.29	20	5.7	335	1448	26.43	32	260.0	5	5	0.09
9	0.17	71	5256	95.95	21	7.9	227	1113	20.32	33	360.0	0	0	0.00
10	0.24	79	5185	94.65	22	11.0	204	886	16.17					
11	0.33	141	5106	93.21	23	15.0	154	682	12.45					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1.0	1.4	0.43	0.02	0.00	0.00	0.45	0.89	0.42	0.48	0.41	0.77

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL

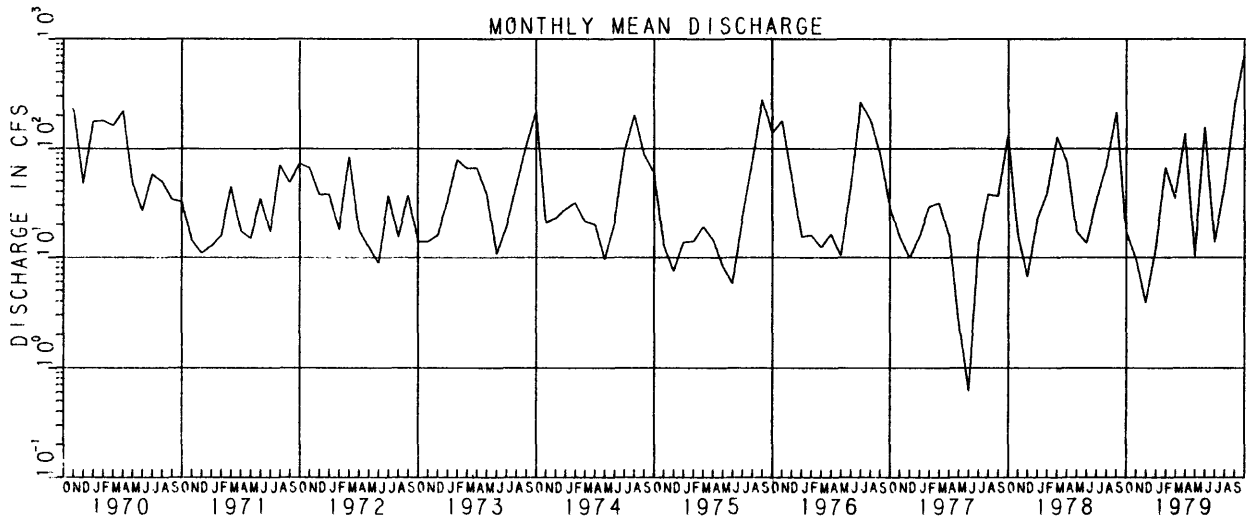
LOCATION.--Lat 28°08'25", long 82°09'00", in NW¼ sec.18, T.27 S., R.22 E., Hillsborough County, Hydrologic Unit 03100205, at bridge on State Highway 39, 2.0 mi (3.2 km) downstream from Itchepackesassa Creek, 4.4 mi (7.1 km) northwest of Knights, and 5.2 mi (8.4 km) upstream from mouth.

DRAINAGE AREA.--110 mi<sup>2</sup> (285 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--January 1951 to September 1979.

AVERAGE DISCHARGE.--28 years, 86.4 ft<sup>3</sup>/s (2.447 m<sup>3</sup>/s), 10.67 in/yr (271 mm/yr), 62,600 acre-ft/yr (77.2 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft<sup>3</sup>/s (153 m<sup>3</sup>/s) Mar. 18, 1960; no flow May 22-29, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	3	10500	100.0	12	4.4	251	10180	97.0	24	220.0	277	960	9.1
1	0.1	1	10492	99.9	13	6.1	477	9929	94.6	25	300.0	231	683	6.5
2	0.1	1	10491	99.9	14	8.5	766	9452	90.0	26	420.0	191	452	4.3
3	0.2	1	10490	99.9	15	12.0	972	8686	82.7	27	580.0	133	261	2.4
4	0.3	10	10489	99.9	16	16.0	1629	7714	73.5	28	800.0	60	128	1.2
5	0.5	4	10479	99.8	17	23.0	1224	6085	58.0	29	1100.0	38	68	.6
6	0.6	17	10475	99.8	18	31.0	1095	4861	46.3	30	1500.0	18	30	.2
7	0.9	18	10458	99.6	19	43.0	854	3766	35.9	31	2100.0	6	12	.1
8	1.2	36	10440	99.4	20	60.0	668	2912	27.7	32	2900.0	5	6	
9	1.7	39	10404	99.1	21	83.0	454	2244	21.4	33	4100.0	1	1	
10	2.3	67	10365	98.7	22	110.0	484	1790	17.0					
11	3.2	118	10298	98.1	23	160.0	30	1301	12.4					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
8.1	10	8.7	2.9	1.4	2.8	6.7	11	11	5.4	4.0	5.6

## PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## HILLSBOROUGH RIVER BASIN

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°08'59", long 82°13'57", in SW¼ sec.8, T.27 S., R.21 E., Hillsborough County, Hydrologic Unit 03100205, at footbridge in Hillsborough River State Park, 1.2 mi (1.9 km) downstream from Blackwater Creek, 6.5 mi (10.5 km) southwest of Zephyrhills, and 40 mi (64 km) upstream from mouth.

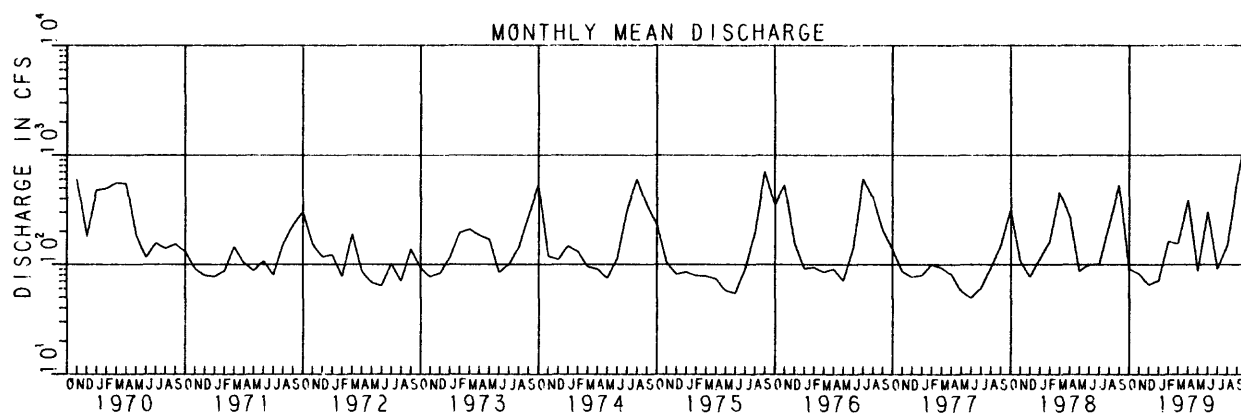
DRAINAGE AREA.--220 mi<sup>2</sup> (570 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1939 to September 1979.

REMARKS.--Records include high-water diversions above station from the Withlacoochee River basin through Withlacoochee-Hillsborough overflow near Richland.

AVERAGE DISCHARGE.--40 years, 265 ft<sup>3</sup>/s (7.505 m<sup>3</sup>/s), 192,000 acre-ft/yr (237 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft<sup>3</sup>/s (357 m<sup>3</sup>/s) Mar. 18, 1960; minimum, 44 ft<sup>3</sup>/s (1.25 m<sup>3</sup>/s) May 27, 28, 30, 31, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14610	100.0	12	270.0	437	3211	22.0	24	1900.0	46	180	1.2
1	45.0	90	14610	100.0	13	320.0	319	2774	19.0	25	2200.0	37	134	.9
2	53.0	348	14520	99.4	14	370.0	405	2455	16.8	26	2600.0	38	97	.6
3	62.0	1048	14172	97.0	15	440.0	339	2050	14.0	27	3100.0	21	59	.4
4	73.0	1955	13124	89.8	16	520.0	282	1711	11.7	28	3700.0	14	38	.2
5	86.0	1869	11169	76.4	17	610.0	269	1429	9.8	29	4300.0	10	24	.1
6	100.0	1954	9300	63.7	18	720.0	247	1160	7.9	30	5100.0	5	14	
7	120.0	1223	7346	50.3	19	840.0	231	913	6.2	31	6000.0	4	9	
8	140.0	1144	6123	41.9	20	990.0	200	682	4.7	32	7000.0	2	5	
9	170.0	494	4979	34.1	21	1200.0	134	482	3.3	33	8200.0	1	3	
10	190.0	735	4485	30.7	22	1400.0	76	348	2.4	34	9700.0	2	2	
11	230.0	539	3750	25.7	23	1600.0	92	272	1.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
74	73	66	60	56	58	68	89	84	71	70	74

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303100 NEW RIVER NEAR ZEPHYRHILLS, FL

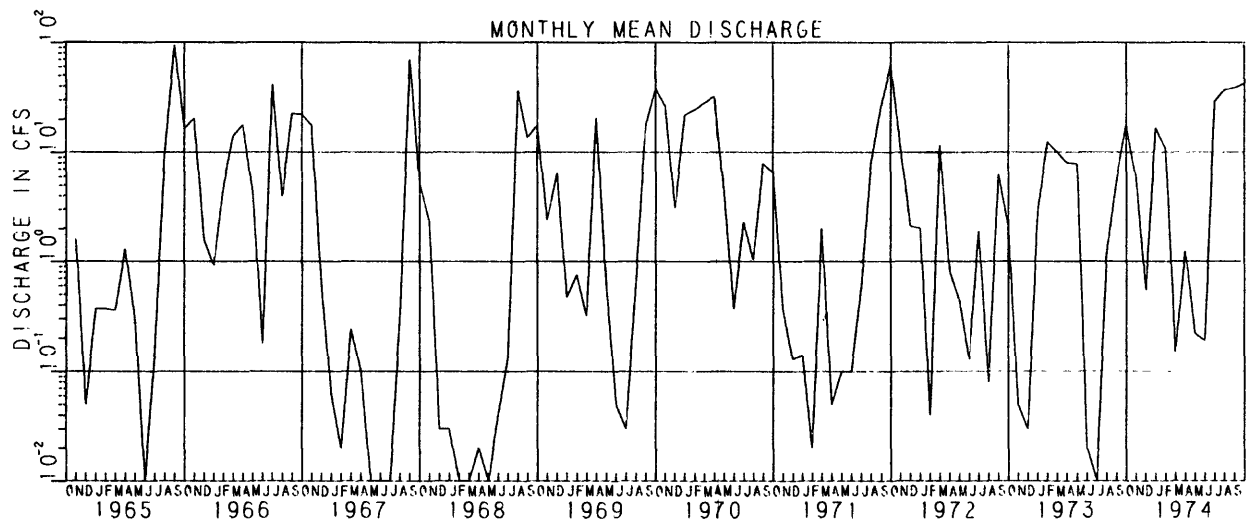
LOCATION.--Lat 28°09'55", long 82°15'55", in NW¼ sec.1, T.27 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, 100 ft (30 m) upstream from bridge on State Highway 579, 1.4 miles (2.3 km) upstream from small tributary, 1.8 miles (2.9 km) upstream from mouth, and 7 miles (11 km) southwest of Zephyrhills.

DRAINAGE AREA.--15 mi<sup>2</sup> (39 km<sup>2</sup>).

PERIOD OF RECORD.--February 1964 to September 1974.

AVERAGE DISCHARGE.--10 years 8.98 ft<sup>3</sup>/s (0.25 m<sup>3</sup>/s), 8.13 in.yr (207 mm/yr), 6,500 acre-ft/yr (8.03 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 269 ft<sup>3</sup>/s (7.62 m<sup>3</sup>/s) Sept. 12, 1964; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	761	3652	100.00	12	0.53	122	1870	51.20	24	21.0	90	390	10.68
1	0.01	100	2891	79.16	13	0.72	96	1748	47.86	25	24.0	79	300	8.21
2	0.02	97	2791	76.42	14	0.98	93	1652	45.24	26	38.0	65	221	6.05
3	0.03	98	2694	73.77	15	1.3	128	1559	42.69	27	52.0	46	156	4.27
4	0.05	27	2596	71.08	16	1.8	127	1431	39.18	28	71.0	36	110	3.01
5	0.06	68	2569	70.35	17	2.5	89	1304	35.71	29	96.0	36	74	2.03
6	0.09	120	2501	68.48	18	3.3	123	1215	33.27	30	130.0	27	38	1.04
7	0.12	81	2381	65.20	19	4.5	127	1092	29.90	31	180.0	9	11	0.30
8	0.16	111	2300	62.98	20	6.2	136	965	26.42	32	240.0	2	2	0.05
9	0.21	116	2189	59.94	21	8.3	111	829	22.70					
10	0.29	106	2073	56.76	22	11.0	158	718	19.66					
11	0.39	97	1967	53.86	23	15.0	170	560	15.33					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.38	0.00	0.00	0.00

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303300 FLINT CREEK NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°04'04", long 82°16'04", in NW 1/4 sec.12, T.28 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, at control, 50 ft (15 m) upstream from bridge, 500 ft (165 m) downstream from Lake Thonotosassa, 2.0 mi (3.2 km) northeast of Thonotosassa, and 2.8 mi (4.5 km) upstream from mouth.

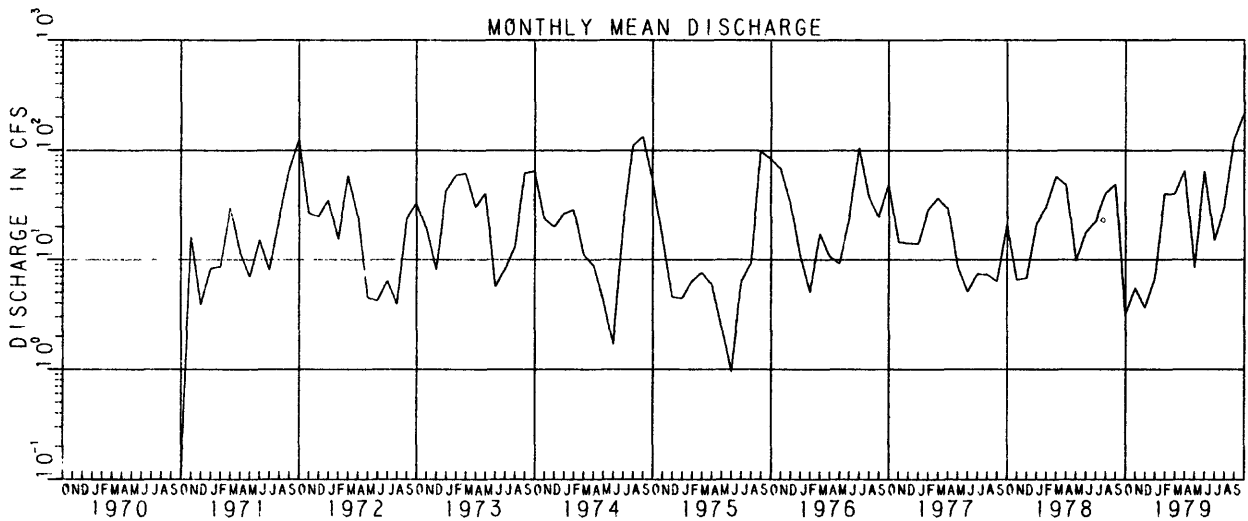
DRAINAGE AREA.--60 mi<sup>2</sup> (150 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--September 1956 to December 1958; October 1970 to September 1979.

REMARKS.--Flow regulated by manipulation of stoplogs, baseflow orifice pipes, and vertical lift gates in control. Prior to December 1975, flow regulated by manipulation of stoplogs in control.

AVERAGE DISCHARGE.--11 years (water years 1957-58, 1971-79), 37.1 ft<sup>3</sup>/s (1.051 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 534 ft<sup>3</sup>/s (15.1 m<sup>3</sup>/s) Sept. 30, 1979; no flow at times some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	25	4017	100.0	12	2.9	123	3680	91.6	24	57.0	236	844	21.0
1	0.1	9	3992	99.4	13	3.7	156	3557	88.5	25	73.0	209	608	15.1
2	0.2	2	3983	99.2	14	4.8	224	3401	84.7	26	93.0	144	399	9.9
3	0.3	3	3981	99.1	15	6.1	331	3177	79.1	27	120.0	96	255	6.3
4	0.4	2	3978	99.0	16	7.8	258	2846	70.8	28	150.0	71	159	3.9
5	0.5	14	3976	99.0	17	10.0	245	2588	64.4	29	190.0	57	88	2.1
6	0.7	20	3962	98.6	18	13.0	171	2343	58.3	30	250.0	23	31	.7
7	0.8	23	3942	98.1	19	16.0	314	2172	54.1	31	320.0	5	8	.1
8	1.1	35	3919	97.6	20	21.0	225	1858	46.3	32	410.0	2	3	
9	1.4	59	3884	96.7	21	27.0	267	1633	40.7	33	520.0	1	1	
10	1.8	42	3825	95.2	22	35.0	228	1366	34.0					
11	2.3	103	3783	94.2	23	44.0	294	1138	28.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1.1	5.1	4.4	1.5	0.72	0.03	1.2	6.6	3.2	3.1	2.1	2.7

## PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## HILLSBOROUGH RIVER BASIN

02303400 CYPRESS CREEK NEAR SAN ANTONIO, FL

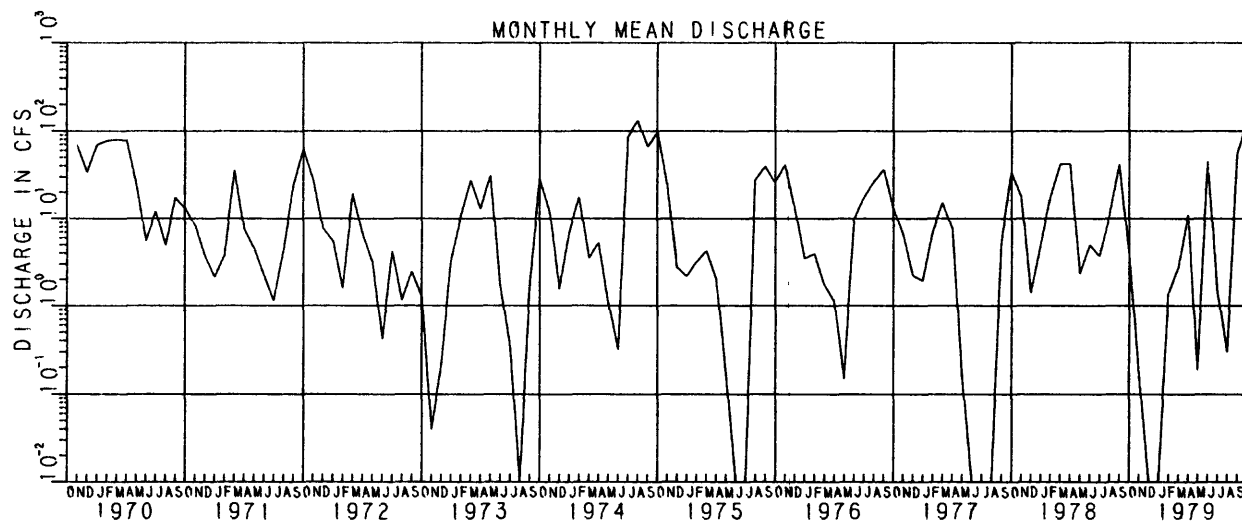
LOCATION.--Lat 28°19'25", long 82°23'03", in SW¼ sec.11, T.25 S., R.19 E., Pasco County, Hydrologic Unit 03100205, at box culverts on State Highway 52, 3.3 mi (5.3 km) downstream from Bee Tree Branch, 6.8 mi (10.9 km) west of San Antonio, 12 mi (19 km) west of Dade City, and 25 mi (40 km) upstream from mouth.

DRAINAGE AREA.--56.0 mi<sup>2</sup> (145 km<sup>2</sup>).

PERIOD OF RECORD.--December 1962 to September 1979.

AVERAGE DISCHARGE.--16 years (water years 1964-79), 21.6 ft<sup>3</sup>/s (0.612 m<sup>3</sup>/s), 5.24 in/yr (133 mm/yr), 15,650 acre-ft/yr (19.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 717 ft<sup>3</sup>/s (20.3 m<sup>3</sup>/s) June 27, 28, 1974; no flow for many days in some years; creek dry at gage many days in 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	548	5844	100.00	12	0.55	118	4868	83.30	24	31.0	348	1192	20.40
1	0.01	18	5296	90.62	13	0.77	136	4750	81.28	25	43.0	282	844	14.44
2	0.02	16	5278	90.31	14	1.1	197	4614	78.95	26	60.0	212	562	9.62
3	0.03	15	5262	90.04	15	1.5	243	4417	75.58	27	83.0	178	350	5.99
4	0.04	7	5247	89.78	16	2.1	323	4174	71.42	28	120.0	82	172	2.94
5	0.05	36	5240	89.66	17	2.9	383	3851	65.90	29	160.0	45	90	1.54
6	0.07	23	5204	89.05	18	4.1	408	3468	59.34	30	230.0	27	45	0.77
7	0.10	40	5181	88.66	19	5.8	419	3060	52.36	31	320.0	11	18	0.31
8	0.15	41	5141	87.97	20	8.0	344	2641	45.19	32	440.0	5	7	0.12
9	0.20	50	5100	87.27	21	11.0	376	2297	39.31	33	620.0	2	2	0.03
10	0.28	74	5050	86.41	22	16.0	339	1921	32.87					
11	0.40	108	4976	85.15	23	22.0	390	1582	27.07					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1.2	0.83	0.57	0.00	0.00	0.00	0.00	0.00	0.10	0.90	0.25	0.58

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL

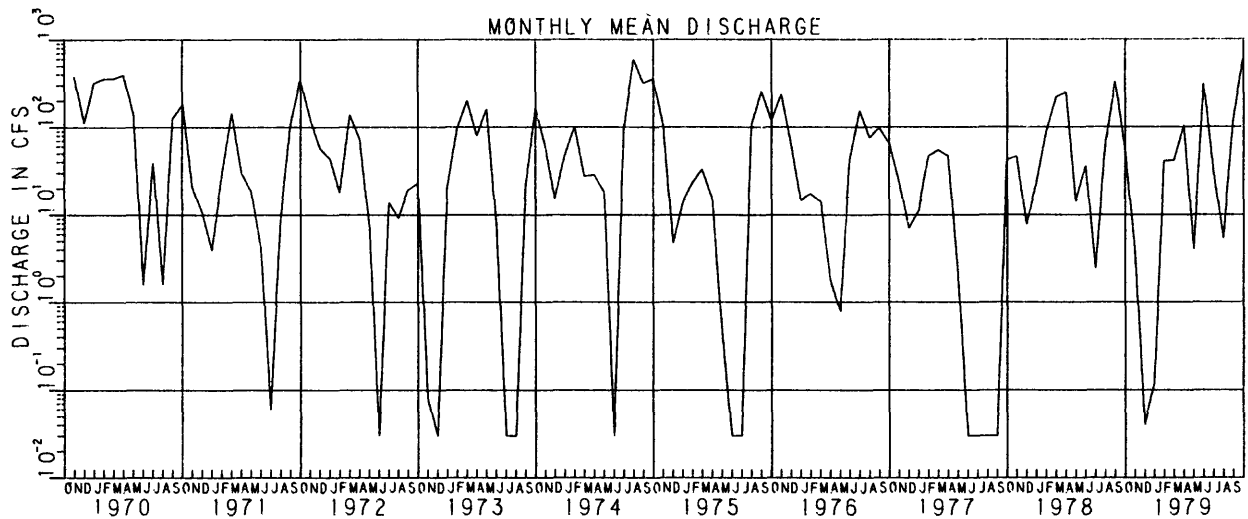
LOCATION.--Lat 28°05'20", long 82°24'33", in SE 1/4 sec.33, T.27 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, at bridge on State Highway 581, 1.2 mi (1.9 km) downstream from Thirteenmile Run, 2.5 mi (4.0 km) up-stream from mouth, and 5.0 mi (8.0 km) northeast of Sulphur Springs.

DRAINAGE AREA.--160 mi<sup>2</sup> (410 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--February 1964 to September 1979.

AVERAGE DISCHARGE.--15 years, 93.0 ft<sup>3</sup>/s (2.634 m<sup>3</sup>/s), 7.89 in/yr (200 mm/yr), 67,380 acre-ft/yr (83.1 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,150 ft<sup>3</sup>/s (60.9 m<sup>3</sup>/s) Sept. 30, 1979; no flow at times most years; creek dry at gage many days in 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	785	5478	100.0	12	1.1	52	4317	78.8	24	92.0	364	1583	28.8
1	0.0	14	4693	85.7	13	1.6	85	4265	77.9	25	130.0	371	1219	22.2
2	0.0	25	4679	85.4	14	2.4	96	4180	76.3	26	190.0	333	848	15.4
3	0.0	16	4654	85.0	15	3.4	167	4084	74.6	27	280.0	238	515	9.4
4	0.1	17	4638	84.7	16	4.9	178	3917	71.5	28	400.0	160	277	5.0
5	0.1	7	4621	84.4	17	7.1	189	3739	68.3	29	570.0	66	117	2.1
6	0.1	61	4614	84.2	18	10.0	259	3550	64.8	30	830.0	38	51	.9
7	0.2	56	4553	83.1	19	15.0	303	3291	60.1	31	1200.0	10	13	.2
8	0.3	40	4497	82.1	20	21.0	298	2988	54.5	32	1700.0	3	3	
9	0.4	39	4457	81.4	21	31.0	373	2690	49.1					
10	0.5	64	4418	80.6	22	44.0	415	2317	42.3					
11	0.8	37	4354	79.5	23	64.0	319	1902	34.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
8.6	9.1	2.5	0.00	0.00	0.00	0.00	0.00	1.4	0.20	0.00	0.32

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL

LOCATION.--Lat 28°01'25", long 82°25'40", in NW¼ sec.29, T.28 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, at upstream side of control structure for Tampa Reservoir, at 30th Street, 5.4 mi (8.7 km) northeast of Tampa, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--650 mi<sup>2</sup> (1,700 km<sup>2</sup>), approximately.

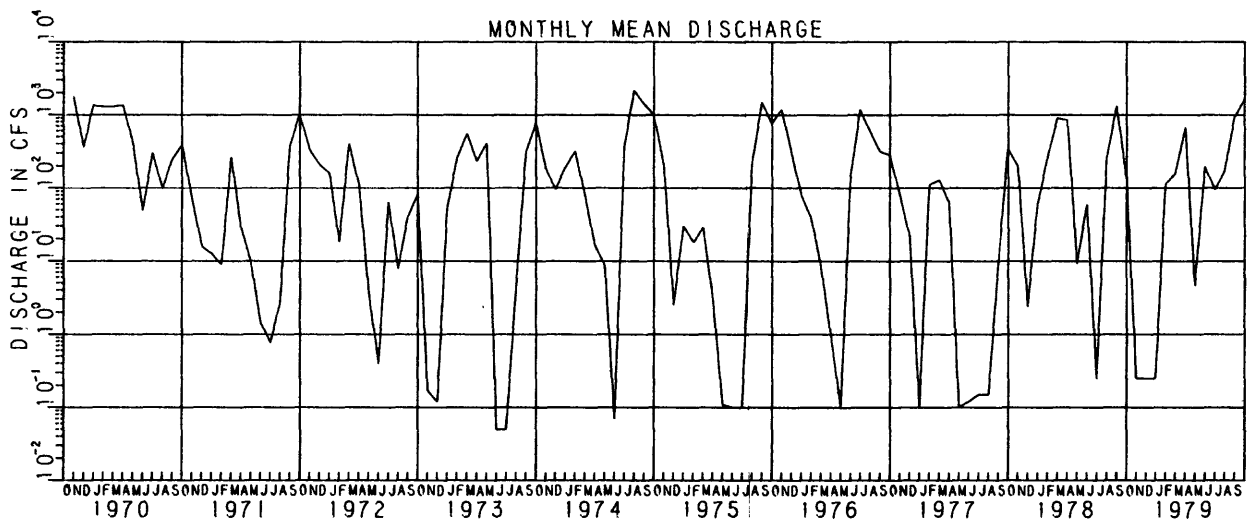
PERIOD OF RECORD.--October 1938 to September 1979.

REMARKS.--Flow regulated at station since Oct. 1, 1945, by manipulation of radial gates in spillways and on dam by city of Tampa Water Department. Capacity of reservoir insufficient to affect monthly figures of runoff. Some diversions at times by pumping from Sulphur Springs at Sulphur Springs into reservoir and at point 1.3 mi (2.1 km) above station for water supply by city of Tampa. An appreciable amount of discharge is diverted from basin into Tampa Bypass Canal during May, August, and September. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--40 years (water years 1939-78), 593 ft<sup>3</sup>/s (16.79 m<sup>3</sup>/s), 12.39 in/yr (315 mm/yr), 429,600 acre-ft/yr (530 hm<sup>3</sup>/yr), adjusted for diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,600 ft<sup>3</sup>/s (413 m<sup>3</sup>/s) Mar. 21, 1960; no flow Nov. 30 to Dec. 2, 1945.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 16,500 ft<sup>3</sup>/s (467 m<sup>3</sup>/s) was measured Sept. 9, 1933.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	185	5478	100.00	12	0.80	46	4354	79.48	24	64.0	344	1902	34.72
1	0.01	14	4693	85.67	13	1.2	56	4308	78.64	25	93.0	341	1558	28.44
2	0.02	19	4679	85.41	14	1.7	72	4252	77.62	26	130.0	373	1217	22.22
3	0.03	6	4660	85.07	15	2.4	106	4180	76.31	27	190.0	322	844	15.41
4	0.04	16	4654	84.96	16	3.5	171	4074	74.37	28	280.0	238	522	9.53
5	0.06	22	4638	84.67	17	5.0	164	3903	71.25	29	400.0	162	284	5.18
6	0.07	34	4616	84.26	18	7.2	189	3739	68.25	30	570.0	71	122	2.23
7	0.13	29	4582	83.64	19	10.0	259	3550	64.80	31	830.0	38	51	0.93
8	0.19	44	4553	83.11	20	15.0	303	3291	60.08	32	1200.0	10	13	0.24
9	0.27	50	4509	82.31	21	21.0	298	2986	54.55	33	1700.0	3	3	0.05
10	0.39	55	4459	81.40	22	31.0	394	2690	49.11					
11	0.56	50	4404	80.39	23	45.0	394	2296	41.91					

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

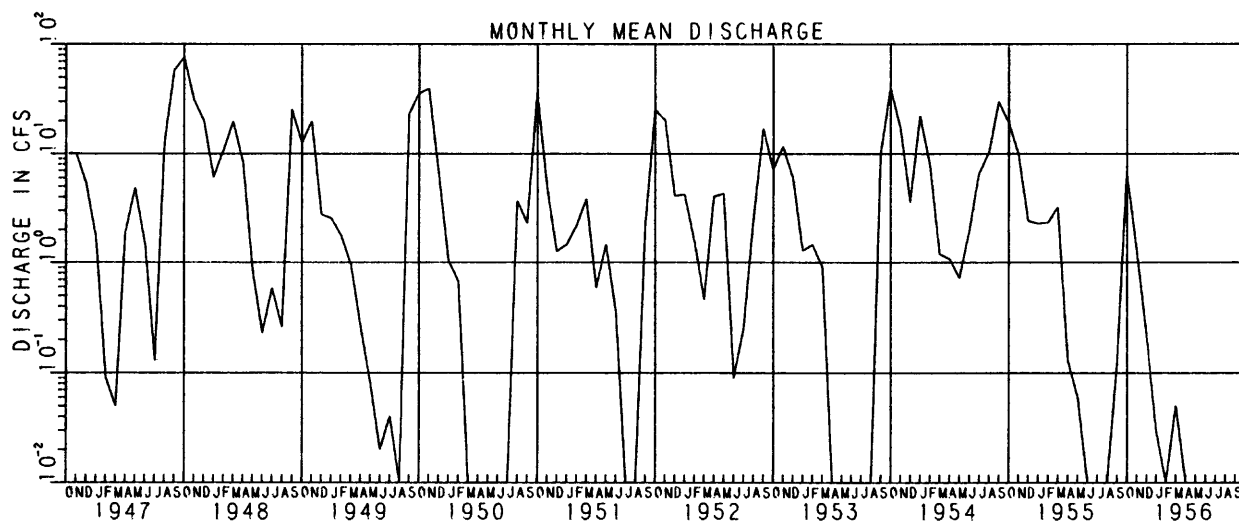
HILLSBOROUGH RIVER BASIN

02305500 DRAINAGE DITCH AT BEARSS AVENUE, NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°01'15", long 82°27'55", in NE¼ sec.36, T.27 S., R.18 E., at bridge on Bearss Avenue, 0.3 mile (0.8 km) west of U.S. Highway 541, and 4.5 miles (7.2 km) north of Sulphur Springs Post Office.

PERIOD OF RECORD.--July 1946 to September 1956.

REMARKS.--Diversion channel 0.6 mile (1.0 km) upstream from station diverts part of flow at high stages into Lake Magdalene and the Sweetwater Creek basin. After the completion of a dam at the diversion channel on Feb. 19, 1953, the amount of flow diverted from the basin increased. No low-flow data contained in Hughes (1981), or listed below.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30  
DISCHARGE, IN CUBIC FEET PER SECOND  
MEAN

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	1047	3653	100.0	12	2.4	142	1394	38.2	24	30.0	57	254	6.9
1	0.1	240	2606	71.3	13	2.9	143	1252	34.3	25	37.0	44	197	5.3
2	0.2	110	2366	64.8	14	3.6	134	1109	30.4	26	46.0	50	153	4.1
3	0.3	75	2256	61.8	15	4.5	105	975	26.7	27	56.0	46	103	2.8
4	0.4	71	2181	59.7	16	5.5	109	870	23.8	28	69.0	38	57	1.5
5	0.5	98	2110	57.8	17	6.8	75	761	20.8	29	86.0	19	19	.5
6	0.7	48	2012	55.1	18	8.4	65	686	18.8	30	110.0			
7	0.8	78	1964	53.8	19	10.0	109	621	17.0					
8	1.0	104	1886	51.6	20	13.0	58	512	14.0					
9	1.3	139	1782	48.8	21	16.0	61	454	12.4					
10	1.6	104	1643	45.0	22	20.0	73	393	10.8					
11	1.9	145	1539	42.1	23	24.0	66	320	8.8					

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL

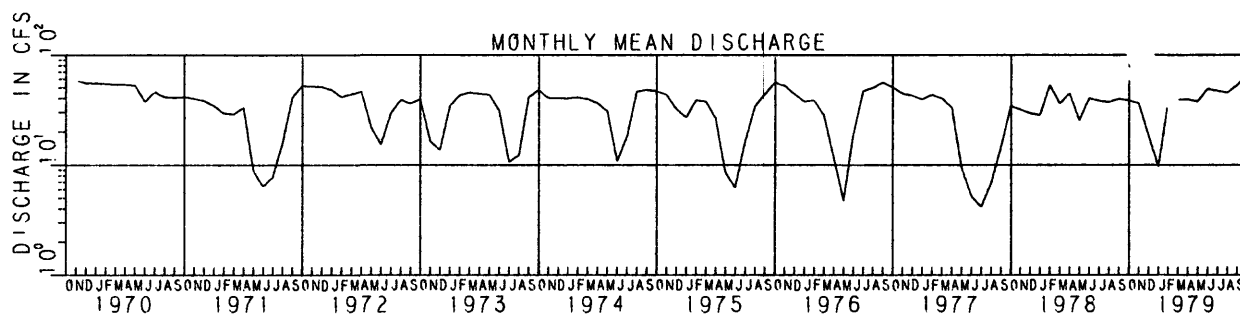
LOCATION.--Lat 28°01'15", long 82°27'07", in NE¼ sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, at swimming pool, 100 ft (30 m) west of U. S. Highway 41 in Sulphur Springs, and 500 ft (150 m) upstream from mouth of outlet channel at Hillsborough River.

PERIOD OF RECORD.--July 1959 to September 1979.

REMARKS.--Flow regulated by operating gates and stoplogs in control at swimming pool outlet at head of springs. Some diversions at times by pumping from the spring pool into Hillsborough River above the dam by the city of Tampa Water Department. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--20 years, 41.5 ft<sup>3</sup>/s (1.175 m<sup>3</sup>/s), 26.8 mg/d (101,400 m<sup>3</sup>/d), 30,070 acre-ft/yr (37.1 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, not determined (probably occurred March 1960, pool flooded by Hillsborough River); maximum measured, 111 ft<sup>3</sup>/s (3.14 m<sup>3</sup>/s) Aug. 21, 1959; minimum daily discharge, 1.6 ft<sup>3</sup>/s (0.045 m<sup>3</sup>/s) May 18, 1968 (affected by pumpage).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	7305	100.0	12	6.9	103	6969	95.4	24	34.0	888	6014	82.3
1	1.5	1	7305	100.0	13	7.9	119	6866	94.0	25	39.0	1767	5126	70.1
2	1.8	0	7304	100.0	14	9.0	100	6747	92.4	26	45.0	1495	3359	45.9
3	2.1	5	7304	100.0	15	10.0	135	6647	91.0	27	51.0	1201	1864	25.5
4	2.4	1	7299	99.9	16	12.0	40	6512	89.1	28	58.0	409	663	9.0
5	2.7	10	7298	99.9	17	13.0	58	6472	88.6	29	67.0	165	254	3.4
6	3.1	14	7288	99.8	18	15.0	90	6414	87.8	30	76.0	27	89	1.2
7	3.6	37	7274	99.6	19	18.0	14	6324	86.6	31	87.0	24	62	.8
8	4.1	39	7237	99.1	20	20.0	21	6310	86.4	32	100.0	14	38	.5
9	4.6	68	7198	98.5	21	23.0	34	6289	86.1	33	110.0	11	24	.3
10	5.3	54	7130	97.6	22	26.0	63	6255	85.6	34	130.0	13	13	.1
11	6.1	107	7076	96.9	23	30.0	178	6192	84.8					

## PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## TAMPA BAY AND COASTAL AREAS

02306500 SWEETWATER CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'35", long 82°30'42", in SW¼ sec.16, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, at culverts on private road, 160 ft (50 m) upstream from Gunn Highway, 1.7 mi (2.7 km) downstream from Lake Ellen, 3.5 mi (5.6 km) west of intersection Interstate 75 and Busch Boulevard at Sulphur Springs.

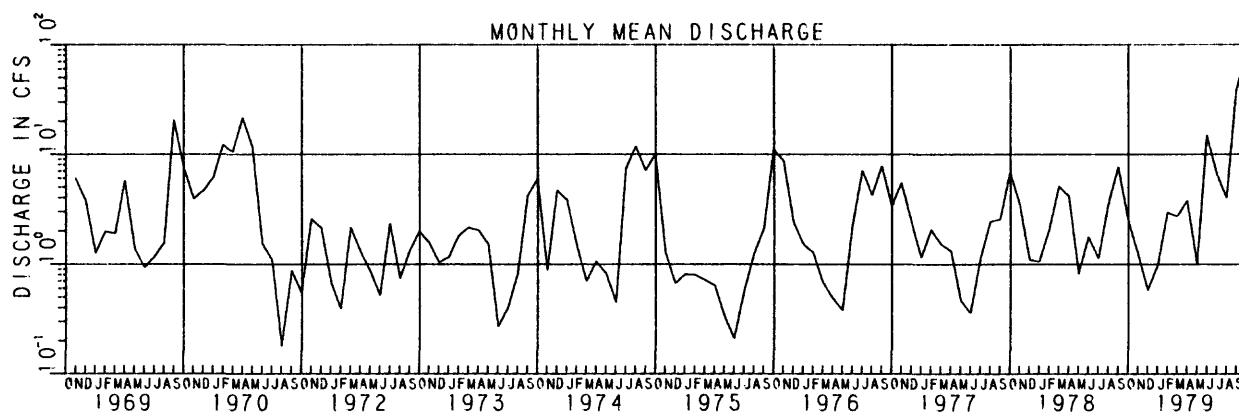
DRAINAGE AREA.--7.43 mi<sup>2</sup> (19.24 km<sup>2</sup>).

PERIOD OF RECORD.--October 1951 to September 1979.

REMARKS.--Flow affected by regulation of control structures above station. Since Feb. 10, 1953, flow occasionally diverted from Hillsborough River basin into the upper portion of Sweetwater Creek basin. Since January 1970, flow has been diverted from basin (below station) through Channel G to Rocky Creek.

AVERAGE DISCHARGE.--28 years, 6.30 ft<sup>3</sup>/s (0.178 m<sup>3</sup>/s), 4,560 acre-ft/yr (5.62 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 438 ft<sup>3</sup>/s (12.4 m<sup>3</sup>/s) Mar. 17, 1960; no flow for many days in some years; creek dry at gage in June 1956.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	898	9862	100.00	12	0.42	452	7024	71.22	24	17.0	273	992	10.06
1	0.01	6	8964	90.89	13	0.57	710	6572	66.64	25	24.0	193	719	7.29
2	0.02	14	8958	90.83	14	0.77	905	5862	59.44	26	32.0	176	526	5.33
3	0.03	6	8944	90.69	15	1.1	571	4957	50.26	27	44.0	135	350	3.55
4	0.04	4	8938	90.63	16	1.4	735	4386	44.47	28	60.0	107	215	2.18
5	0.05	4	8934	90.59	17	2.0	565	3651	37.02	29	81.0	63	108	1.10
6	0.06	30	8930	90.55	18	2.7	465	3086	31.29	30	110.0	26	45	0.46
7	0.09	267	8900	90.25	19	3.7	391	2621	26.58	31	150.0	16	19	0.19
8	0.12	54	8633	87.54	20	5.0	370	2230	22.61	32	210.0	1	3	0.03
9	0.16	595	8579	86.99	21	6.8	340	1860	18.86	33	260.0	2	2	0.02
10	0.22	174	7984	80.96	22	9.3	304	1520	15.41					
11	0.30	786	7810	79.19	23	13.0	224	1216	12.33					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.10	0.23	0.09	0.00	0.00	0.00	0.00	0.14	0.70	0.17	0.08	0.06

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307000 ROCKY CREEK NEAR SULPHUR SPRINGS, FL

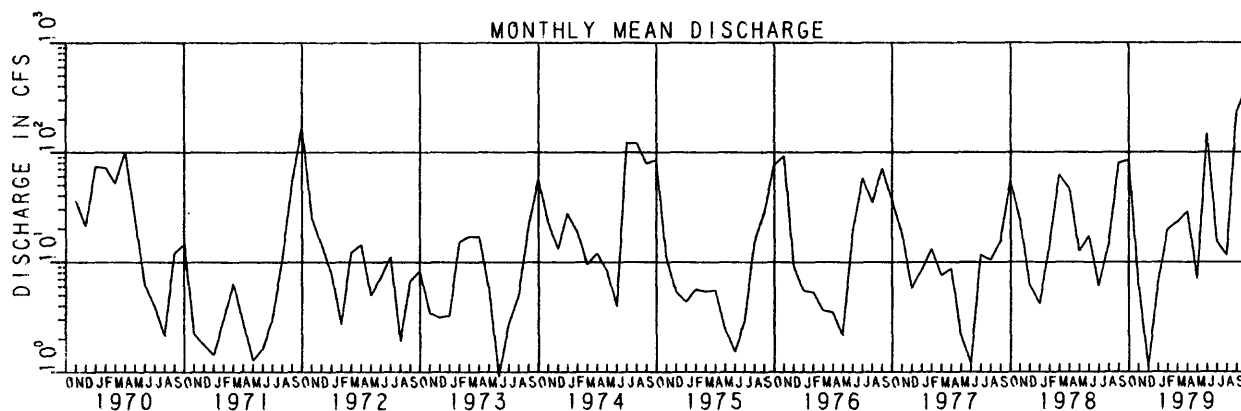
LOCATION.--Lat 28°02'12", long 82°34'34", in NW¼ sec.23, T.28 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, 75 ft (23 m) upstream from concrete control, 2.8 mi (4.5 km) downstream from Brushy Creek, 5.8 mi (9.3 km) upstream from mouth, and 7.4 mi (11.9 km) west of intersection Interstate 75 and Busch Boulevard at Sulphur Springs.

DRAINAGE AREA.--35 mi<sup>2</sup> (90 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--January 1953 to September 1979.

AVERAGE DISCHARGE.--26 years, 35.6 ft<sup>3</sup>/s (1.008 m<sup>3</sup>/s), 13.81 in/yr (351 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,840 ft<sup>3</sup>/s (80.4 m<sup>3</sup>/s) July 29, 1960; no flow Apr. 7 to May 5, 1967.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	29	9496	100.0	12	5.0	894	6891	72.6	24	190.0	107	338	3.5
1	0.1	3	9467	99.7	13	6.8	1009	5997	63.2	25	250.0	109	231	2.4
2	0.2	9	9464	99.7	14	9.2	641	4988	52.5	26	340.0	56	122	1.2
3	0.3	30	9455	99.6	15	12.0	836	4347	45.8	27	460.0	34	66	.6
4	0.5	46	9425	99.3	16	17.0	621	3511	37.0	28	630.0	15	32	.3
5	0.6	133	9379	98.8	17	23.0	563	2890	30.4	29	850.0	8	17	.1
6	0.8	110	9246	97.4	18	31.0	457	2327	24.5	30	1100.0	4	9	
7	1.1	249	9136	96.2	19	42.0	409	1870	19.7	31	1600.0	3	5	
8	1.5	344	8887	93.6	20	56.0	344	1461	15.4	32	2100.0	2	2	
9	2.0	470	8543	90.0	21	76.0	329	1117	11.8					
10	2.8	530	8077	85.0	22	100.0	289	788	8.3					
11	3.7	644	7535	79.3	23	140.0	161	499	5.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1.7	2.3	2.0	0.86	0.71	0.98	1.3	3.0	9.2	2.3	1.6	1.6

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307359 BROOKER CREEK NEAR TARPON SPRINGS, FL

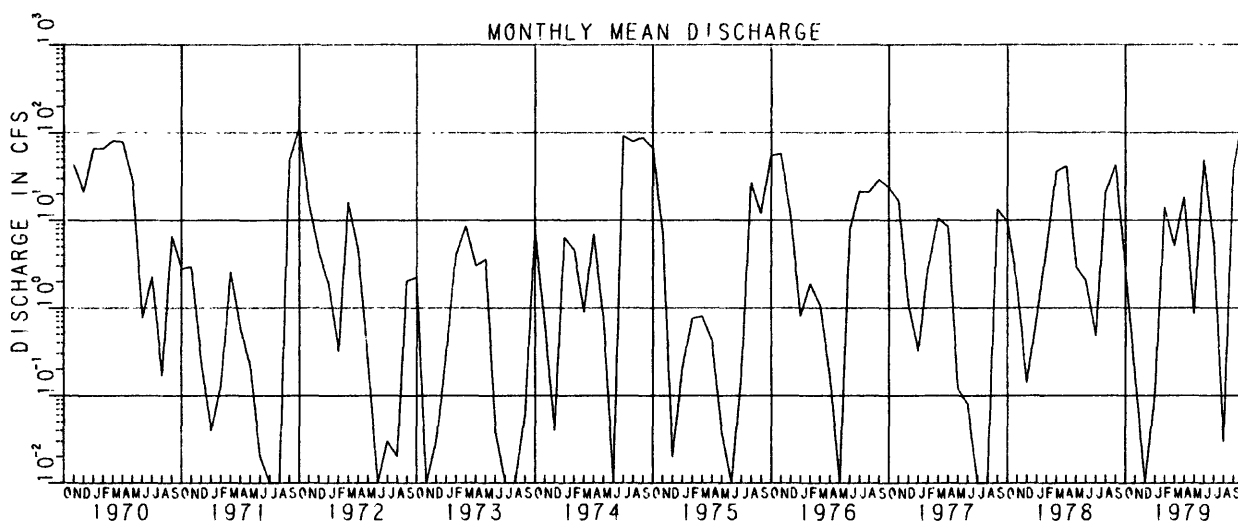
LOCATION.--Lat 28°05'45", long 82°41'15", in NE 1/4 sec.34, T.27 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, 1.9 mi (3.1 km) upstream from mouth, and 5 mi (8 km) southeast of Tarpon Springs.

DRAINAGE AREA.--30 mi<sup>2</sup> (78 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--August 1950 to September 1979.

AVERAGE DISCHARGE.--29 years, 22.0 ft<sup>3</sup>/s (0.623 m<sup>3</sup>/s), 9.96 in/yr (253 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft<sup>3</sup>/s (45.3 m<sup>3</sup>/s) Mar. 17, 1960; no flow many days most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	1507	10592	100.00	12	0.70	230	6909	65.23	24	58.0	411	1046	9.88
1	0.01	123	9085	85.77	13	1.1	349	6679	63.06	25	83.0	282	635	6.00
2	0.02	107	8962	84.61	14	1.6	409	6330	59.76	26	120.0	170	353	3.33
3	0.03	78	8855	83.60	15	2.3	388	5921	55.90	27	170.0	78	143	1.73
4	0.04	186	8777	82.86	16	3.2	435	5533	52.24	28	250.0	45	105	0.99
5	0.06	231	8591	81.11	17	4.6	529	5078	48.13	29	350.0	27	60	0.57
6	0.09	364	8360	78.93	18	6.7	627	4569	43.14	30	510.0	23	33	0.31
7	0.13	105	7996	75.49	19	9.6	636	3942	37.22	31	730.0	5	10	0.09
8	0.16	264	7891	74.50	20	14.0	560	3306	31.21	32	1000.0	3	5	0.05
9	0.26	217	7627	72.01	21	20.0	579	2746	25.93	33	1500.0	2	2	0.02
10	0.37	241	7410	69.96	22	28.0	612	2167	20.46					
11	0.53	220	7129	67.31	23	41.0	509	1555	14.68					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.09	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.84	0.53	0.00	0.00

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307697 ALLIGATOR CREEK AT SAFETY HARBOR, FL

LOCATION.--Lat 27°58'45", long 82°41'45", in NW¼ sec.10, T.29 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, 30 ft (9 m) upstream from bridge on Bayshore Drive, and 0.8 mi (1.3 km) southwest of Safety Harbor.

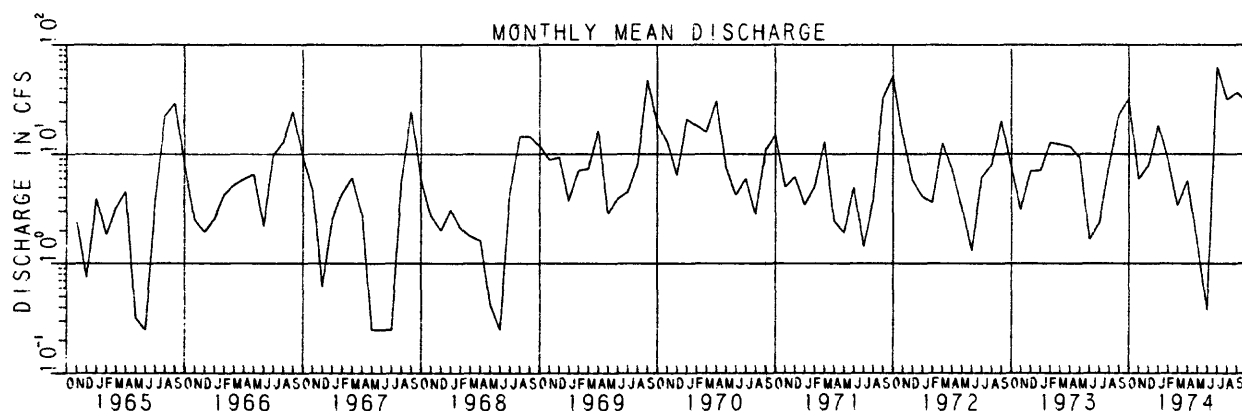
DRAINAGE AREA.--9.0 mi<sup>2</sup> (23.3 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1949 to April 1959; October 1960 to September 1974.

REMARKS.--Some diversions may occur above station for irrigation.

AVERAGE DISCHARGE.--23 years (water years 1950-58, 1961-74), 7.98 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s), 12.04 in/yr (306 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft<sup>3</sup>/s (29.2 m<sup>3</sup>/s) June 29, 1974.



DISCHARGE, IN CUBIC FEET PER SECOND  
MEAN

DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	945	8400	100.00	12	0.53	142	8813	81.11	24	28.0	200	470	5.60
1	0.01	7	7415	88.27	13	0.74	327	8671	79.42	25	39.0	105	270	3.21
2	0.02	6	7408	88.19	14	1.0	430	8345	75.54	26	54.0	69	165	1.96
3	0.03	7	7402	88.12	15	1.4	586	5915	70.42	27	75.0	37	96	1.14
4	0.04	6	7395	88.04	16	2.0	917	5329	63.44	28	100.0	35	59	0.70
5	0.05	7	7389	87.96	17	2.8	729	4412	52.52	29	150.0	11	24	0.29
6	0.07	7	7382	87.88	18	3.8	904	3683	43.85	30	200.0	6	13	0.15
7	0.10	47	7375	87.80	19	5.4	656	2779	33.08	31	280.0	3	7	0.08
8	0.14	11	7328	87.24	20	7.5	455	2123	25.27	32	390.0	4	4	0.05
9	0.20	99	7317	87.11	21	10.0	454	1868	19.86	33	550.0	0	0	0.00
10	0.27	134	7218	85.93	22	14.0	437	1214	14.45					
11	0.38	271	7084	84.33	23	20.0	307	777	9.25					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.42	0.21	0.01	0.00	0.00	0.00	0.00	0.89	0.86	0.41	0.26	0.48

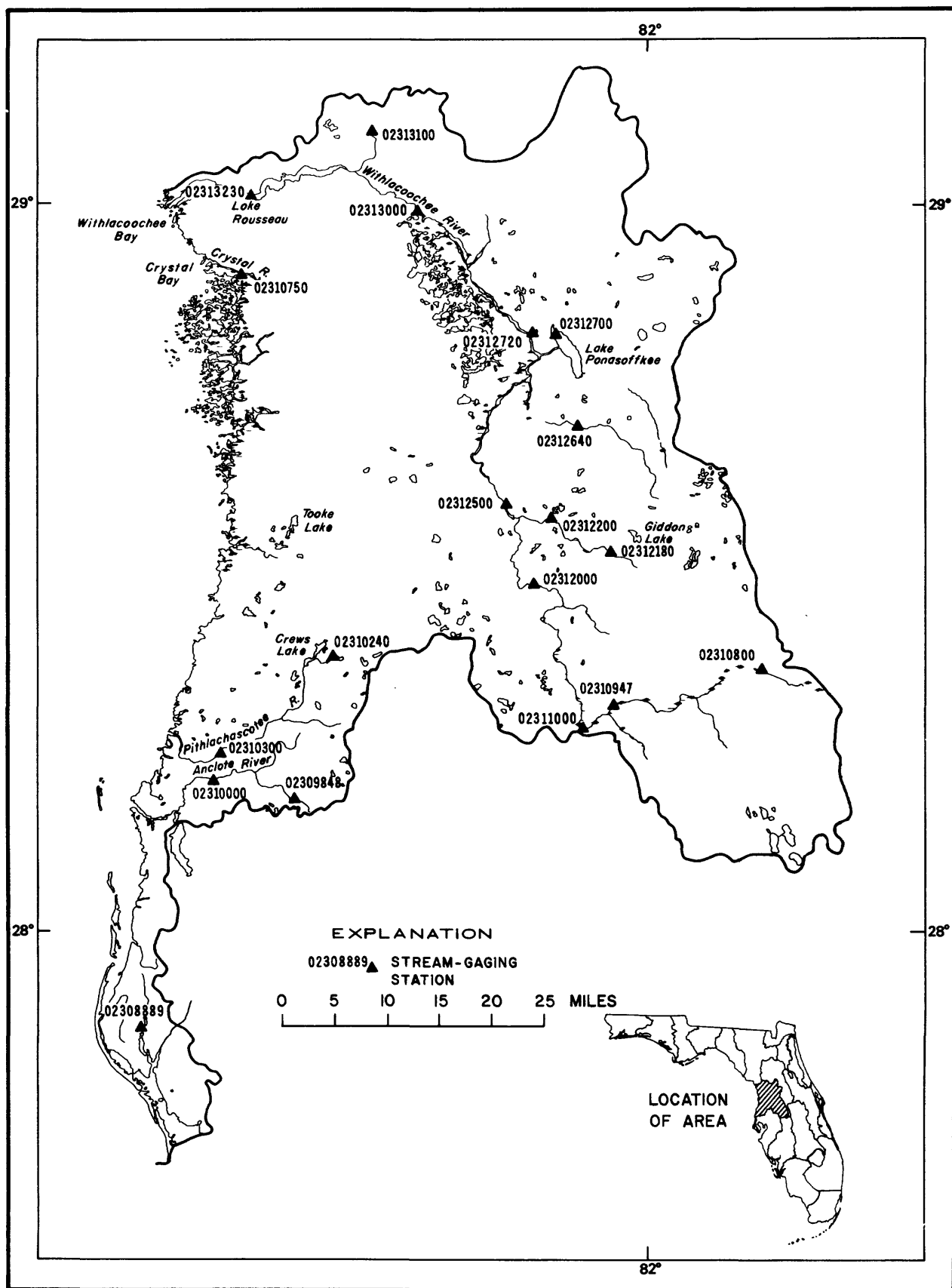


Figure 13.-- Stations in the coastal area from Tampa Bay to Withlacoochee River and the Withlacoochee River basin.

## PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

## 02308889 SEMINOLE LAKE OUTLET NEAR LARGO, FL

LOCATION.--Lat 27°50'20", long 82°46'50", in SE¼ sec.27, T.30 S., R.15 E., Pinellas County, Hydrologic Unit 03100207, at Seminole Lake, 250 ft (75 m) west of highway bridge across spillway channel, and 5.2 mi (8.4 km) south of Largo.

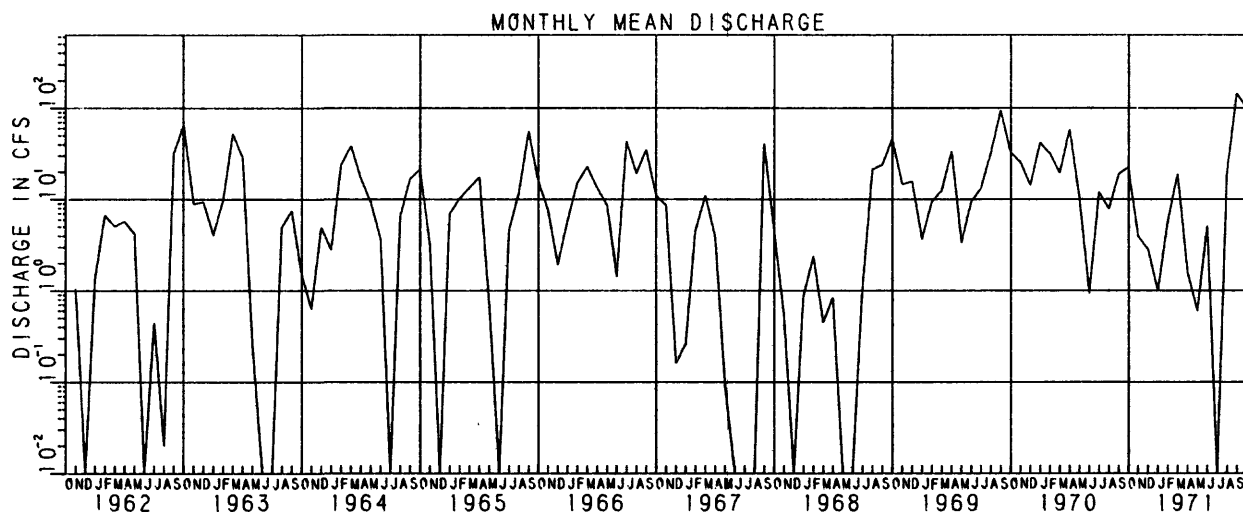
DRAINAGE AREA.--6.94 mi<sup>2</sup> (17.97 km<sup>2</sup>).

PERIOD OF RECORD.--August 1950 to September 1971.

REMARKS.--Greater part of inflow to Seminole Lake is regulated by pumps at north dam 3.0 mi (4.8 km) above station. Pumpage at north dam represents natural flow of tributary above dam. No low-flow data below.

AVERAGE DISCHARGE.--21 years, 15.8 ft<sup>3</sup>/s (0.44 m<sup>3</sup>/s), 15.33 in/yr (389 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 642 ft<sup>3</sup>/s (18.2 m<sup>3</sup>/s) Aug. 16, 1971; no flow for many days each year.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	2160	7670	100.00	12	0.52	91	5165	67.34	24	27.0	404	1237	16.13
1	0.01	2	5510	71.84	13	0.72	96	5074	66.15	25	37.0	279	833	10.86
2	0.02	4	5508	71.81	14	1.0	199	4978	64.90	26	51.0	217	554	7.22
3	0.03	4	5504	71.76	15	1.4	163	4779	62.31	27	72.0	139	337	4.39
4	0.04	2	5500	71.71	16	1.9	239	4616	60.18	28	99.0	91	198	2.58
5	0.05	13	5498	71.68	17	2.7	277	4377	57.07	29	140.0	51	107	1.40
6	0.07	2	5485	71.51	18	3.7	338	4100	53.46	30	190.0	32	56	0.73
7	0.10	74	5483	71.49	19	5.2	459	3762	49.05	31	270.0	14	24	0.31
8	0.14	2	5409	70.52	20	7.2	560	3303	43.06	32	370.0	8	10	0.13
9	0.19	72	5407	70.50	21	10.0	474	2743	35.76	33	510.0	2	2	0.03
10	0.27	60	5335	69.56	22	14.0	511	2269	29.58					
11	0.37	110	5275	68.77	23	19.0	521	1758	22.92					

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310000 ANCLOTE RIVER NEAR ELPERS, FL

LOCATION.--Lat 28°12'50", long 82°40'00", in NE¼ sec.23, T.26 S., R.16 E., Pasco County, Hydrologic Unit 03100207, 40 ft (12 m) downstream from bridge on State Highway 54, 3.5 mi (5.6 km) east of Elfers, and 16 mi (26 km) upstream from mouth.

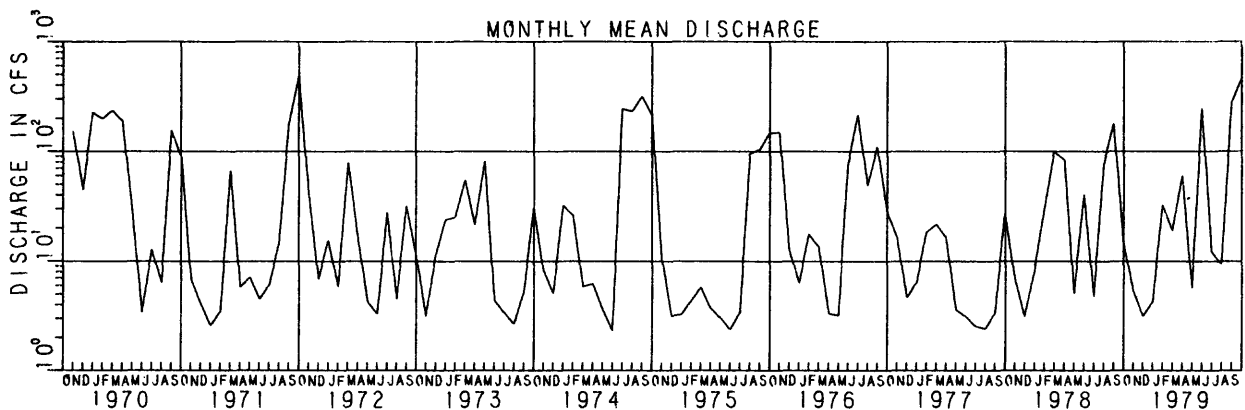
DRAINAGE AREA.--72.5 mi<sup>2</sup> (187.8 km<sup>2</sup>).

PERIOD OF RECORD.--May 1946 to September 1979.

AVERAGE DISCHARGE.--33 years, 74.3 ft<sup>3</sup>/s (2.104 m<sup>3</sup>/s), 13.92 in/yr (354 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,890 ft<sup>3</sup>/s (110 m<sup>3</sup>/s) July 30, 1960; minimum, 0.40 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) May 19, 1956 (affected by pumpage).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 5000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) Aug. 8 or 9, 1945, from information by local residents.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0.	0.0	0	12053	100.0	12	13.0	555	6202	51.5	24	280.0	278	814	6.7
1	0.7	3	12053	100.0	13	17.0	472	5647	46.9	25	360.0	190	536	4.4
2	1.0	15	12050	100.0	14	22.0	493	5175	42.9	26	470.0	135	346	2.8
3	1.3	39	12035	99.9	15	28.0	621	4682	38.8	27	600.0	84	211	1.7
4	1.7	68	11996	99.5	16	37.0	480	4061	33.7	28	780.0	55	127	1.0
5	2.2	584	11928	99.0	17	47.0	471	3581	29.7	29	1000.0	31	72	.5
6	2.9	1224	11344	94.1	18	61.0	434	3110	25.8	30	1300.0	20	41	.3
7	3.7	1310	10120	84.0	19	78.0	410	2676	22.2	31	1700.0	9	21	.1
8	4.8	855	8810	73.1	20	100.0	377	2266	18.8	32	2200.0	6	12	
9	6.1	668	7955	66.0	21	130.0	389	1889	15.7	33	2800.0	5	6	
10	7.9	541	7287	60.5	22	170.0	377	1500	12.4	34	3600.0	1	1	
11	10.0	544	6746	56.0	23	220.0	309	1123	9.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3.3	3.7	2.6	2.3	2.0	1.9	2.4	5.8	7.2	2.6	2.1	3.6

PEACE, WITHLACOOCHIEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHIEE RIVER

02310240 JUMPING GULLY AT LOYCE, FL

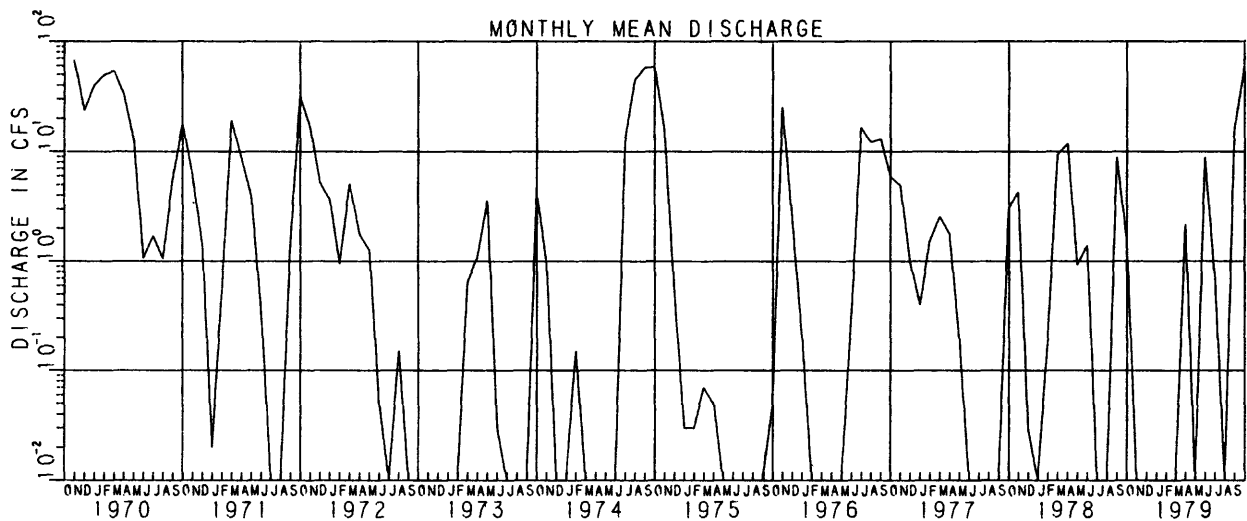
LOCATION.--Lat 28°23'06", long 82°29'22", in NE¼ sec.22, T.24 S., R.18 E., Pasco County, Hydrologic Unit 03100207, at bridge on U. S. Highway 41, 100 ft (30 m) downstream from concrete control structure at outlet of Pasco Lake, 0.3 mi (0.5 km) north of Loyce, 2.7 mi (4.3 km) upstream from mouth, and 4.4 mi (7.1 km) southwest of Masaryktown.

DRAINAGE AREA.--43 mi<sup>2</sup> (111 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--May 1964 to September 1979.

AVERAGE DISCHARGE.--15 years, 7.60 ft<sup>3</sup>/s (0.215 m<sup>3</sup>/s), 2.40 in/yr (61 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 920 ft<sup>3</sup>/s (26.1 m<sup>3</sup>/s) Sept. 18, 1964; no flow for many days in most years; gully dry at gage for many days in most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	2107	5478	100.00	12	0.62	156	2577	47.04	24	39.0	127	285	5.20
1	0.01	36	3371	61.54	13	0.88	160	2421	44.19	25	55.0	86	158	2.88
2	0.02	75	3335	60.88	14	1.2	200	2261	41.27	26	77.0	43	72	1.31
3	0.03	53	3260	59.51	15	1.8	161	2061	37.62	27	110.0	17	29	0.53
4	0.04	65	3207	58.54	16	2.5	151	1900	34.68	28	150.0	11	12	0.22
5	0.06	44	3142	57.36	17	3.5	157	1749	31.93	29	220.0	1	1	0.02
6	0.08	77	3098	56.55	18	4.9	213	1592	29.06	30	310.0	0	0	0.00
7	0.11	87	3021	55.15	19	6.9	217	1379	25.17	31	430.0	0	0	0.00
8	0.16	67	2934	53.56	20	9.8	240	1162	21.21	32	610.0	0	0	0.00
9	0.22	69	2867	52.34	21	14.0	222	922	16.83	33	860.0	0	0	0.00
10	0.31	96	2798	51.08	22	19.0	251	700	12.78					
11	0.44	125	2702	49.32	23	27.0	164	449	8.20					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310300 PITHLACHASCOTEE RIVER NEAR NEW PORT RICHEY, FL

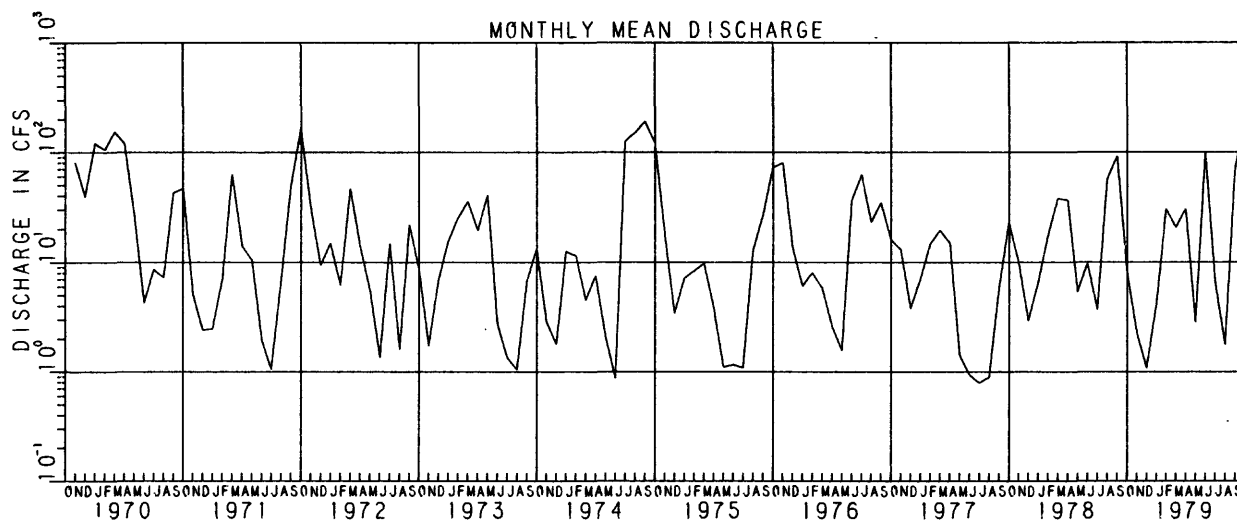
LOCATION.--Lat 28°15'19", long 82°39'37", in NW¼ sec.1, T.26 S., R.16 E., Pasco County, Hydrologic Unit 03100207, near the end of a private road, 3.8 mi (6.1 km) east of New Port Richey, and 9.4 mi (15.1 km) upstream from mouth.

DRAINAGE AREA.--182 mi<sup>2</sup> (471 km<sup>2</sup>).

PERIOD OF RECORD.--March 1963 to September 1979.

AVERAGE DISCHARGE.--16 years, 31.2 ft<sup>3</sup>/s (0.884 m<sup>3</sup>/s), 2.33 in/yr (59 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,410 ft<sup>3</sup>/s (39.9 m<sup>3</sup>/s) Sept. 11, 1964; minimum, 0.28 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) May 30, 31, June 1, 2, 1971.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5844	100.0	12	4.8	337	3860	66.1	24	93.0	124	487	8.3
1	0.3	8	5844	100.0	13	6.2	340	3523	60.3	25	120.0	103	363	6.2
2	0.4	7	5836	99.9	14	7.9	337	3183	54.5	26	150.0	99	260	4.4
3	0.5	31	5829	99.7	15	10.0	323	2846	48.7	27	190.0	67	161	2.7
4	0.7	210	5798	99.2	16	13.0	393	2523	43.2	28	250.0	38	94	1.6
5	0.9	214	5588	95.6	17	17.0	257	2130	36.4	29	320.0	31	56	.9
6	1.1	369	5374	92.0	18	21.0	273	1873	32.0	30	410.0	13	25	.4
7	1.4	261	5005	85.6	19	27.0	282	1600	27.4	31	520.0	6	12	.2
8	1.8	184	4744	81.2	20	35.0	238	1318	22.6	32	670.0	2	6	.1
9	2.3	194	4560	78.0	21	44.0	235	1080	18.5	33	850.0	3	4	
10	2.9	295	4366	74.7	22	57.0	181	845	14.5	34	1100.0	1	1	
11	3.8	211	4071	69.7	23	72.0	177	664	11.4					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3.6	3.2	1.8	0.79	0.57	0.64	0.85	1.3	2.8	1.2	1.0	1.7

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310750 CRYSTAL RIVER NEAR CRYSTAL RIVER, FL

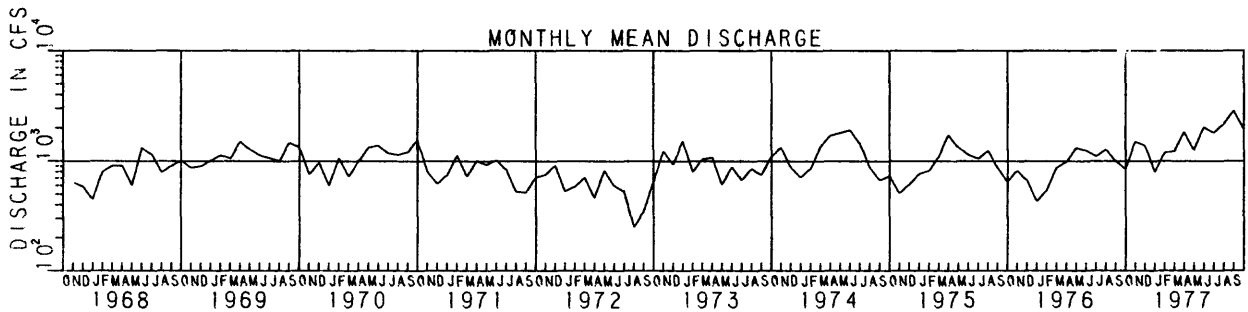
LOCATION.--Lat 28°54'17", long 82°38'13", in SE¼ sec.13, T.18 S., R.16 E., Citrus County, Hydrologic Unit 03100207, 0.1 mi (0.2 km) upstream from Salt River, 2.7 mi (4.3 km) west of town of Crystal River, and 4.0 mi (6.4 km) upstream from mouth.

PERIOD OF RECORD.--February 1964 to September 1977.

REMARKS.--Flow affected by tide. Negative discharges treated as zero values. No low-flow data below.

AVERAGE DISCHARGE.--13 years, 975 ft<sup>3</sup>/s (27.6 m<sup>3</sup>/s), 706,400 acre-ft/yr (871 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,340 ft<sup>3</sup>/s (123 m<sup>3</sup>/s) Sept. 11, 1964; maximum daily reverse flow, 1,520 ft<sup>3</sup>/s (43.0 m<sup>3</sup>/s) Sept. 10, 1964.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	212	4748	100.0	12	14.0	4	4525	95.3	24	300.0	171	4131	87.0
1	0.7	1	4536	95.5	13	18.0	2	4521	95.2	25	390.0	251	3960	83.4
2	1.0	1	4535	95.5	14	23.0	1	4519	95.2	26	500.0	416	3709	78.1
3	1.3	0	4534	95.5	15	30.0	6	4518	95.2	27	650.0	638	3293	69.3
4	1.7	1	4534	95.5	16	38.0	12	4512	95.0	28	840.0	829	2655	55.9
5	2.2	0	4533	95.5	17	50.0	17	4500	94.8	29	1100.0	741	1826	38.4
6	2.9	0	4533	95.5	18	64.0	23	4483	94.4	30	1400.0	610	1085	22.8
7	3.8	0	4533	95.5	19	83.0	26	4460	93.9	31	1800.0	361	475	10.0
8	4.9	0	4533	95.5	20	110.0	37	4434	93.4	32	2400.0	99	114	2.4
9	6.3	0	4533	95.5	21	140.0	57	4397	92.6	33	3100.0	15	15	.3
10	8.1	4	4533	95.5	22	180.0	81	4340	91.4	34	4000.0			
11	11.0	4	4529	95.4	23	230.0	128	4259	89.7					

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02310800 WITHLACOOCHEE RIVER NEAR EVA, FL

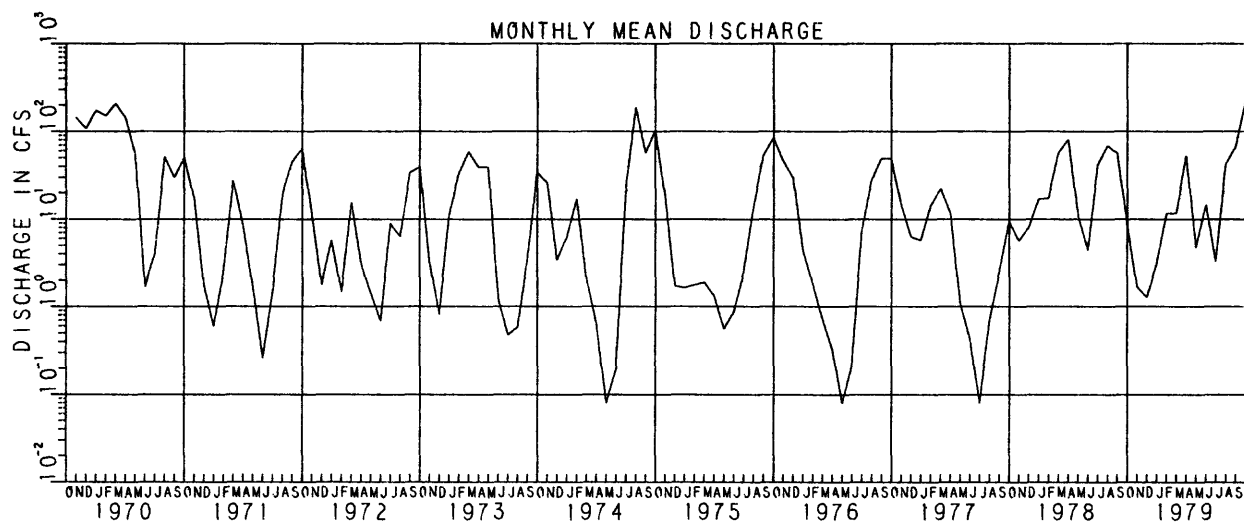
LOCATION.--Lat 28°21'38", long 81°49'08", in NW¼ sec.33, T.24 S., R.25 E., Polk County, Hydrologic Unit 03100208, at bridge on State Highway 33, 2.5 mi (4.0 km) north of Eva, 6.5 mi (10.5 km) upstream from small tributary, and 138 mi (222 km) upstream from mouth

DRAINAGE AREA.--130 mi<sup>2</sup> (337 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--July 1958 to September 1979.

AVERAGE DISCHARGE.--21 years, 53.5 ft<sup>3</sup>/s (1.515 m<sup>3</sup>/s), 5.59 in/yr (142 mm/yr), 38,760 acre-ft/yr (47.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,160 ft<sup>3</sup>/s (61.2 m<sup>3</sup>/s) Mar. 17, 1960; no flow for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	331	7670	100.00	12	0.85	230	6370	83.05	24	71.0	469	1483	19.34
1	0.01	20	7339	95.68	13	1.2	377	6140	80.05	25	100.0	404	1014	13.22
2	0.02	15	7319	95.42	14	1.8	407	5763	75.14	26	150.0	197	610	7.95
3	0.03	10	7304	95.23	15	2.6	316	5356	69.83	27	220.0	137	413	5.38
4	0.04	40	7294	95.10	16	3.7	416	5040	65.71	28	310.0	111	276	3.60
5	0.06	72	7254	94.58	17	5.4	362	4624	60.29	29	450.0	102	165	2.15
6	0.09	97	7182	93.64	18	7.8	312	4262	55.57	30	660.0	34	63	0.82
7	0.13	56	7085	92.37	19	11.0	381	3950	51.50	31	950.0	25	29	0.38
8	0.19	99	7029	91.64	20	16.0	501	3569	46.53	32	1400.0	3	4	0.05
9	0.28	139	6930	90.35	21	24.0	500	3068	40.00	33	2000.0	1	1	0.01
10	0.40	207	6791	88.54	22	34.0	516	2568	33.48					
11	0.58	214	6584	85.84	23	49.0	569	2052	26.75					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.28	0.36	0.15	0.00	0.00	0.00	0.18	1.0	1.8	0.40	0.17	0.28

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02310947 WITHLACOOCHEE RIVER NEAR CUMPRESSCO, FL

LOCATION.--Lat 28°18'42", long 82°03'22", in NE¼ sec.13, T.25 S., R.22 E., Pasco County, Hydrologic Unit 03100208, at bridge on State Highway 471, 0.6 mi (1.0 km) upstream from Gator Creek, 3.4 mi (5.5 km) south of Cumpressco, 5.8 mi (9.3 km) east of Richland, and 120 mi (193 km) upstream from mouth.

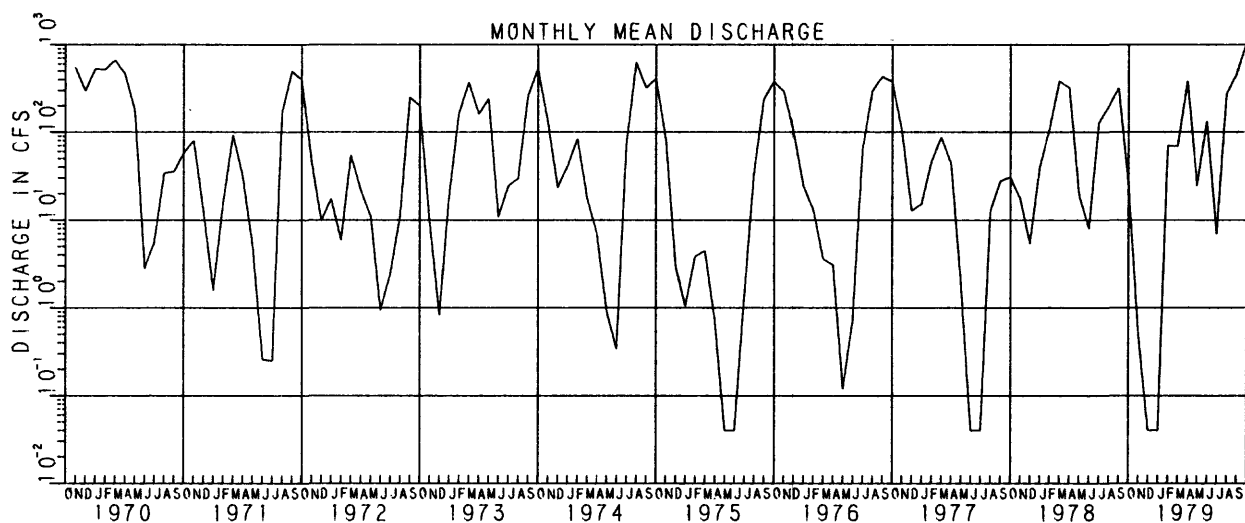
DRAINAGE AREA.--280 mi<sup>2</sup> (720 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--January 1967 to September 1979.

REMARKS.--Records are for flow of main channel only, which normally includes all the flow. Some interconnection with Gator Creek and some diversions to the north probably exist during periods of extreme high water.

AVERAGE DISCHARGE.--12 years, 147 ft<sup>3</sup>/s (4.163 m<sup>3</sup>/s), 106,500 acre-ft/yr (131 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,840 ft<sup>3</sup>/s (52.1 m<sup>3</sup>/s) Sept. 30, 1974; no flow for many days in most years; river dry at gage for many days in some years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	297	4383	100.00	12	0.82	77	3659	83.48	24	66.0	189	1606	36.64
1	0.01	11	4086	93.22	13	1.2	110	3582	81.72	25	96.0	203	1417	32.33
2	0.02	33	4075	92.97	14	1.7	158	3472	79.22	26	140.0	184	1214	27.70
3	0.03	12	4042	92.22	15	2.5	115	3314	75.61	27	200.0	187	1030	23.50
4	0.04	29	4030	91.95	16	3.5	151	3199	72.99	28	290.0	256	843	19.23
5	0.06	53	4001	91.28	17	5.1	160	3048	69.54	29	420.0	288	587	13.39
6	0.09	33	3948	90.08	18	7.4	153	2848	65.89	30	600.0	182	299	6.82
7	0.13	31	3915	89.32	19	11.0	192	2735	62.40	31	860.0	104	117	2.67
8	0.19	45	3884	88.62	20	15.0	233	2543	58.02	32	1200.0	11	13	0.30
9	0.27	54	3839	87.59	21	22.0	220	2310	52.70	33	1800.0	2	2	0.05
10	0.39	76	3785	86.36	22	32.0	235	2090	47.68					
11	0.57	50	3709	84.62	23	46.0	249	1855	42.32					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.60	0.42	0.26	0.00	0.00	0.00	0.02	9.2	8.0	0.00	0.00	0.02

## PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## WITHLACOOCHEE RIVER BASIN

02311000 WITHLACOOCHEE-HILLSBOROUGH OVERFLOW NEAR RICHLAND, FL

LOCATION.--Lat 28°16'16", long 82°05'53", in NW¼ sec.34, T.25 S., R.22 E., Pasco County, Hydrologic Unit 03100208, at bridge on U. S. Highway 98, 0.6 mi (1.0 km) south of channel of Withlacoochee River, 2.9 mi (4.7 km) east of Richland, 8.5 mi (13.7 km) southeast of Dade City, and 55 mi (88 km) upstream from mouth.

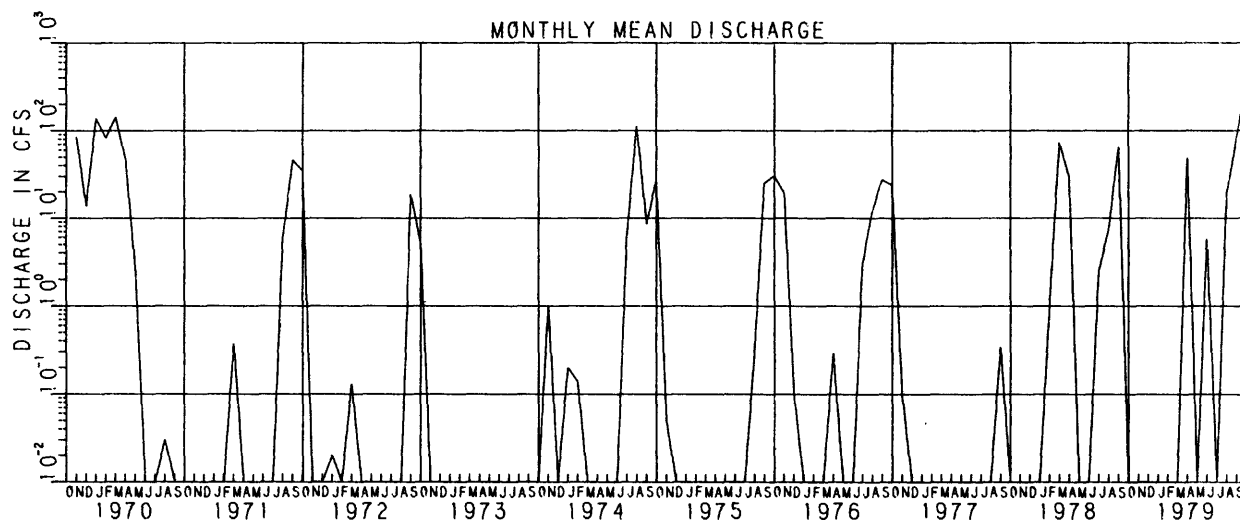
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1930 to September 1931; March 1960 to September 1979.

REMARKS.--Flow is uncontrolled natural diversion from the Withlacoochee River basin to the Hillsborough River basin.

AVERAGE DISCHARGE.--20 years (water years 1931, 1961-79), 21.3 ft<sup>3</sup>/s (0.603 m<sup>3</sup>/s), 15,430 acre-ft/yr (19.0 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft<sup>3</sup>/s (53.2 m<sup>3</sup>/s) Mar. 19, 1960; no flow for many days each year; channel dry at gage many days 1975, 1977, 1979.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.00	4615	6939	100.00	12	0.71	70	1921	27.68	24	51.0	148	755	10.88
1	0.01	9	2324	33.49	13	1.0	86	1851	26.68	25	72.0	119	607	8.75
2	0.02	5	2315	33.36	14	1.5	76	1765	25.44	26	100.0	143	488	7.03
3	0.03	2	2310	33.29	15	2.1	74	1689	24.34	27	150.0	119	345	4.97
4	0.04	18	2308	33.26	16	3.0	88	1615	23.27	28	210.0	109	226	3.26
5	0.06	7	2290	33.00	17	4.2	95	1527	22.01	29	300.0	79	117	1.69
6	0.08	19	2283	32.90	18	6.0	77	1432	20.64	30	430.0	25	38	0.55
7	0.12	16	2204	31.76	19	8.6	82	1355	19.53	31	610.0	2	13	0.19
8	0.17	64	2188	31.53	20	12.0	109	1273	18.35	32	870.0	5	5	0.07
9	0.25	39	2124	30.61	21	17.0	148	1164	16.77	33	1200.0	0	0	0.00
10	0.35	85	2085	30.05	22	25.0	107	1016	14.64					
11	0.50	79	2000	28.82	23	35.0	154	909	13.10					

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02312000 WITHLACOOCHEE RIVER AT TRILBY, FL

LOCATION.--Lat 28°28'47", long 82°10'40", in SE¼ sec.14, T.23 S., R.21 E., Hernando County, Hydrologic Unit 03100208, on right bank at downstream side of bridge on U.S. Highway 301, 1.6 mi (2.6 km) northeast of Trilby, 10 mi (16 km) upstream from Little Withlacoochee River, and 93 mi (150 km) upstream from mouth.

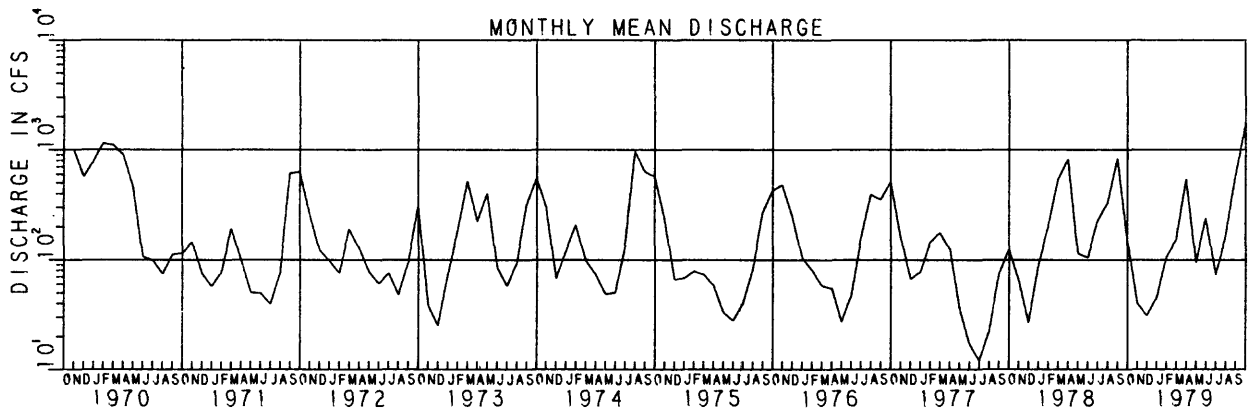
DRAINAGE AREA.--570 mi<sup>2</sup> (1,480 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--August 1928 to February 1929, February 1930 to September 1979.

REMARKS.--Records include considerable amount of waste water diverted from ground-water supplies during packing season by Evans and Pasco Packing Companies, in SW¼ sec.23, T.24 S., R.21 E., 5 mi (8 km) upstream from Withlacoochee River. No low-flow data below.

AVERAGE DISCHARGE.--49 years (water years 1931-79), 362 ft<sup>3</sup>/s (10.25 m<sup>3</sup>/s), 262,300 acre-ft/yr (323 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,840 ft<sup>3</sup>/s (250 m<sup>3</sup>/s) June 21, 1934; minimum observed, 7.3 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) June 27, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17897	100.0	12	77.0	1353	12485	69.8	24	1000.0	614	1644	9.1
1	7.3	21	17897	100.0	13	96.0	1071	11132	62.2	25	1300.0	412	1030	5.7
2	9.0	64	17876	99.9	14	120.0	1040	10061	56.2	26	1600.0	227	618	3.4
3	11.0	144	17812	99.5	15	150.0	797	9021	50.4	27	1900.0	202	391	2.1
4	14.0	134	17668	98.7	16	180.0	1114	8224	46.0	28	2400.0	86	189	1.0
5	17.0	215	17534	98.0	17	230.0	894	7110	39.7	29	3000.0	37	103	.5
6	21.0	401	17319	96.8	18	280.0	845	6216	34.7	30	3700.0	26	66	.3
7	26.0	604	16918	94.5	19	350.0	820	5371	30.0	31	4600.0	12	40	.2
8	33.0	675	16314	91.2	20	430.0	865	4551	25.4	32	5600.0	15	28	.1
9	41.0	793	15639	87.4	21	530.0	853	3686	20.6	33	7000.0	12	13	
10	50.0	1104	14846	83.0	22	660.0	675	2833	15.8	34	8700.0	1	1	
11	62.0	1257	13742	76.8	23	820.0	514	2158	12.1					

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02312180 LITTLE WITHLACOOCHEE RIVER NEAR TARRYTOWN, FL

LOCATION.--Lat 28°31'17", long 82°03'18", in NE¼ sec.1, T.23 S., R.22 E., Sumter County, Hydrologic Unit 03100208, at bridge on State Highway 471, 2.3 mi (3.7 km) south of Tarrytown, 3.1 mi (5.0 km) southwest of Linden, and 14 mi (23 km) upstream from mouth.

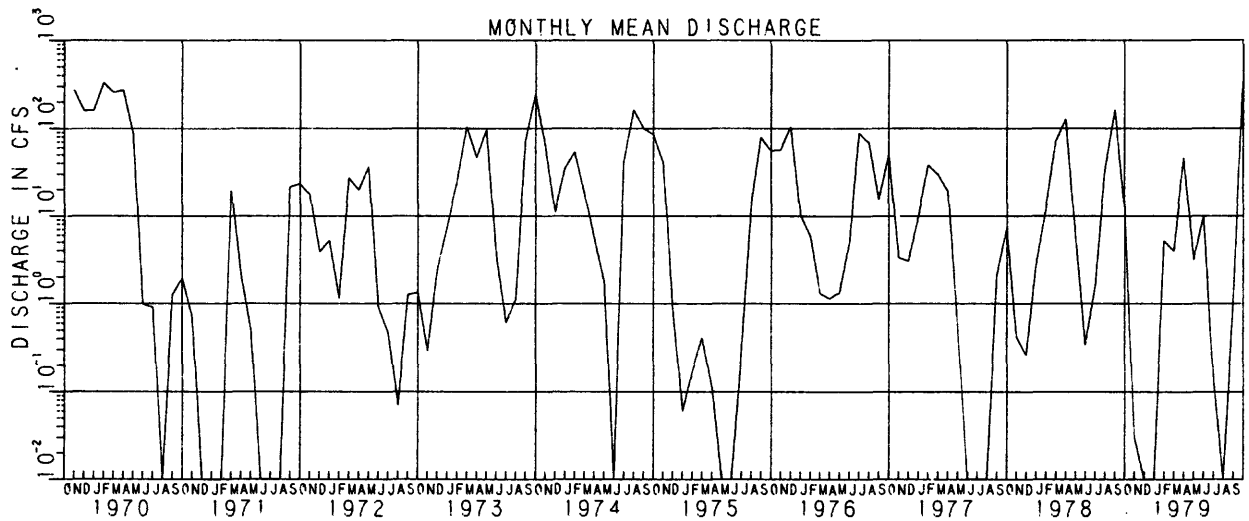
DRAINAGE AREA.--85 mi<sup>2</sup> (220 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1966 to September 1979.

REMARKS.--Above bankfull stage, discharge measurements are made along State Highway 471 and include all flow from 2.3 mi (3.7 km) north to 2.8 mi (4.5 km) south of gaging station.

AVERAGE DISCHARGE.--13 years, 41.4 ft<sup>3</sup>/s (1.172 m<sup>3</sup>/s), 6.61 in/yr (168 mm/yr), 29,990 acre-ft/yr (37.0 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,130 ft<sup>3</sup>/s (32.0 m<sup>3</sup>/s) Sept. 28, 1979; no flow for many days each year; river dry at gage for many days in 1967, 1968, 1971, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	942	4748	100.0	12	1.3	139	2798	58.9	24	89.0	183	682	14.3
1	0.0	69	3806	80.2	13	1.9	143	2659	56.0	25	130.0	163	499	10.5
2	0.0	68	3737	78.7	14	2.7	149	2516	53.0	26	180.0	159	336	7.0
3	0.0	29	3669	77.3	15	3.8	151	2367	49.9	27	260.0	102	177	3.7
4	0.1	75	3640	76.7	16	5.4	164	2216	46.7	28	360.0	53	75	1.5
5	0.1	37	3565	75.1	17	7.7	163	2052	43.2	29	520.0	17	22	.4
6	0.1	190	3528	74.3	18	11.0	170	1889	39.8	30	730.0	2	5	.1
7	0.2	94	3338	70.3	19	16.0	187	1719	36.2	31	1000.0	3	3	
8	0.3	142	3244	68.3	20	22.0	227	1532	32.3					
9	0.5	119	3102	65.3	21	31.0	216	1305	27.5					
10	0.7	72	2983	62.8	22	44.0	193	1089	22.9					
11	0.9	113	2911	61.3	23	63.0	214	896	18.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02312200 LITTLE WITHLACOOCHEE RIVER AT RERDELL, FL

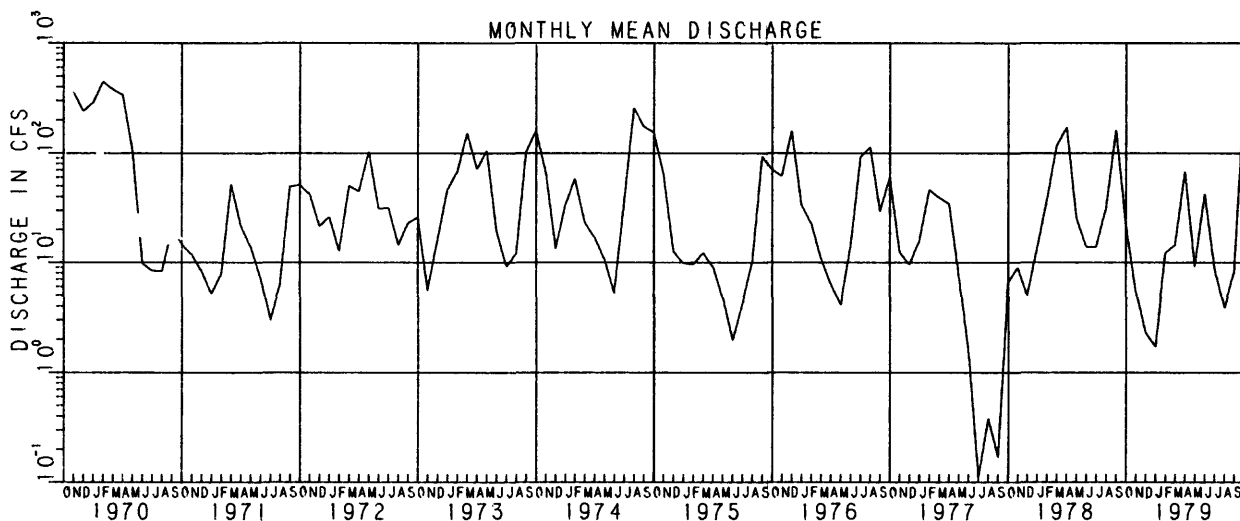
LOCATION.--Lat 28°34'21", long 82°09'20", in SE¼ sec.13, T.22 S., R.21 E., Hernando County, Hydrologic Unit 03100208, at bridge on U.S. Highway 301, 0.2 mi (0.3 km) north of Rerdel, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--145 mi<sup>2</sup> (376 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--July 1958 to September 1979.

AVERAGE DISCHARGE.--21 years, 86.9 ft<sup>3</sup>/s (2.461 m<sup>3</sup>/s), 8.14 in/yr (207 mm/yr), 62,960 acre-ft/yr (77.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,400 ft<sup>3</sup>/s (96.3 m<sup>3</sup>/s) Mar. 19, 1960; no flow for many days in 1961, 1962, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	93	7670	100.0	12	1.5	160	7034	91.7	24	120.0	361	1471	19.1
1	0.0	4	7577	98.8	13	2.2	250	6874	89.6	25	170.0	362	1110	14.4
2	0.0	4	7573	98.7	14	3.2	348	6624	86.4	26	250.0	320	748	9.7
3	0.1	11	7569	98.7	15	4.6	507	6276	81.8	27	360.0	198	428	5.5
4	0.1	8	7558	98.5	16	6.6	556	5769	75.2	28	520.0	121	230	2.9
5	0.1	48	7550	98.4	17	9.5	600	5213	68.0	29	740.0	72	109	1.4
6	0.2	41	7502	97.8	18	14.0	577	4613	60.1	30	1100.0	23	37	.4
7	0.3	46	7461	97.3	19	20.0	496	4036	52.6	31	1500.0	9	14	.1
8	0.4	40	7415	96.7	20	28.0	623	3540	46.2	32	2200.0	4	5	
9	0.5	118	7375	96.2	21	41.0	543	2917	38.0	33	3200.0	1	1	
10	0.7	152	7257	94.6	22	58.0	497	2374	31.0					
11	1.1	71	7105	92.6	23	84.0	406	1877	24.5					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2.4	2.8	3.1	0.72	0.13	0.00	0.45	0.79	3.1	2.3	1.4	1.4

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02312500 WITHLACOOCHEE RIVER AT CROOM, FL

LOCATION.--Lat 28°35'33", long 82°13'20", in NE¼ sec.8, T.22 S., R.21 E., Hernando County, Hydrologic Unit 03100208, at abandoned highway bridge, 0.4 mi (0.6 km) northwest of Croom, 2.3 mi (3.7 km) downstream from Little Withlacoochee River, 4.5 mi (7.2 km) southeast of Nobleton, and 77 mi (124 km) upstream from mouth.

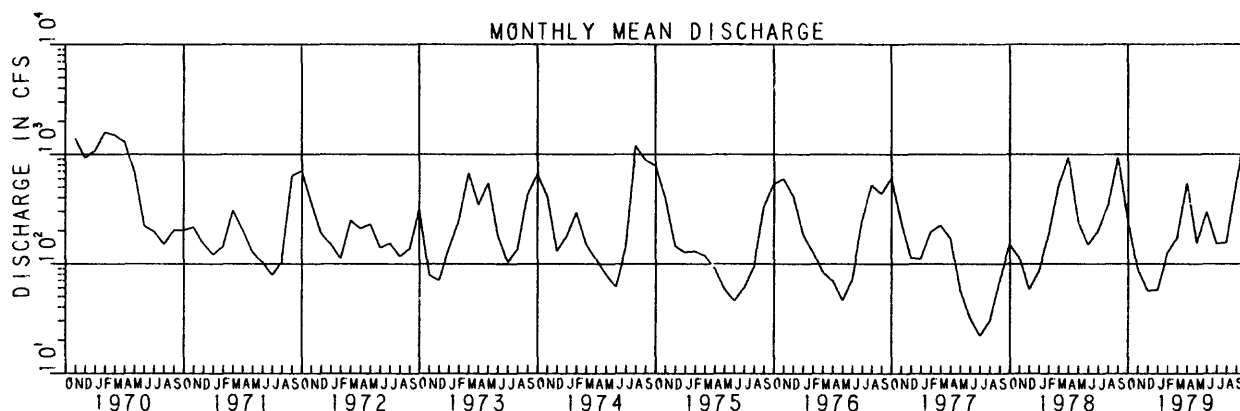
DRAINAGE AREA.--810 mi<sup>2</sup> (2,100 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1939 to September 1979.

REMARKS.--Records include considerable amount of waste water diverted from ground-water supplies during packing season by packing companies upstream. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--40 years, 472 ft<sup>3</sup>/s (13.37 m<sup>3</sup>/s), 342,000 acre-ft/yr (422 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,650 ft<sup>3</sup>/s (245 m<sup>3</sup>/s) Mar. 23, 1960; minimum, 14 ft<sup>3</sup>/s (0.40 m<sup>3</sup>/s) June 29, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14610	100.0	12	130.0	1116	10266	70.3	24	1300.0	306	1248	8.5
1	16.0	12	14610	100.0	13	160.0	833	9150	62.6	25	1500.0	428	942	6.4
2	19.0	45	14598	99.9	14	190.0	981	8317	56.9	26	1900.0	172	514	3.5
3	23.0	48	14553	99.6	15	230.0	948	7336	50.2	27	2300.0	102	342	2.3
4	28.0	48	14505	99.3	16	280.0	836	6388	43.7	28	2700.0	115	240	1.6
5	34.0	130	14457	99.0	17	340.0	753	5552	38.0	29	3300.0	56	125	.8
6	41.0	189	14327	98.1	18	410.0	676	4799	32.8	30	4000.0	37	69	.4
7	50.0	454	14138	96.8	19	490.0	686	4123	28.2	31	4800.0	14	32	.2
8	61.0	555	13684	93.7	20	590.0	650	3437	23.5	32	5800.0	6	18	.1
9	73.0	687	13129	89.9	21	720.0	570	2787	19.1	33	7100.0	10	12	
10	89.0	1033	12442	85.2	22	870.0	602	2217	15.2	34	8500.0	2	2	
11	110.0	1143	11409	78.1	23	1100.0	367	1615	11.1					

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOCHEE RIVER BASIN

02312640 JUMPER CREEK CANAL NEAR BUSHNELL, FL

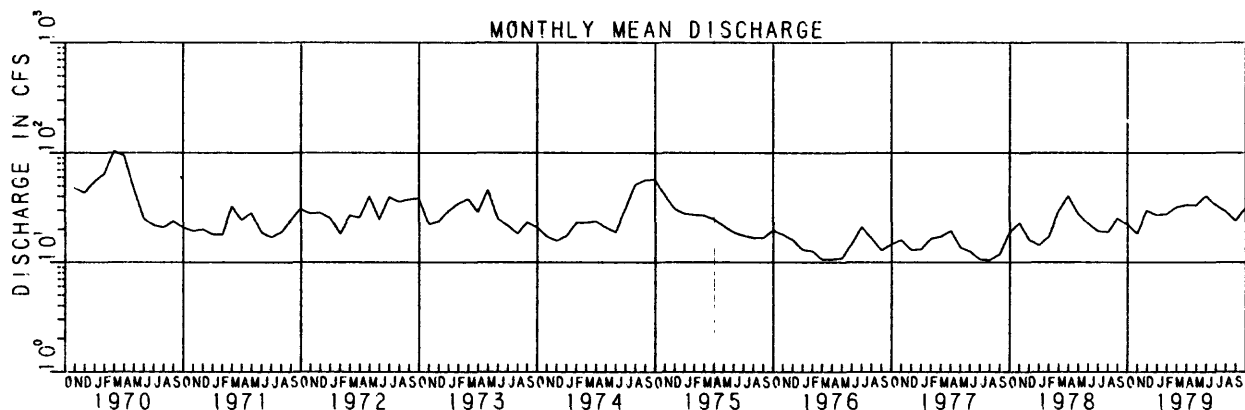
LOCATION.--Lat 28°41'45", long 82°06'34", in NE¼ sec.4, T.21 S., R.22 E., Sumter County, Hydrologic Unit 03100208, at bridge on State Highway 475, 2.2 miles (3.5 km) north of Bushnell, and 10 miles (16 km) upstream from mouth.

DRAINAGE AREA.--40 mi<sup>2</sup> (100 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--September 1963 to September 1979.

AVERAGE DISCHARGE.--16 years, 26.6 ft<sup>3</sup>/s (0.753 m<sup>3</sup>/s), 9.03 in/yr (229 mm/yr), 19,270 acre-ft/yr (23.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 227 ft<sup>3</sup>/s (6.43 m<sup>3</sup>/s) Feb. 3, 1970; minimum discharge, 1.7 ft<sup>3</sup>/s (0.048 m<sup>3</sup>/s) July 15, Oct. 20, 1978.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5844	100.0	12	17.0	519	4452	76.2	24	62.0	49	244	4.1
1	5.1	3	5844	100.0	13	19.0	602	3933	67.3	25	69.0	60	195	3.3
2	5.7	6	5841	99.9	14	21.0	505	3331	57.0	26	77.0	42	135	2.3
3	6.3	12	5835	99.8	15	23.0	659	2826	48.4	27	85.0	42	93	1.5
4	7.1	23	5823	99.6	16	26.0	494	2167	37.1	28	95.0	22	51	.8
5	7.9	52	5800	99.2	17	29.0	335	1673	28.6	29	110.0	8	29	.4
6	8.8	74	5748	98.4	18	32.0	300	1338	22.9	30	120.0	6	21	.3
7	9.8	100	5674	97.1	19	36.0	234	1038	17.8	31	130.0	5	15	.2
8	11.0	122	5574	95.4	20	40.0	208	804	13.8	32	150.0	3	10	.1
9	12.0	382	5452	93.3	21	45.0	141	596	10.2	33	160.0	2	7	.1
10	14.0	187	5070	86.8	22	50.0	103	455	7.8	34	180.0	5	5	
11	15.0	431	4883	83.6	23	55.0	108	352	6.0					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
13	13	14	11	9.8	9.6	11	12	12	12	12	12

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02312700 OUTLET RIVER AT PANACOOCHEE RETREATS, FL

LOCATION.--Lat 28°49'01", long 82°08'40", in SE¼ sec.19, T.19 S., R.22 E., Sumter County, Hydrologic Unit 03100208, 0.8 mi (1.3 km) north of outlet, 1.3 mi (2.1 km) north of Panacoochee Retreats, 2.0 mi (3.2 km) upstream from mouth, and 5.1 mi (8.2 km) northwest of town of Lake Panasoffkee.

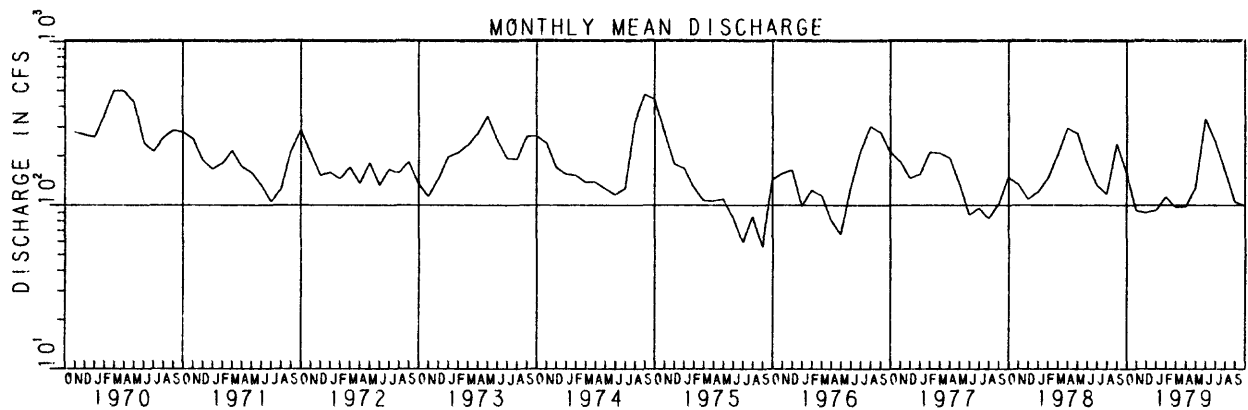
DRAINAGE AREA.--420 mi<sup>2</sup> (1,090 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1962 to September 1979.

REMARKS.-- Flow partially controlled at times by backwater from Withlacoochee River. Prior to 1962, flow partially controlled by small rock dams and at times during 1962-64 by a temporary sheet piling dam about 400 ft (120 m) downstream from bridge on State Highway 470.

AVERAGE DISCHARGE.--17 years, 190 ft<sup>3</sup>/s (5.381 m<sup>3</sup>/s), 6.14 in/yr (156 mm/yr), 137,700 acre-ft/yr (170 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 538 ft<sup>3</sup>/s (15.2 m<sup>3</sup>/s) Aug. 12, 13, 1965;  
no flow June 27 to July 15, 1963, temporary dam in place.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	19	6209	100.0	12	8.1	0	6183	99.6	24	80.0	320	5813	93.6
1	1.0	1	6190	99.7	13	9.8	1	6183	99.6	25	96.0	619	5493	88.4
2	1.2	0	6189	99.7	14	12.0	1	6182	99.6	26	120.0	644	4874	78.4
3	1.5	0	6189	99.7	15	14.0	1	6181	99.5	27	140.0	1042	4230	68.1
4	1.8	0	6189	99.7	16	17.0	8	6180	99.5	28	170.0	1133	3188	51.3
5	2.1	0	6189	99.7	17	21.0	27	6172	99.4	29	210.0	770	2055	33.0
6	2.6	1	6189	99.7	18	25.0	16	6145	99.0	30	250.0	549	1285	20.6
7	3.1	0	6188	99.7	19	31.0	18	6129	98.7	31	300.0	339	736	11.8
8	3.8	0	6188	99.7	20	37.0	43	6111	98.4	32	360.0	236	397	6.3
9	4.6	0	6188	99.7	21	45.0	19	6068	97.7	33	440.0	158	161	2.5
10	5.5	3	6188	99.7	22	54.0	37	6049	97.4	34	530.0	3	3	
11	6.7	2	6185	99.6	23	66.0	199	6012	96.8					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
105	102	88	79	70	52	76	54	78	76	73	90

## PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## WITHLACOOCHEE RIVER BASIN

02312720 WITHLACOOCHEE RIVER AT WYSONG DAM, AT CARLSON, FL

LOCATION.--Lat 28°49'23", long 82°11'00", in NW¼ sec.23, T.19 S., R.21 E., Sumter County, Hydrologic Unit 03100208, at Wysong Dam, at Carlson, 1.8 mi (2.9 km) downstream from Outlet River, 2.7 mi (4.3 km) southeast of Rutland, and 55 mi (88 km) upstream from mouth.

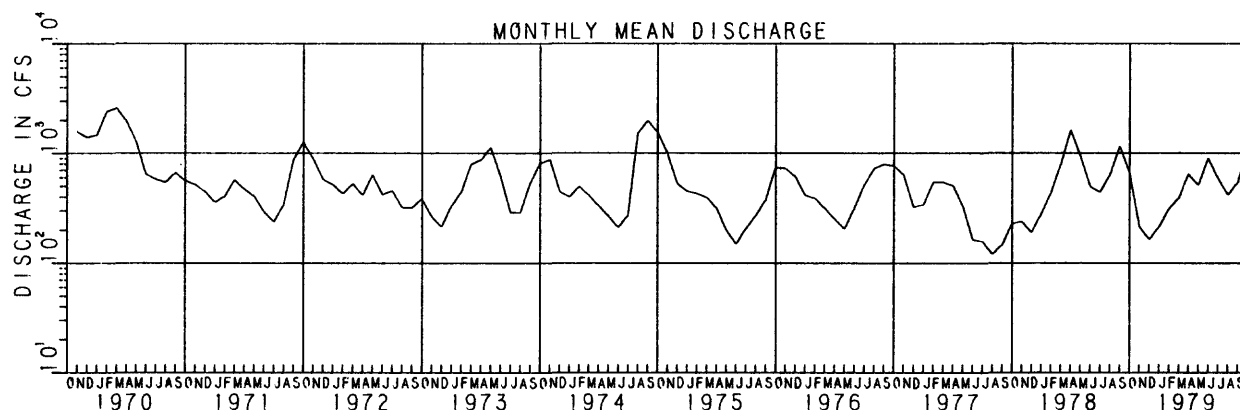
DRAINAGE AREA.--1,520 mi<sup>2</sup> (3,940 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--August 1965 to September 1979.

REMARKS.--Some regulation at station by manipulation of inflatable fabri-dam. Some diversions above station at times into Tsala Apopka Lake.

AVERAGE DISCHARGE.--14 years, 652 ft<sup>3</sup>/s (18.46 m<sup>3</sup>/s), 472,400 acre-ft/yr (582 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft<sup>3</sup>/s (79.6 m<sup>3</sup>/s) Feb. 4, 1970; minimum daily discharge, 85 ft<sup>3</sup>/s (2.41 m<sup>3</sup>/s) June 30, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5113	100.0	12	300.0	289	4077	79.7	24	1200.0	183	685	13.3
1	85.0	7	5113	100.0	13	340.0	333	3788	74.1	25	1400.0	67	502	9.8
2	95.0	19	5106	99.9	14	380.0	437	3455	67.6	26	1500.0	133	435	8.5
3	110.0	7	5087	99.5	15	430.0	370	3018	59.0	27	1700.0	123	302	5.9
4	120.0	46	5080	99.4	16	480.0	364	2648	51.8	28	1900.0	107	179	3.5
5	140.0	36	5034	98.5	17	540.0	388	2284	44.7	29	2200.0	28	72	1.4
6	150.0	106	4998	97.8	18	610.0	289	1896	37.1	30	2400.0	30	44	.8
7	170.0	99	4892	95.7	19	680.0	283	1607	31.4	31	2700.0	14	14	.2
8	190.0	145	4793	93.7	20	770.0	226	1324	25.9					
9	210.0	180	4648	90.9	21	860.0	156	1098	21.5					
10	240.0	200	4468	87.4	22	970.0	164	942	18.4					
11	270.0	191	4268	83.5	23	1100.0	93	778	15.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
310	289	235	167	119	137	150	214	284	214	178	231

## PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

## WITHLACOOCHEE RIVER BASIN

02313000 WITHLACOOCHEE RIVER NEAR HOLDER, FL

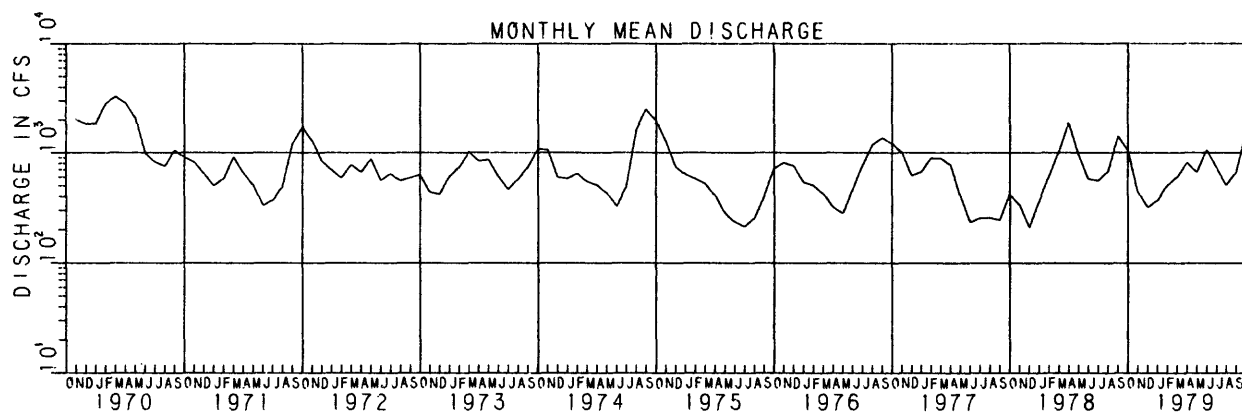
LOCATION.--Lat 28°59'19", long 82°20'59", in NW¼ sec.30, T.17 S., R.20 E., Marion County, Hydrologic Unit 03100208, at bridge on State Highway 200, 4.5 mi (7.2 km) northeast of Holder, and 38 mi (61 km) upstream from mouth.

DRAINAGE AREA.--1,825 mi<sup>2</sup> (4,730 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--August 1928 to February 1929, August 1931 to September 1979.

AVERAGE DISCHARGE.--48 years (water years 1932-79), 1,095 ft<sup>3</sup>/s (31.01 m<sup>3</sup>/s), 8.15 in/yr (207 mm/yr), 793,300 acre-ft/yr (978 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,660 ft<sup>3</sup>/s (245 m<sup>3</sup>/s) Apr. 5, 1960; minimum, 112 ft<sup>3</sup>/s (3.17 m<sup>3</sup>/s) June 18, 1956.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17532	100.0	12	480.0	1329	13614	77.7	24	2300.0	372	1683	9.5
1	113.0	16	17532	100.0	13	550.0	1250	12285	70.1	25	2600.0	367	1311	7.4
2	130.0	54	17516	99.9	14	620.0	1483	11035	62.9	26	3000.0	277	944	5.3
3	150.0	91	17462	99.6	15	710.0	1196	9552	54.5	27	3400.0	196	667	3.8
4	170.0	117	17371	99.1	16	810.0	1077	8356	47.7	28	3900.0	173	471	2.6
5	190.0	253	17254	98.4	17	920.0	1403	7279	41.5	29	4500.0	139	298	1.6
6	220.0	333	17001	97.0	18	1100.0	793	5876	33.5	30	5100.0	72	159	.9
7	250.0	304	16668	95.1	19	1200.0	1147	5083	29.0	31	5800.0	44	87	.4
8	280.0	395	16364	93.3	20	1400.0	825	3936	22.5	32	6600.0	26	43	.2
9	320.0	673	15969	91.1	21	1600.0	462	3111	17.7	33	7600.0	14	17	
10	370.0	726	15296	87.2	22	1800.0	403	2649	15.1	34	8600.0	3	3	
11	420.0	956	14570	83.1	23	2000.0	563	2246	12.8					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
38	336	297	236	194	206	271	349	513	406	366	360

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOCHEE RIVER BASIN

02313100 RAINBOW SPRINGS NEAR DUNNELLON, FL

LOCATION.--Lat 29°06'08", long 82°26'16", in SE¼ sec.12, T.16 S., R.18 E., Marion County, Hydrologic Unit 03100208, 3.9 miles (6.3 km) north of Dunnellon, and 5.7 miles (9.2 km) upstream from mouth.

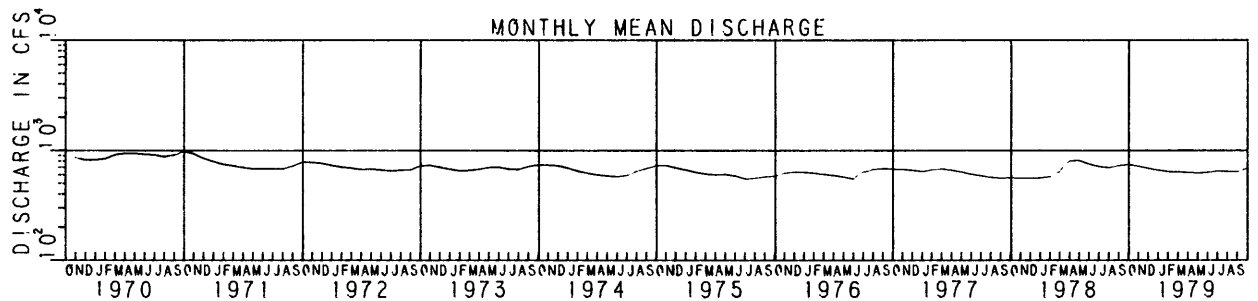
DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1964 to September 1979.

REMARKS.--Discharge measurements made at bridge on State Highway 484, 5 miles (8 km) downstream from head of springs; surface inflow between springs and measuring site is negligible except after heavy rains.

AVERAGE DISCHARGE.--14 years, (water years 1966-79), 720 ft³/s (20.39 m³/s), 465 mgd (1.760 hm³/day).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 1,230 ft³/s (34.8 m³/s) Oct. 12, 1964; minimum discharge measured, 487 ft³/s (13.8 m³/s) Oct. 3, 1932, Apr. 4, 1957.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5113	100.0	12	670.0	269	3255	63.7	24	850.0	101	723	14.0
1	538.0	22	5113	100.0	13	680.0	292	2986	58.4	25	860.0	153	622	12.0
2	550.0	58	5091	99.6	14	690.0	378	2694	52.7	26	880.0	57	469	9.0
3	560.0	185	5033	98.4	15	710.0	140	2316	45.3	27	900.0	136	412	8.0
4	570.0	87	4848	94.8	16	720.0	357	2176	42.6	28	920.0	46	276	5.0
5	580.0	117	4761	93.1	17	740.0	128	1819	35.6	29	930.0	129	230	4.0
6	590.0	230	4644	90.8	18	750.0	245	1691	33.1	30	950.0	24	101	1.0
7	610.0	125	4414	86.3	19	770.0	101	1446	28.3	31	970.0	36	77	1.0
8	620.0	146	4289	83.9	20	780.0	192	1345	26.3	32	990.0	13	41	0.0
9	630.0	212	4143	81.0	21	800.0	63	1153	22.6	33	1000.0	28	28	0.0
10	640.0	432	3931	76.9	22	810.0	140	1090	21.3					
11	660.0	244	3499	68.4	23	830.0	227	950	18.6					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV
598	601	591	578	559	564	585	600	611	625	621

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

WITHLACOOCHEE RIVER BASIN

02313230 WITHLACOOCHEE RIVER AT INGLIS DAM, NEAR DUNNELLON, FL

LOCATION.--Lat 29°00'35", long 82°37'01", in SW¼ sec.8, T.17 S., R.17 E., Levy County, Hydrologic Unit 03100208, at control structure of Inglis Dam, 3.5 mi (5.6 km) southeast of Inglis, 9.8 mi (15.8 km) west of Dunnellon, and 11 mi (18 km) upstream from mouth.

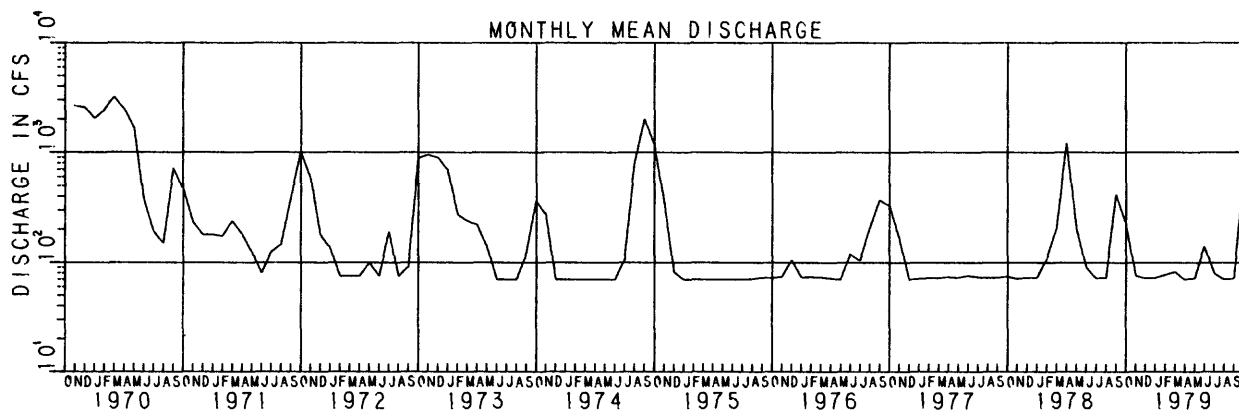
DRAINAGE AREA.--2,020 mi<sup>2</sup> (5,230 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1969 to September 1979.

REMARKS.--Records include flow of springs, approximately 70 ft<sup>3</sup>/s (1.98 m<sup>3</sup>/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, for maintaining flow in old river channel, through Withlacoochee River Bypass Channel. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--10 years, 347 ft<sup>3</sup>/s (9.827 m<sup>3</sup>/s), 251,400 acre-ft/yr (310 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 3,980 ft<sup>3</sup>/s (113 m<sup>3</sup>/s) July 26, 1966; gates closed and flow consists of leakage, about 70 ft<sup>3</sup>/s (1.98 m<sup>3</sup>/s) for all or part of some days in most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	3652	100.0	12	280.0	59	864	23.7	24	1300.0	7	286	7.8
1	70.0	2087	3652	100.0	13	320.0	35	805	22.0	25	1400.0	37	279	7.6
2	79.0	141	1565	42.9	14	360.0	94	770	21.1	26	1600.0	22	242	6.6
3	90.0	58	1424	39.0	15	410.0	22	676	18.5	27	1800.0	34	220	6.0
4	100.0	15	1366	37.4	16	460.0	42	654	17.9	28	2100.0	46	186	5.0
5	120.0	10	1351	37.0	17	520.0	57	612	16.8	29	2400.0	57	140	3.8
6	130.0	53	1341	36.7	18	590.0	79	555	15.2	30	2700.0	37	83	2.2
7	150.0	75	1288	35.3	19	670.0	26	476	13.0	31	3000.0	39	46	1.2
8	170.0	184	1213	33.2	20	760.0	57	450	12.3	32	3400.0	7	7	.1
9	190.0	23	1029	28.2	21	860.0	51	393	10.8					
10	220.0	38	1006	27.5	22	980.0	13	342	9.4					
11	250.0	104	968	26.5	23	1100.0	43	329	9.0					

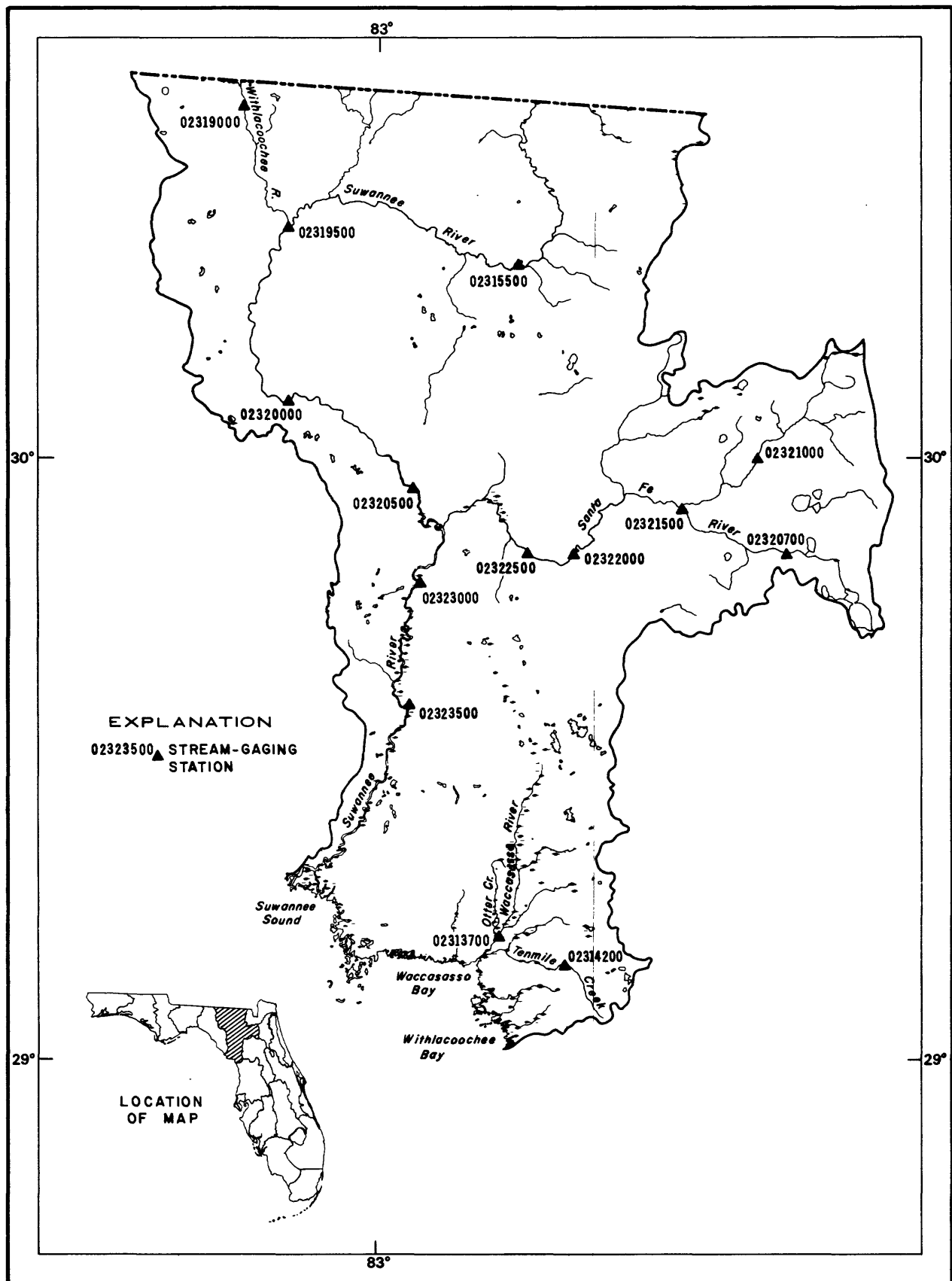


Figure 14.--Stations in the Waccasassa and Suwannee River basins.

SUWANNEE AND AUCILLA RIVERS

WACCASASSA RIVER AND COASTAL AREA BETWEEN WITHLACOOCHEE AND SUWANNEE RIVERS

02313700 WACCASASSA RIVER NEAR GULF HAMMOCK, FL

LOCATION.--Lat 29°12'14", long 82°46'09", in SW¼ sec.2, T.15 S., R.15 E., Levy County, Hydrologic Unit 03110101, at abandoned railroad grade, 0.5 mi (0.8 km) upstream from Otter Creek, 3.6 mi (5.8 km) upstream from mouth, and 4 mi (6 km) southwest of Gulf Hammock.

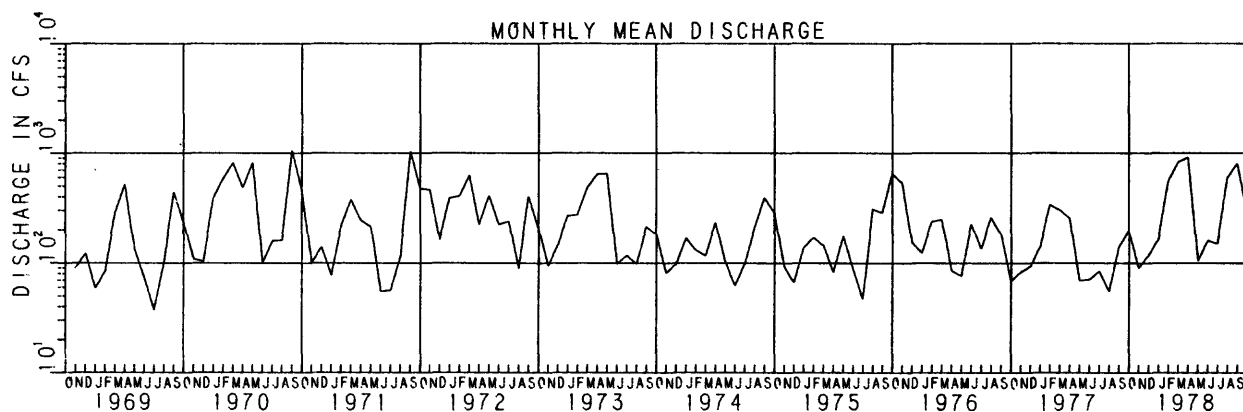
DRAINAGE AREA.--480 mi² (1,240 km²), approximately, including that of Otter Creek.

PERIOD OF RECORD.--March 1963 to September 1978.

REMARKS.--Flow affected by tide. Records include flow of Otter Creek. No low-flow data listed below.

AVERAGE DISCHARGE.--15 years, 315 ft³/s (8.921 m³/s) 228,200 acre-ft/yr (281 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s (346 m³/s) Sept. 12, 1964; maximum daily reverse flow, 1,810 ft³/s (51.3 m³/s) June 9, 1966.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	111	5479	100.0	12	7.5	22	5321	97.1	24	390.0	459	1293	23.5
1	0.2	1	5368	98.0	13	10.0	33	5299	96.7	25	550.0	302	834	15.2
2	0.3	0	5367	98.0	14	15.0	64	5266	96.1	26	760.0	256	532	9.7
3	0.4	1	5367	98.0	15	20.0	107	5202	94.9	27	1100.0	138	276	5.0
4	0.5	1	5366	97.9	16	28.0	187	5095	93.0	28	1500.0	94	138	2.5
5	0.7	2	5365	97.9	17	39.0	250	4908	89.6	29	2100.0	23	44	.8
6	1.0	1	5363	97.9	18	54.0	445	4658	85.0	30	2900.0	11	21	.3
7	1.4	6	5362	97.9	19	76.0	640	4213	76.9	31	4000.0	3	10	.1
8	2.0	3	5356	97.8	20	110.0	576	3573	65.2	32	5500.0	4	7	.1
9	2.8	6	5353	97.7	21	150.0	581	2997	54.7	33	7700.0	2	3	
10	3.9	14	5347	97.6	22	200.0	612	2416	44.1	34	11000.0	1	1	
11	5.4	12	5333	97.3	23	280.0	511	1804	32.9					

SUWANNEE AND AUCILLA RIVERS  
WACCASASSA RIVER AND COASTAL AREA BETWEEN WITHLACOOCHEE AND SUWANNEE RIVERS

02314200 TENMILE CREEK AT LEBANON STATION, FL

LOCATION.--Lat 29°09'39", long 82°38'21", in SE¼ sec.24, T.15 S., R.16 E., Levy County, Hydrologic Unit 03110101, at side of bridge on U.S. Highways 19 and 98, just downstream from North Prong Tenmile Creek, 0.2 mi (0.3 km) south of Lebanon Station, 9.4 mi (15.1 km) upstream from mouth, and 13 mi (21 km) northwest of Dunnellon.

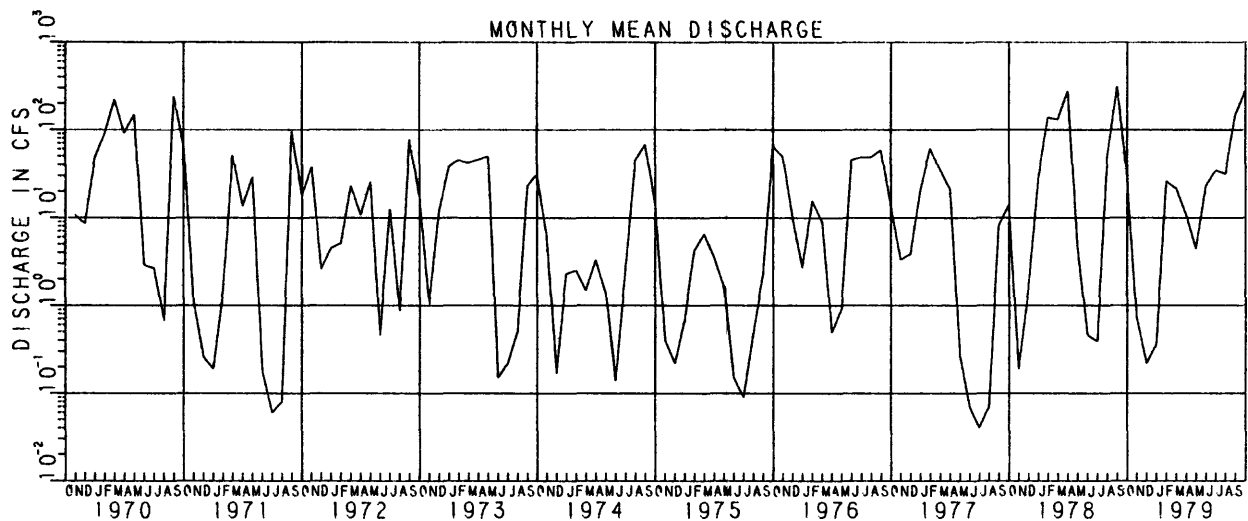
DRAINAGE AREA.--26 mi<sup>2</sup> (67 km<sup>2</sup>), approximately; 34 mi<sup>2</sup> (88 km<sup>2</sup>), approximately, includes that of Horse Hole Creek.

PERIOD OF RECORD.--October 1963 to September 1979.

REMARKS.--Records do not include considerable amount of water diverted naturally above station into Horse Hole Creek basin  
No low-flow data listed below.

AVERAGE DISCHARGE.--16 years, 39.5 ft<sup>3</sup>/s (1.119 m<sup>3</sup>/s), 28,618 acre-ft/yr (35.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,290 ft<sup>3</sup>/s (121 m<sup>3</sup>/s) Sept. 11, 1964; no flow for many days in 1964, 1967, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	56	5844	100.0	12	0.9	204	3928	67.2	24	89.0	187	653	11.1
1	0.0	6	5788	99.0	13	1.4	181	3724	63.7	25	130.0	169	466	7.9
2	0.0	23	5782	98.9	14	2.0	172	3543	60.6	26	190.0	139	297	5.0
3	0.0	14	5759	98.5	15	2.9	225	3371	57.7	27	280.0	77	158	2.7
4	0.0	87	5745	98.3	16	4.3	269	3146	53.8	28	410.0	46	81	1.3
5	0.1	184	5658	96.8	17	6.3	335	2877	49.2	29	600.0	20	35	.5
6	0.1	46	5474	93.7	18	9.2	303	2542	43.5	30	870.0	8	15	.2
7	0.1	478	5428	92.9	19	13.0	392	2239	38.3	31	1300.0	2	7	.1
8	0.2	408	4950	84.7	20	20.0	373	1847	31.6	32	1900.0	3	5	
9	0.3	166	4542	77.7	21	29.0	302	1474	25.2	33	2700.0	2	2	
10	0.4	208	4376	74.9	22	42.0	273	1172	20.1					
11	0.6	240	4168	71.3	23	61.0	246	899	15.4					

# SUWANNEE AND AUCILLA RIVERS

## SUWANNEE RIVER BASIN ABOVE WITHLACOCHEE RIVER EXCLUDING ALAPAHA RIVER BASIN

02315500 SUWANNEE RIVER AT WHITE SPRINGS, FL

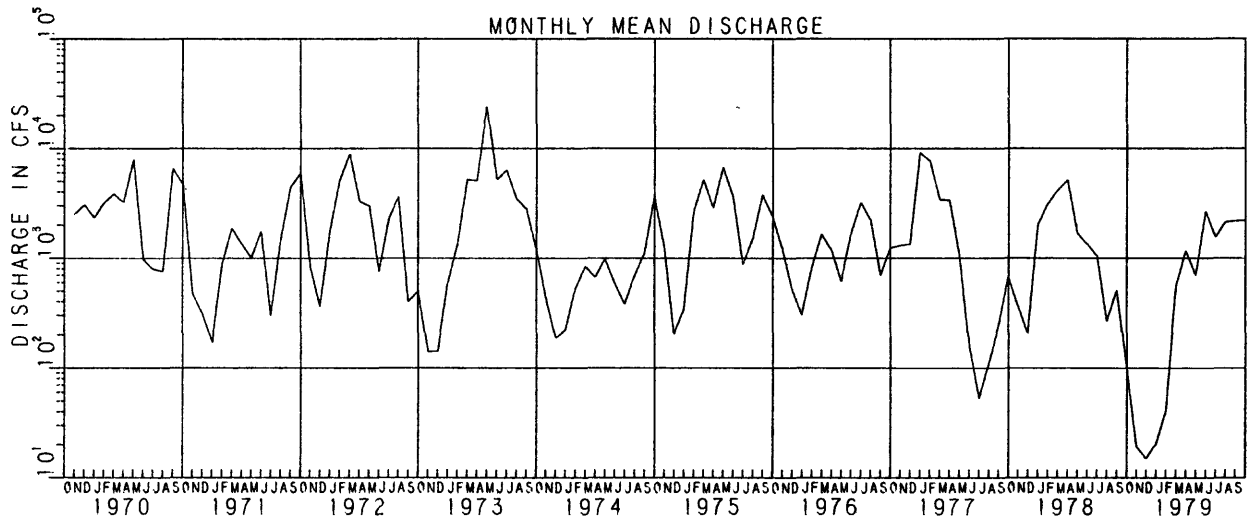
LOCATION.--Lat 30°19'32", long 82°44'18", in SW¼ sec.8, T.2 S., R.16 E., Columbia County, Hydrologic Unit 03110201, at bridge on U.S. Highway 41, 1.0 mi (1.6 km) southeast of White Springs and 171 mi (275 km) upstream from mouth.

DRAINAGE AREA.--2,430 mi<sup>2</sup> (6,290 km<sup>2</sup>) approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--May 1906 to December 1908, February 1927 to September 1979.

AVERAGE DISCHARGE.--54 years, 1,861 ft<sup>3</sup>/s (52.70 m<sup>3</sup>/s), 10.40 in/yr (264 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,100 ft<sup>3</sup>/s (1,080 m<sup>3</sup>/s) Apr. 10, 1973; minimum, 4.8 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Nov. 15, 1931.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	19724	100.0	12	95.0	741	16753	84.9	24	2500.0	1114	4733	23.9
1	4.7	13	19724	100.0	13	130.0	608	16012	81.2	25	3300.0	1117	3619	18.3
2	6.3	58	19711	99.9	14	160.0	930	15404	78.1	26	4300.0	843	2502	12.6
3	8.3	87	19653	99.6	15	220.0	767	14474	73.4	27	5600.0	686	1659	8.4
4	11.0	215	19566	99.2	16	280.0	993	13707	69.5	28	7400.0	541	973	4.9
5	14.0	295	19351	98.1	17	370.0	1097	12714	64.5	29	9700.0	244	432	2.1
6	19.0	292	19056	96.6	18	490.0	1011	11617	58.9	30	13000.0	94	188	.9
7	25.0	229	18764	95.1	19	640.0	1143	10606	53.8	31	17000.0	59	94	.4
8	32.0	313	18535	94.0	20	840.0	1084	9463	48.0	32	22000.0	22	35	.1
9	42.0	489	18222	92.4	21	1100.0	1102	8379	42.5	33	29000.0	12	13	
10	55.0	481	17733	89.9	22	1400.0	1370	7277	36.9	34	38000.0	1	1	
11	73.0	499	17252	87.5	23	1900.0	1174	5907	29.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
47	69	114	73	30	24	53	83	74	35	25	28

# SUWANNEE AND AUCILLA RIVERS

## WITHLACOOCHEE RIVER BASIN

02319000 WITHLACOOCHEE RIVER NEAR PINETTA, FL

LOCATION.--Lat 30°35'43", long 83°15'35", in NW¼ sec.7, T.2 N., R.11 E., Madison County, Hydrologic Unit 03110203, 30 ft (9 m) downstream from bridge, 0.1 mi (0.2 km) downstream from small tributary, 0.3 mi (0.5 km) west of Bellville, 5.6 mi (9.0 km) east of Pinetta, and 22 mi (35 km) upstream from mouth.

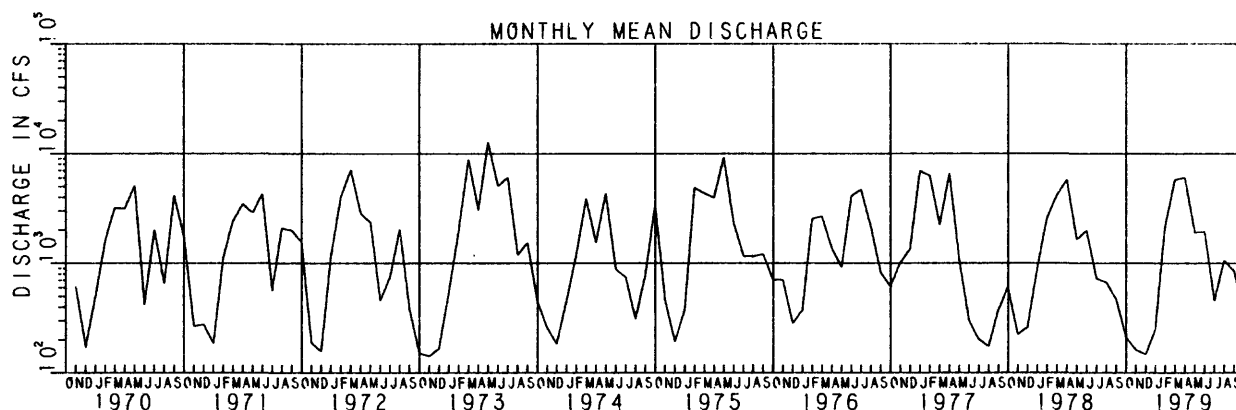
DRAINAGE AREA.--2,120 mi<sup>2</sup> (5,490 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1931 to September 1979.

AVERAGE DISCHARGE.--48 years, 1,674 ft<sup>3</sup>/s (47.41 m<sup>3</sup>/s), 10.73 in/yr (272 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft<sup>3</sup>/s (2,250 m<sup>3</sup>/s) Apr. 5, 1948; minimum, 70 ft<sup>3</sup>/s (1.98 m<sup>3</sup>/s) Aug. 23, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1928 had a discharge at 53,600 ft<sup>3</sup>/s (1,520 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17532	100.0	12	720.0	793	8260	47.1	24	8800.0	222	493	2.8
1	73.0	198	17532	100.0	13	890.0	830	7467	42.6	25	11000.0	84	271	1.5
2	90.0	437	17334	98.9	14	1100.0	700	6637	37.9	26	13000.0	75	187	1.0
3	110.0	942	16897	96.4	15	1300.0	1181	5937	33.9	27	16000.0	68	112	.6
4	140.0	946	15955	91.0	16	1700.0	651	4756	27.1	28	20000.0	26	44	.2
5	170.0	1084	15009	85.6	17	2000.0	743	4105	23.4	29	25000.0	13	18	.1
6	210.0	872	13925	79.4	18	2500.0	645	3362	19.2	30	31000.0	1	5	
7	250.0	1103	13053	74.5	19	3100.0	595	2717	15.5	31	38000.0	0	4	
8	310.0	1061	11950	68.2	20	3800.0	537	2122	12.1	32	47000.0	2	4	
9	390.0	932	10889	62.1	21	4700.0	424	1585	9.0	33	57000.0	1	2	
10	480.0	823	9957	56.8	22	5800.0	376	1161	6.6	34	71000.0	1	1	
11	590.0	874	9134	52.1	23	7100.0	292	785	4.5					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
144	276	399	269	177	144	139	147	116	99	104	97

# SUWANNEE AND AUCILLA RIVERS

## SUWANNEE RIVER BELOW WITHLACOOCHEE RIVER EXCLUDING SANTA FE RIVER BASIN

02319500 SUWANNEE RIVER AT ELLAVILLE, FL

LOCATION.--Lat 30°23'04", long 83°10'19", in NE¼ sec.24, T.1 S., R.11 E., Suwannee County, Hydrologic Unit 03110205, at Ellaville, 100 ft (30 m) upstream from Seaboard Air Line Railroad bridge, 200 ft (61 m) downstream from Withlacoochee River, 900 ft (274 m) upstream from bridge on U.S. Highway 90, and 127 mi (204 km) upstream from mouth.

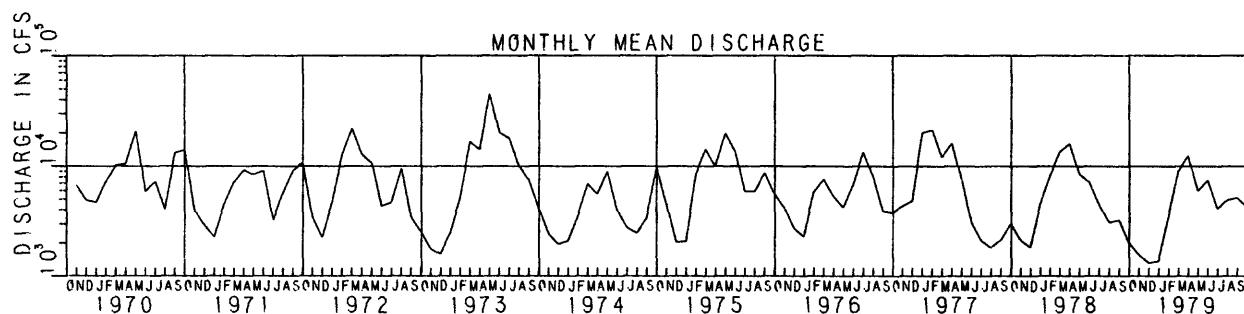
DRAINAGE AREA.--6,970 mi<sup>2</sup> (18,052 km<sup>2</sup>), approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--January 1927 to September 1979.

REMARKS.--Since Nov. 7, 1953, slight regulation at low water caused by diversions above control 0.7 mi (1.1 km) downstream from gage by a steam-electric powerplant for cooling of condensers. Total diverted flow is returned to river below control. Records include flow of large spring on left bank about 200 ft (61 m) downstream; spring flow may reverse during high stages.

AVERAGE DISCHARGE.--52 years, 6,543 ft<sup>3</sup>/s (185.3 m<sup>3</sup>/s), 12.75 in/yr (324 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,300 ft<sup>3</sup>/s (2,700 m<sup>3</sup>/s) Apr. 7,8, 1948; minimum, 882 ft<sup>3</sup>/s (25.0 m<sup>3</sup>/s) July 17, 1955.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	18993	100.0	12	4200.0	894	9439	49.7	24	23000.0	188	642	3.3
1	890.0	165	18993	100.0	13	4800.0	1092	8545	45.0	25	26000.0	189	454	2.3
2	1000.0	537	18828	99.1	14	5600.0	1070	7453	39.2	26	30000.0	127	265	1.3
3	1200.0	685	18291	96.3	15	6400.0	960	6383	33.6	27	35000.0	53	138	.7
4	1400.0	660	17606	92.7	16	7400.0	931	5423	28.6	28	40000.0	38	85	.4
5	1600.0	951	16946	89.2	17	8500.0	797	4492	23.7	29	46000.0	17	47	.2
6	1800.0	1268	15995	84.2	18	9800.0	522	3695	19.5	30	54000.0	6	30	.1
7	2100.0	1122	14727	77.5	19	11000.0	780	3173	16.7	31	62000.0	9	24	.1
8	2400.0	1226	13605	71.6	20	13000.0	589	2393	12.6	32	71000.0	10	15	
9	2800.0	949	12379	65.2	21	15000.0	431	1804	9.5	33	82000.0	3	5	
10	3200.0	999	11430	60.2	22	17000.0	463	1373	7.2	34	94000.0	2	2	
11	3700.0	992	10431	54.9	23	20000.0	268	910	4.8					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1,220	1,620	2,216	2,051	1,561	1,412	1,486	1,689	1,475	1,253	1,192	1,091

# SUWANNEE AND AUCILLA RIVERS

SUWANNEE RIVER BELOW WITHLACOCHEE RIVER EXCLUDING SANTA FE RIVER BASIN

02320000 SUWANNEE RIVER AT LURAVILLE, FL

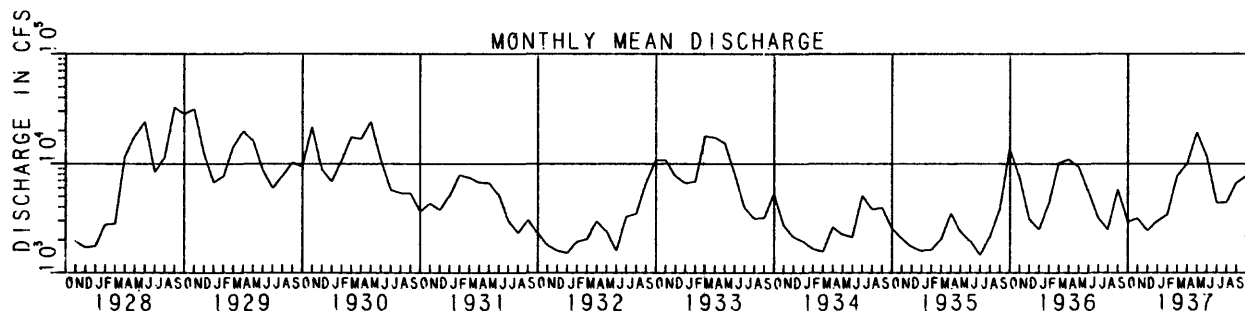
LOCATION.--Lat 30°05'59", long 83°10'18", in NE¼ sec.36, T.4 S., R.11 E., Suwannee County, Hydrologic Unit 03110205, at bridge on State Highway 51, 1.6 mi (2.6 km) south of Luraville, 10.8 mi (17.4 km) south of Dowling Park and 97 mi (156 km) upstream from mouth.

DRAINAGE AREA.--7,330 mi<sup>2</sup> (18,980 km) approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--February 1927 to December 1937.

AVERAGE DISCHARGE.--10 years, 7165 ft<sup>3</sup>/sec (203 m<sup>3</sup>/s), 12.16 in/yr (309 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharges 66,000 ft<sup>3</sup>/s (915 m<sup>3</sup>/s) Aug. 24, 1928; minimum, 1,290 ft<sup>3</sup>/s (40.5 m<sup>3</sup>/s) June 25-28, July 1-2, 1935.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	3653	100.0	12	4800.0	131	1838	50.3	24	20000.0	41	216	5.9
1	1290.0	68	3653	100.0	13	5400.0	202	1707	46.7	25	22000.0	56	175	4.7
2	1500.0	127	3585	98.1	14	6100.0	200	1505	41.2	26	25000.0	58	119	3.2
3	1600.0	236	3458	94.7	15	6800.0	204	1305	35.7	27	28000.0	23	61	1.6
4	1800.0	201	3222	88.2	16	7700.0	159	1101	30.1	28	32000.0	16	38	1.0
5	2100.0	213	3021	82.7	17	8700.0	138	942	25.8	29	36000.0	9	22	.6
6	2300.0	162	2808	76.9	18	9700.0	97	804	22.0	30	41000.0	2	13	.3
7	2600.0	137	2646	72.4	19	11000.0	79	707	19.4	31	46000.0	2	11	.3
8	3000.0	208	2509	68.7	20	12000.0	139	628	17.2	32	52000.0	3	9	.2
9	3300.0	210	2301	63.0	21	14000.0	113	489	13.4	33	58000.0	3	6	.1
10	3800.0	136	2091	57.2	22	16000.0	108	376	10.3	34	65000.0	3	3	
11	4200.0	117	1955	53.5	23	18000.0	52	268	7.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DE
1,391	1,435	2,270	1,773	1,518	1,522	1,644	2,467	1,913	1,470	1,451	1,391

# SUWANNEE AND AUCILLA RIVERS

SUWANNEE RIVER BASIN BELOW WITHLACOCHEE RIVER EXCLUDING SANTA FE RIVER BASIN

02320500 SUWANNEE RIVER AT BRANFORD, FL

LOCATION.--Lat 29°57'20". long 82°55'40", in NE¼ sec.20, T.6 S., R.14 E., Suwannee County, Hydrologic Unit 03110205, at bridge on U.S. Highway 27 at Branford, 10.8 mi (17.4 km) upstream from Santa Fe River and 75 mi (121 km) upstream from mouth.

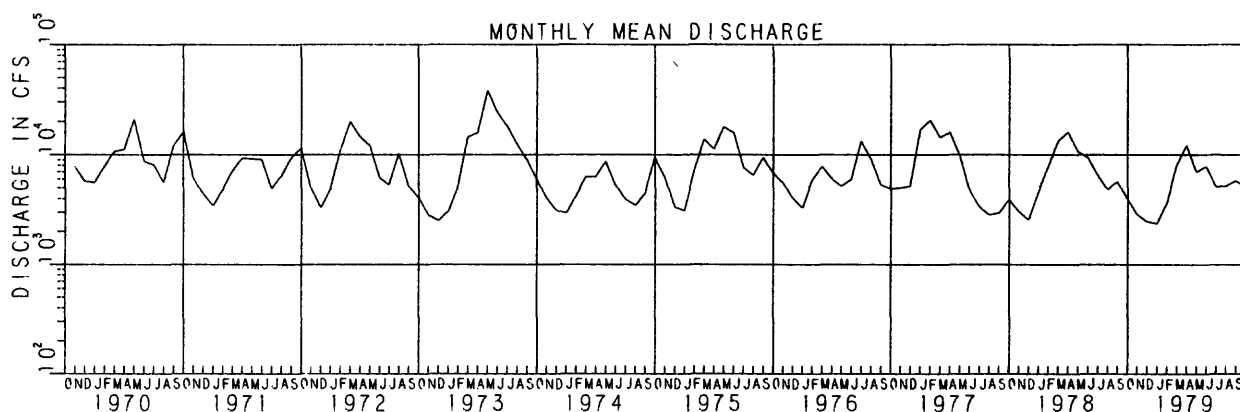
DRAINAGE AREA.--7,880 mi<sup>2</sup> (20,410 km<sup>2</sup>), includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--July 1931 to September 1979.

AVERAGE DISCHARGE.--48 years, 6,973 ft<sup>3</sup>/s (197.5 m<sup>3</sup>/s), 12.02 in/yr (305.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,900 ft<sup>3</sup>/s (2,380 m<sup>3</sup>/s) Apr. 11, 1948; minimum, 1,530 ft<sup>3</sup>/s (43.3 m<sup>3</sup>/s) July 1, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1928 had a discharge, of 65,000 ft<sup>3</sup>/s (1,840 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17532	100.0	12	5700.0	1232	7825	44.6	24	24000.0	146	344	1.9
1	1530.0	235	17532	100.0	13	6500.0	951	6593	37.6	25	27000.0	96	198	1.1
2	1700.0	394	17297	98.7	14	7300.0	791	5642	32.2	26	31000.0	51	102	.5
3	1900.0	700	16903	96.4	15	8200.0	874	4851	27.7	27	35000.0	19	51	.2
4	2200.0	891	16203	92.4	16	9300.0	436	3977	22.7	28	39000.0	6	32	.1
5	2500.0	1011	15312	87.3	17	10000.0	914	3541	20.2	29	44000.0	8	26	.1
6	2800.0	1092	14301	81.6	18	12000.0	413	2627	15.0	30	50000.0	8	18	.1
7	3100.0	1131	13209	75.3	19	13000.0	727	2214	12.6	31	56000.0	3	10	
8	3500.0	1195	12078	68.9	20	15000.0	398	1487	8.5	32	63000.0	1	7	
9	4000.0	875	10883	62.1	21	17000.0	296	1089	6.2	33	71000.0	5	6	
10	4500.0	1148	10008	57.1	22	19000.0	329	793	4.5	34	81000.0	1	1	
11	5100.0	1035	8860	50.5	23	22000.0	120	464	2.6					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1,892	2,263	2,847	2,928	2,424	2,285	2,321	2,544	2,372	2,106	1,994	1,864

# SUWANNEE AND AUCILLA RIVERS

## SANTA FE RIVER BASIN

02320700 SANTA FE RIVER NEAR GRAHAM, FL

LOCATION.--Lat 29°50'46", long 82°13'11", in NE¼ sec.32 T.7 S., R.21 E., Alachua County, Hydrologic Unit 03110206, at bridge on State Highway 225, 1.0 mi (1.6 km) south of Graham, 1.5 mi (2.4 km) upstream from Sampson River, and 71 mi (114 km) upstream from mouth.

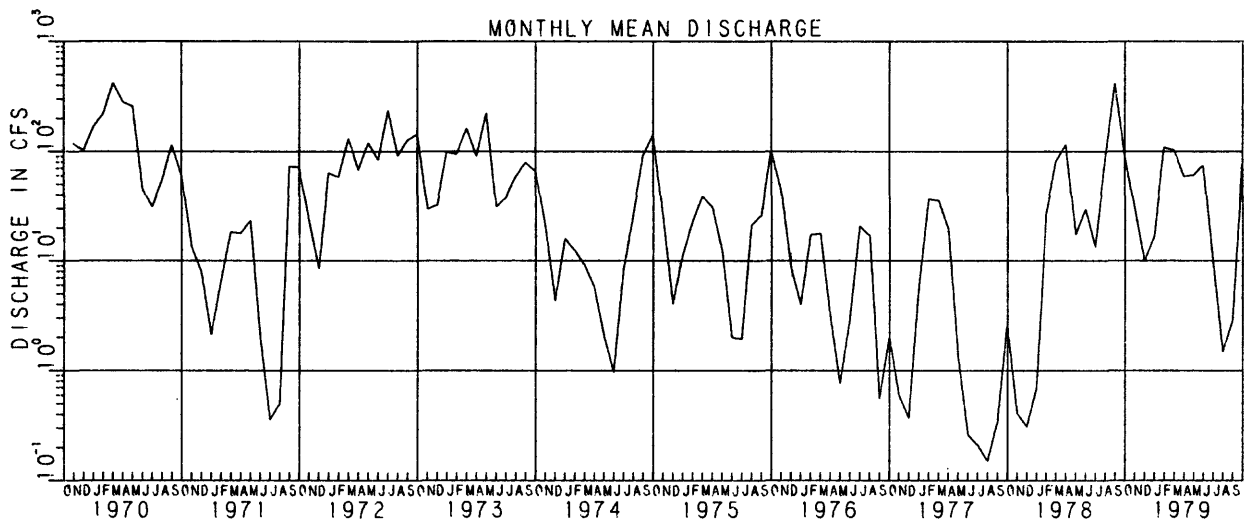
DRAINAGE AREA.--94.9 mi<sup>2</sup> (245.8 km<sup>2</sup>).

PERIOD OF RECORD.--August 1957 to September 1979.

REMARKS.--Records do not include diversions, during periods of high stages, from Santa Fe Lake through Lochloosa Creek in St. Johns River basin.

AVERAGE DISCHARGE.--22 years, 61.6 ft<sup>3</sup>/s (1.745 m<sup>3</sup>/s), 8.77 in/yr (223 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft<sup>3</sup>/s (66.8 m<sup>3</sup>/s) Sept. 12, 1964; minimum, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) July 25, 28, 1977.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

DISCHARGE, IN CUBIC FEET PER SECOND  
MEAN

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	8035	100.0	12	2.6	219	6782	84.4	24	110.0	421	1286	16.0
1	0.1	16	8035	100.0	13	3.5	289	6563	81.7	25	150.0	367	865	10.7
2	0.1	17	8019	99.8	14	4.8	351	6274	78.1	26	210.0	213	498	6.1
3	0.1	130	8002	99.6	15	6.6	390	5923	73.7	27	280.0	144	285	3.5
4	0.2	123	7872	98.0	16	9.0	335	5533	68.9	28	380.0	74	141	1.7
5	0.3	107	7749	96.4	17	12.0	489	5198	64.7	29	530.0	31	67	.8
6	0.4	83	7642	95.1	18	17.0	498	4709	58.6	30	720.0	22	36	.4
7	0.5	154	7559	94.1	19	23.0	565	4211	52.4	31	980.0	5	14	.1
8	0.7	124	7405	92.2	20	31.0	588	3646	45.4	32	1300.0	7	9	.1
9	1.0	166	7281	90.6	21	43.0	690	3058	38.1	33	1800.0	2	2	
10	1.4	161	7115	88.6	22	59.0	589	2368	29.5					
11	1.9	172	6954	86.5	23	80.0	493	1779	22.1					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2.8	1.7	3.9	0.22	7.2	7.2	7.2	0.78	2.0	0.66	0.42	0.71

## SUWANNEE AND AUCILLA RIVERS

## SANTA FE RIVER BASIN

02321000 NEW RIVER NEAR LAKE BUTLER, FL

LOCATION.--Lat 29°59'53", long 82°16'27", in SW¼ sec.2, T. 6 S., R. 20 E., Union County, Hydrologic Unit 02110306, at bridge on State Highway 100, 4.4 mi (7.01 km) southeast of Lake Butler.

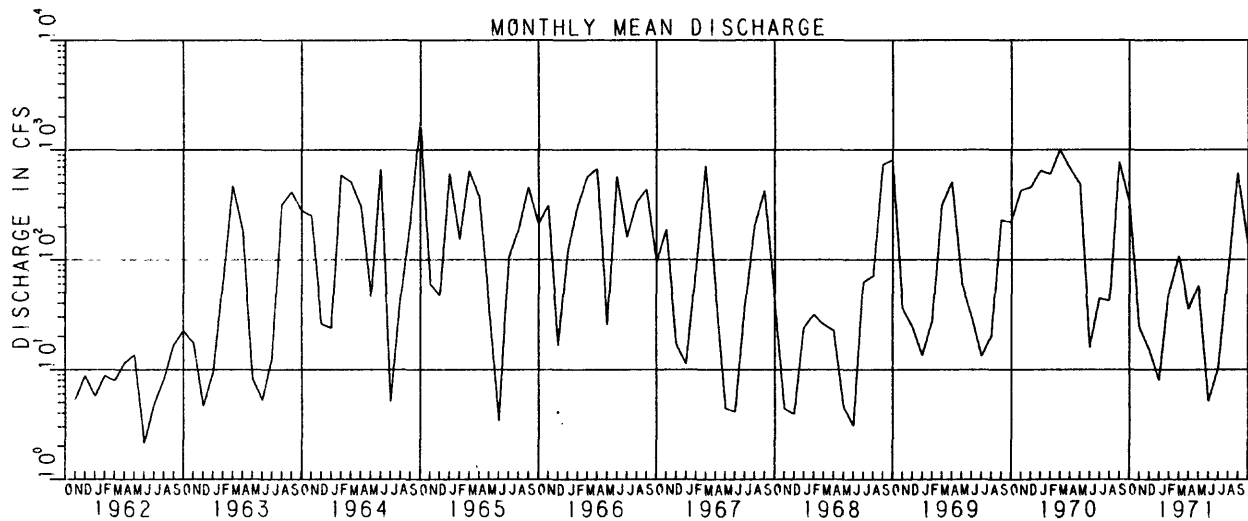
DRAINAGE AREA.--193 mi<sup>2</sup> (500 km<sup>2</sup>).

PERIOD OF RECORD.--January 1950 to September 1971.

REMARKS.-- No low-flow data contained in Hughes (1981).

AVERAGE DISCHARGE.--21 years, 175 ft<sup>3</sup>/s (4.96 m<sup>3</sup>/s), 12.31 in/yr (313 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft<sup>3</sup>/s (323 m<sup>3</sup>/s) Sept. 12 1964; minimum discharge 0.20 ft<sup>3</sup>/s (0.01 m<sup>3</sup>/s) June 10, 11, 23, 24, 25, 1955.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	7670	100.0	12	7.4	403	5949	77.6	24	380.0	266	928	12.0
1	0.1	3	7670	100.0	13	10.0	445	5546	72.3	25	530.0	226	662	8.6
2	0.3	4	7667	100.0	14	14.0	566	5101	66.5	26	740.0	138	436	5.6
3	0.4	6	7663	99.9	15	20.0	572	4535	59.1	27	1000.0	135	298	3.8
4	0.5	21	7657	99.8	16	28.0	475	3963	51.7	28	1400.0	87	163	2.1
5	0.7	65	7636	99.6	17	38.0	505	3488	45.5	29	2000.0	31	76	.9
6	1.0	53	7571	98.7	18	53.0	481	2983	38.9	30	2800.0	22	45	.5
7	1.4	115	7518	98.0	19	74.0	366	2502	32.6	31	3800.0	16	23	.2
8	2.0	207	7403	96.5	20	100.0	317	2136	27.8	32	5300.0	4	7	
9	2.8	321	7196	93.8	21	140.0	307	1819	23.7	33	7400.0	1	3	
10	3.9	514	6875	89.6	22	200.0	306	1512	19.7	34	10000.0	2	2	
11	5.4	412	6361	82.9	23	280.0	278	1206	15.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
4.6	7.2	5.0	1.8	1.1	0.76	1.9	2.9	4.1	3.1	4.0	3.6

SUWANNEE AND AUCILLA RIVERS

SANTA FE RIVER BASIN

02321500 SANTA FE RIVER AT WORTHINGTON SPRINGS, FL

LOCATION.--Lat 29°55'18", long 82°25'35", in SE¼ sec.32, T.6 S., R.19 E., Alachua County, Hydrologic Unit 03110206, at bridge on State Highway 121, 0.5 mi (0.8 km) south of Worthington Springs, 0.8 mi (1.3 km) downstream from New River, and 51 mi (82 km) upstream from mouth.

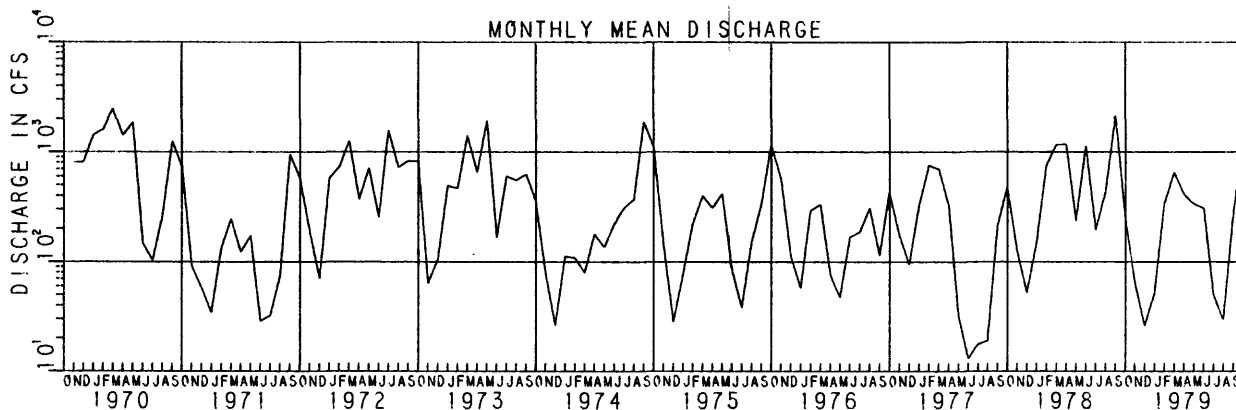
DRAINAGE AREA.--575 mi<sup>2</sup> (1,489 km<sup>2</sup>).

PERIOD OF RECORD.--October 1931 to September 1979.

REMARKS.--Records do not include diversions, during periods of high stages from Santa Fe Lake through Lochloosa Creek in St. Johns River basin.

AVERAGE DISCHARGE.--48 years, 443 ft<sup>3</sup>/s (12.55 m<sup>3</sup>/s), 10.46 in/yr (266 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft<sup>3</sup>/s (566 m<sup>3</sup>/s) Sept. 13, 1964; minimum, 0.50 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) June 24, 1955.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17532	100.0	12	19.0	788	15809	90.2	24	820.0	731	2588	14.7
1	0.5	1	17532	100.0	13	26.0	854	15021	85.7	25	1100.0	661	1857	10.5
2	0.8	6	17531	100.0	14	35.0	1161	14167	80.8	26	1500.0	530	1196	6.8
3	1.1	9	17525	100.0	15	49.0	1213	13006	74.2	27	2100.0	350	666	3.7
4	1.5	30	17516	99.9	16	66.0	1229	11793	67.3	28	2900.0	146	316	1.8
5	2.1	42	17486	99.7	17	91.0	1010	10564	60.3	29	3900.0	72	170	.9
6	2.9	113	17444	99.5	18	120.0	1356	9554	54.5	30	5400.0	44	98	.5
7	3.9	190	17331	98.9	19	170.0	1167	8198	46.8	31	7400.0	29	54	.3
8	5.4	168	17141	97.8	20	230.0	1277	7031	40.1	32	10000.0	16	25	.1
9	7.4	246	16973	96.8	21	320.0	1199	5754	32.8	33	14000.0	8	9	
10	10.0	350	16727	95.4	22	440.0	1085	4555	26.0	34	19000.0	1	1	
11	14.0	568	16377	93.4	23	600.0	882	3470	19.8					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
19	27	24	8.3	5.2	4.0	9.3	36	34	13	13	13

## SUWANNEE AND AUCILLA RIVERS

## SANTA FE RIVER BASIN

02322000 SANTA FE RIVER NEAR HIGH SPRINGS, FL

LOCATION.--Lat 29°50'33", long 82°37'52" in NE¼ sec.32, T.7 S., R.17 E., Columbia County Hydrologic Unit 03110206, at bridge on U.S. Highway 27, 100 ft (30 m) upstream from Seaboard Coast Line Railroad bridge, 2.0 mi (3.2 km) northwest of High Springs, and 25 mi (40 km) upstream from mouth.

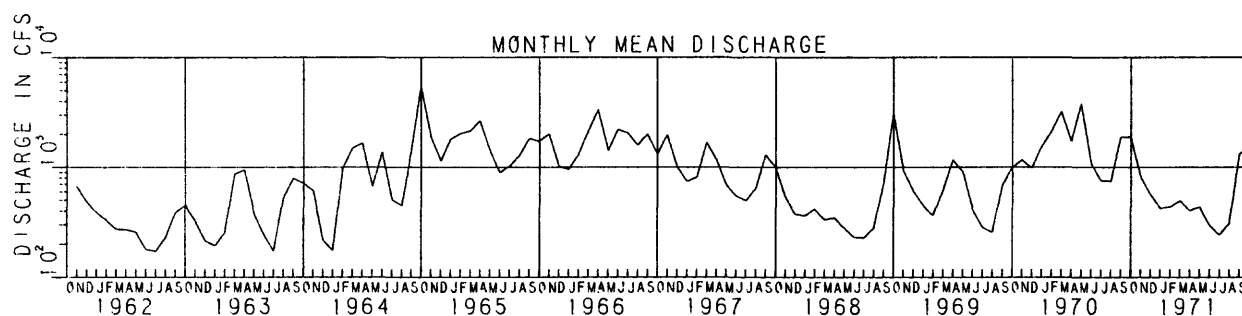
DRAINAGE AREA.--868 mi<sup>2</sup> (2,248 km<sup>2</sup>).

PERIOD OF RECORD.--January 1931 to September 1971.

REMARKS.--Discharge occasionally affected by backwater from Suwannee River.

AVERAGE DISCHARGE.--40 years, 846 ft<sup>3</sup>/s (23.95 m<sup>3</sup>/s), 12.09 in/yr (307 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft<sup>3</sup>/s (566 m<sup>3</sup>/s) Sept. 15, 1964; minimum discharge, 31 ft<sup>3</sup>/s (0.88 m<sup>3</sup>/s) Apr. 28 to May 5, 1956.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14610	100.0	12	250.0	1153	11596	79.4	24	2700.0	266	595	4.0
1	31.0	17	14610	100.0	13	320.0	1062	10443	71.5	25	3200.0	148	329	2.2
2	38.0	22	14593	99.9	14	380.0	1288	9381	64.2	26	3900.0	76	181	1.2
3	46.0	37	14571	99.7	15	470.0	1050	8093	55.4	27	4800.0	35	105	.7
4	55.0	99	14534	99.5	16	570.0	918	7043	48.2	28	5800.0	32	70	.4
5	67.0	159	14435	98.8	17	690.0	1045	6125	41.9	29	7000.0	20	38	.2
6	82.0	147	14276	97.7	18	830.0	1014	5080	34.8	30	8500.0	6	18	.1
7	99.0	233	14129	96.7	19	1000.0	924	4066	27.8	31	10000.0	8	12	
8	120.0	344	13896	95.1	20	1200.0	939	3142	21.5	32	13000.0	1	4	
9	150.0	345	13552	92.8	21	1500.0	652	2203	15.1	33	15000.0	2	3	
10	180.0	733	13207	90.4	22	1800.0	547	1551	10.6	34	19000.0	1	1	
11	220.0	878	12474	85.4	23	2200.0	409	1004	6.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
132	150	146	139	116	118	148	230	227	192	174	143

## SUWANNEE AND AUCILLA RIVERS

## SANTA FE RIVER BASIN

02322500 SANTA FE RIVER NEAR FORT WHITE, FL

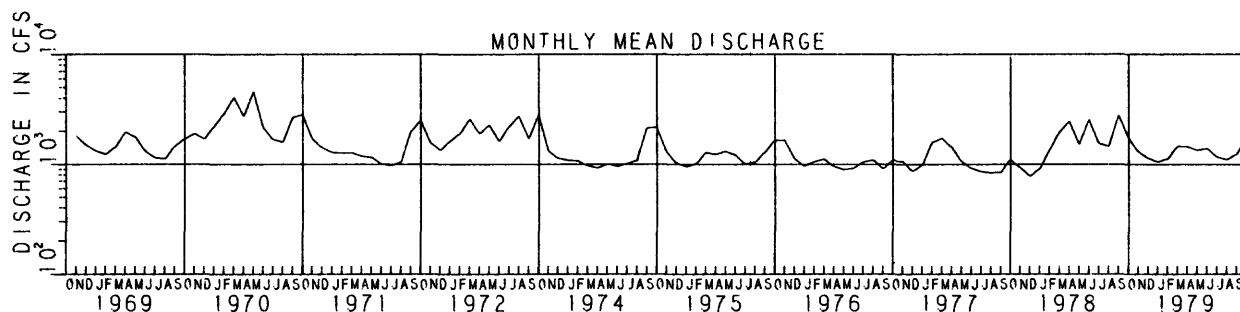
LOCATION.--Lat 29°50'55", long 82°42'55", in SE¼ sec.28, T.7 S., R.16 E., Gilchrist County, Hydrologic Unit 03110206, 2.1 miles (3.4 km) upstream from bridge on State Highway 47, 5.1 miles (8.2 km) south of Fort White, and 18 miles (29 km) upstream from mouth.

DRAINAGE AREA.--1,017 mi<sup>2</sup> (2,630 km<sup>2</sup>).

PERIOD OF RECORD.--October 1927 to January 1930, June 1932 to September 1978.

AVERAGE DISCHARGE.--49 years (water years 1928-29, 1933-79); 1,625 ft<sup>3</sup>/s (46.02 m<sup>3</sup>/s), 21.70 in/yr (551 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft<sup>3</sup>/s (481 m<sup>3</sup>/s) Sept. 16, 1964; 609 ft<sup>3</sup>/s (17.2 m<sup>3</sup>/s) May 22, 1957.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17532	100.0	12	1800.0	1066	4936	28.2	24	6000.0	25	83	.4
1	617.0	177	17532	100.0	13	2000.0	751	3870	22.1	25	6700.0	22	58	.3
2	680.0	296	17355	99.0	14	2200.0	880	3119	17.8	26	7400.0	16	36	.2
3	750.0	452	17059	97.3	15	2500.0	462	2239	12.8	27	8100.0	3	20	.1
4	830.0	1193	16607	94.7	16	2700.0	535	1777	10.1	28	9000.0	4	17	
5	920.0	1423	15414	87.9	17	3000.0	329	1242	7.1	29	9900.0	3	13	
6	1000.0	1731	13991	79.8	18	3300.0	320	913	5.2	30	11000.0	5	10	
7	1100.0	1889	12260	69.9	19	3700.0	202	593	3.4	31	12000.0		5	
8	1200.0	2324	10371	59.2	20	4100.0	139	391	2.2	32	13000.0	2	5	
9	1400.0	804	8047	45.9	21	4500.0	100	252	1.4	33	15000.0	1	3	
10	1500.0	1583	7243	41.3	22	5000.0	41	152	0.9	34	16000.0	2	2	
11	1700.0	724	5660	32.3	23	5500.0	28	111	0.6					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
829	860	830	825	804	772	750	924	962	884	852	826

# SUWANNEE AND AUCILLA RIVERS

SUWANNEE RIVER BASIN BELOW WITHLACOCHEE RIVER EXCLUDING SANTA FE RIVER BASIN

02323000 SUWANNEE RIVER NEAR BELL, FL

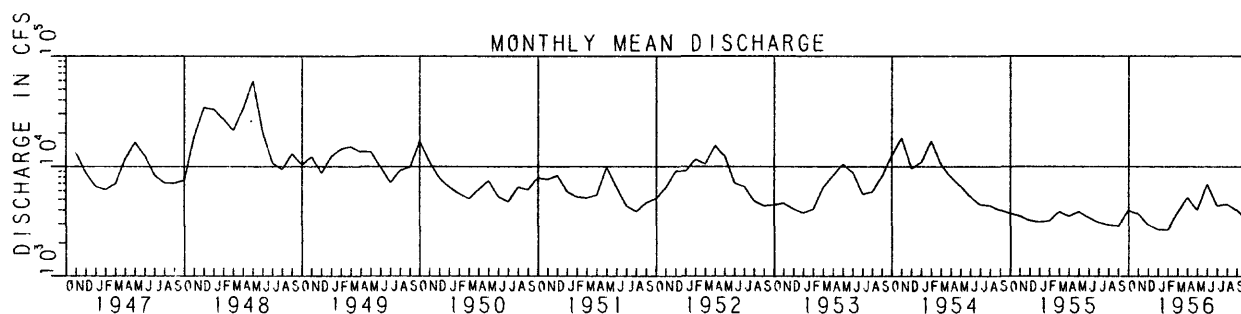
LOCATION.--Lat 29°48'00", long 82°55'00", in sec.16 or 17, T.8 S., R.14 E., Gilcrest County, Hydrologic Unit 03110205, at Rock Bluff Ferry, 4.5 miles (7.2 km) northwest of Bell and 10 miles (16.1 km) downstream from Santa Fe River.

DRAINAGE AREA.--9,260 mi<sup>2</sup> (24,000 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--June 1932 to December 1956.

AVERAGE DISCHARGE.--24 years, 8,513 ft<sup>3</sup>/s (241 m<sup>3</sup>/s), 12.49 in/yr (317 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 82,300 ft<sup>3</sup>/s (2,330 m<sup>3</sup>/s) Apr. 13, 1948; minimum, 2,460 ft<sup>3</sup>/s (70 m<sup>3</sup>/s) Jan. 10, 11, 1956.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	8766	100.0	12	8000.0	578	3341	38.1	24	28000.0	47	141	1.6
1	2490.0	68	8766	100.0	13	8900.0	444	2763	31.5	25	32000.0	19	94	1.0
2	2800.0	163	8698	99.2	14	9800.0	457	2319	26.5	26	35000.0	33	75	.8
3	3100.0	285	8535	97.4	15	11000.0	274	1862	21.2	27	39000.0	3	42	.4
4	3400.0	428	8250	94.1	16	12000.0	410	1588	18.1	28	43000.0	15	39	.4
5	3800.0	449	7822	89.2	17	14000.0	210	1178	13.4	29	48000.0	8	24	.2
6	4200.0	756	7373	84.1	18	15000.0	323	968	11.0	30	54000.0	2	16	.1
7	4700.0	789	6617	75.5	19	17000.0	187	645	7.4	31	59000.0	3	14	.1
8	5200.0	621	5828	66.5	20	19000.0	106	458	5.2	32	66000.0	3	11	.1
9	5800.0	608	5207	59.4	21	21000.0	125	352	4.0	33	73000.0	7	8	
10	6500.0	628	4599	52.5	22	23000.0	68	227	2.6	34	82000.0	1	1	
11	7200.0	630	3971	45.3	23	26000.0	18	159	1.8					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3,060	3,460	4,100	3,930	3,600	3,400	3,580	3,780	3,610	3,490	3,390	3,140

SUWANNEE AND AUCILLA RIVERS

SUWANNEE RIVER BELOW WITHLACOOCHEE RIVER EXCLUDING SANTA FE RIVER BASIN

02323500 SUWANNEE RIVER NEAR WILCOX, FL

LOCATION.--Lat 29°35'22", long 82°56'12", in NW¼ sec.29, T.10 S., R.14 E., Levy County, Hydrologic Unit 03110205, about 400 ft (122 m) downstream from Fort Fannin Bridge on U.S. Highway 19, 2.0 mi (3.2 km) southwest of Wilcox and 33 mi (53 km) upstream from mouth.

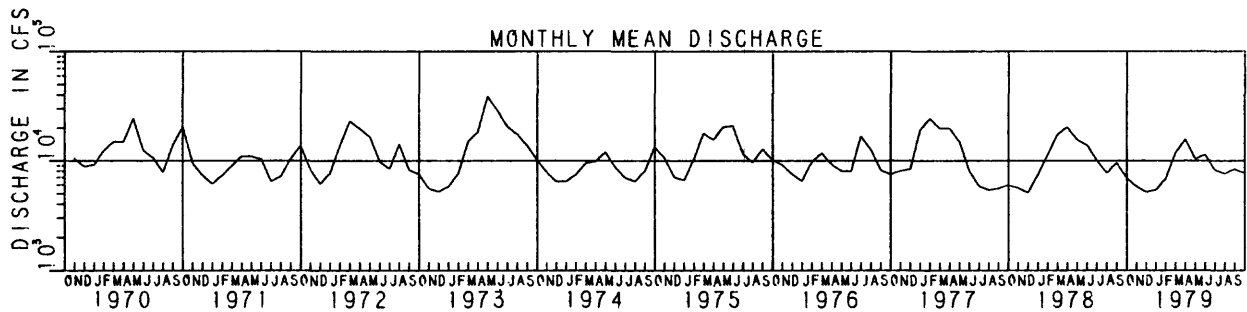
DRAINAGE AREA.--9,640 mi<sup>2</sup> (25,000 km<sup>2</sup>), approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--October 1930 to September 1931, October 1941 to September 1979.

REMARKS.--Flow generally affected by tide when discharge is less than 17,500 ft<sup>3</sup>/s (496 m<sup>3</sup>/s).

AVERAGE DISCHARGE.--39 years, 10,580 ft<sup>3</sup>/s (299.6 m<sup>3</sup>/s), 14.90 in/yr (378 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 84,700 ft<sup>3</sup>/s (2,400 m<sup>3</sup>/s) Apr. 14, 1948; minimum daily since January 1951, 3,270 ft<sup>3</sup>/s (92.6 m<sup>3</sup>/s) Feb. 24, 1957.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14244	100.0	12	9600.0	1228	6201	43.5	24	31000.0	66	200	1.4
1	3270.0	75	14244	100.0	13	11000.0	770	4973	34.9	25	34000.0	61	134	.9
2	3600.0	236	14169	99.5	14	12000.0	552	4203	29.5	26	38000.0	19	73	.5
3	4000.0	569	13933	97.8	15	13000.0	467	3651	25.6	27	42000.0	19	54	.3
4	4400.0	515	13364	93.8	16	14000.0	967	3184	22.4	28	46000.0	9	35	.2
5	4800.0	716	12849	90.2	17	16000.0	365	2217	15.6	29	51000.0	13	26	.1
6	5300.0	1153	12133	85.2	18	17000.0	563	1852	13.0	30	56000.0	4	13	
7	5900.0	894	10980	77.1	19	19000.0	351	1289	9.0	31	62000.0	2	9	
8	6500.0	937	10086	70.8	20	21000.0	282	938	6.6	32	69000.0	1	7	
9	7200.0	1001	9149	64.2	21	23000.0	248	656	4.6	33	76000.0	3	6	
10	7900.0	1091	8148	57.2	22	26000.0	93	408	2.9	34	83000.0	3	3	
11	8700.0	856	7057	49.5	23	28000.0	115	315	2.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
4,252	4,709	5,704	5,758	4,971	4,605	4,472	4,698	4,604	4,424	4,368	4,272

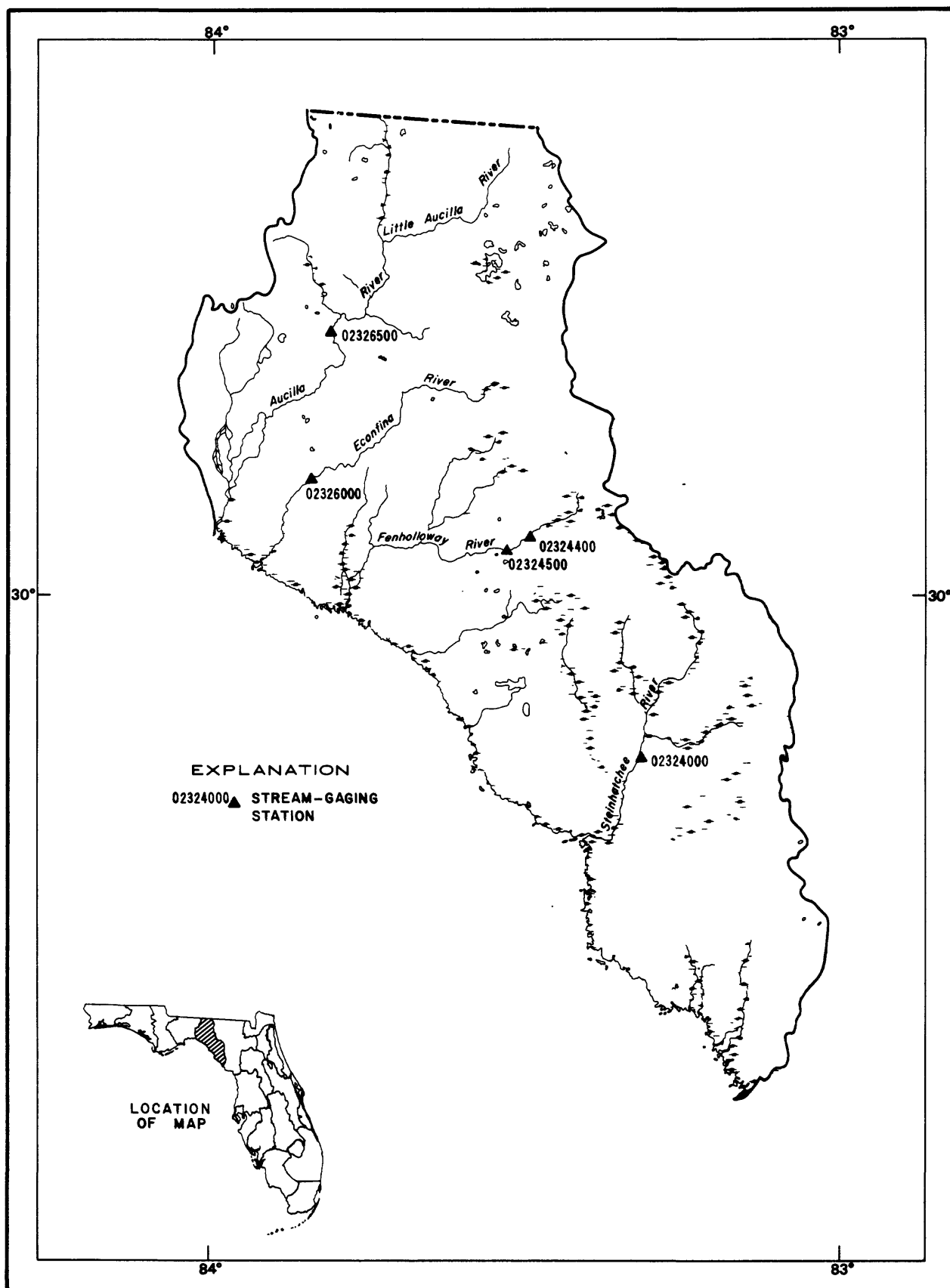


Figure 15.-- Stations in the coastal area between the Suwannee and Aucilla Rivers, and the Aucilla River basin.

# SUWANNEE AND AUCILLA RIVERS

## COASTAL AREA BETWEEN SUWANNEE RIVER AND AUCILLA RIVERS

02324000 STEINHATCHEE RIVER NEAR CROSS CITY, FL

LOCATION.--Lat 29°47'11", long 83°19'18", in NE¼ sec.16, T.8 S., R.10 E., Taylor County, Hydrologic Unit 03110102, 0.7 mi (1.1 km) downstream from Atlantic Coast Line Railroad bridge, 0.7 mi (1.1 km) south of Clara, 13 mi (21 km) upstream from mouth, and 16 mi (26 km) northwest of Cross City.

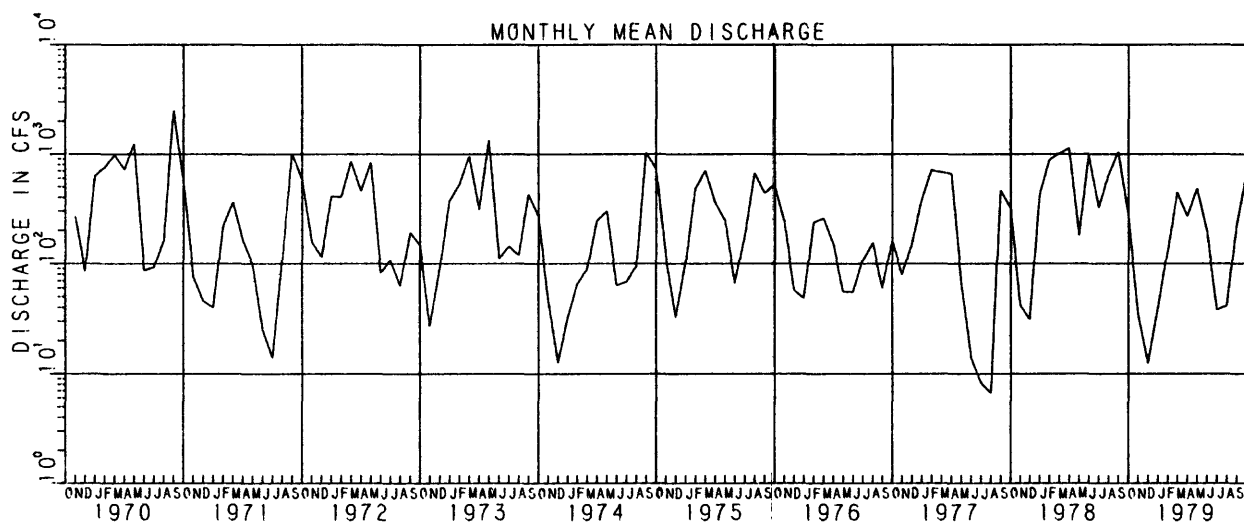
DRAINAGE AREA.--350 mi<sup>2</sup> (907 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--February 1950 to September 1979.

REMARKS.--Below about 500 ft<sup>3</sup>/s (14.2 m<sup>3</sup>/s), all flow enters sinkhole 0.5 mi (0.8 km) downstream from gage.

AVERAGE DISCHARGE.--29 years, 323 ft<sup>3</sup>/s (9.147 m<sup>3</sup>/s), 12.53 in/yr (318 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft<sup>3</sup>/s (498 m<sup>3</sup>/s) Sept. 13, 14, 1964; minimum, 3.4 ft<sup>3</sup>/s (0.096 m<sup>3</sup>/s) June 27, 28, 1950.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	10592	100.0	12	59.0	618	7147	67.5	24	1300.0	209	468	4.4
1	3.5	14	10592	100.0	13	77.0	556	6529	61.6	25	1600.0	134	259	2.4
2	4.6	47	10578	99.9	14	99.0	626	5973	56.4	26	2100.0	56	125	1.1
3	6.0	121	10531	99.4	15	130.0	505	5347	50.5	27	2700.0	32	69	.6
4	7.7	178	10410	98.3	16	160.0	682	4842	45.7	28	3500.0	22	37	.3
5	10.0	341	10232	96.6	17	210.0	642	4160	39.3	29	4500.0	4	15	.1
6	13.0	349	9891	93.4	18	270.0	643	3518	33.2	30	5800.0	6	11	.1
7	17.0	280	9542	90.1	19	350.0	576	2875	27.1	31	7500.0	1	5	
8	21.0	471	9262	87.4	20	460.0	510	2299	21.7	32	9700.0	2	4	
9	28.0	494	8791	83.0	21	590.0	510	1789	16.9	33	13000.0		2	
10	36.0	538	8297	78.3	22	760.0	460	1279	12.1	34	16000.0	2	2	
11	46.0	612	7759	73.3	23	980.0	351	819	7.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
24	37	28	16	7.9	5.7	11	24	27	11	11	12

SUWANNEE AND AUCILLA RIVERS  
COASTAL AREA BETWEEN SUWANNEE RIVER AND AUCILLA RIVERS

02324400 FENHOLLOWAY RIVER NEAR FOLEY, FL

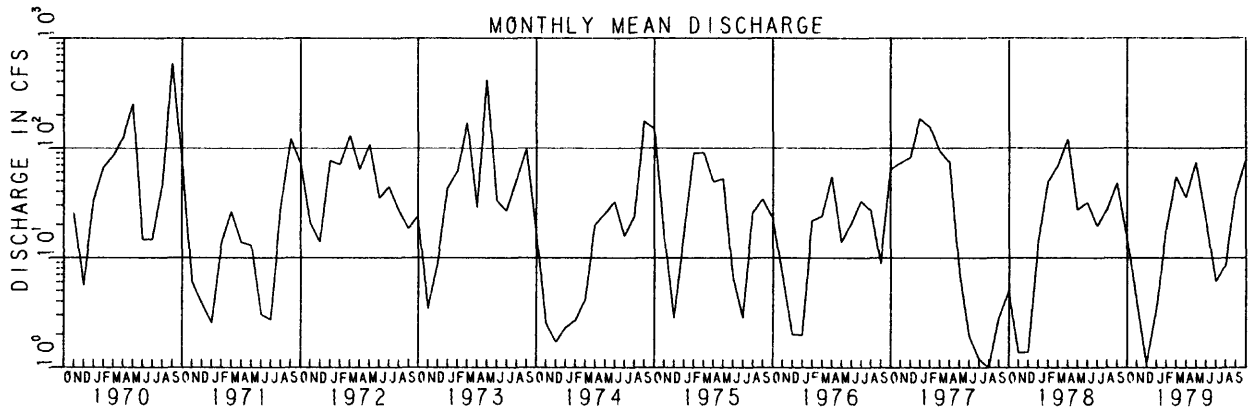
LOCATION.--Lat 30°05'53", long 83°28'19", in NE 1/4 sec.36, T.4 S., R.8 E., Taylor County, Hydrologic Unit 03110102, at bridge on U.S. Highway 27, 1.8 mi (2.9 km) upstream from small tributary, 4 mi (6 km) northeast of Foley, and 32 mi (51 km) upstream from mouth.

DRAINAGE AREA.--60 mi<sup>2</sup> (155 km<sup>2</sup>) approximately.

PERIOD OF RECORD.--September 1955 to September 1979.

AVERAGE DISCHARGE.--24 years, 55.6 ft<sup>3</sup>/s (1.575 m<sup>3</sup>/s), 40,282 acre-ft/yr (49.7 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,120 ft<sup>3</sup>/s (88.4 m<sup>3</sup>/s) Sept. 12, 1964; minimum 0.54 ft<sup>3</sup>/s (0.015 m<sup>3</sup>/s) Nov. 1, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	8766	100.0	12	8.8	298	5445	62.1	24	170.0	288	715	8.1
1	0.5	38	8766	100.0	13	11.0	519	5147	58.7	25	220.0	165	427	4.8
2	0.7	93	8728	99.6	14	15.0	430	4628	52.8	26	290.0	97	262	2.9
3	0.9	141	8635	98.5	15	19.0	427	4198	47.9	27	370.0	63	165	1.8
4	1.2	200	8494	96.9	16	24.0	455	3771	43.0	28	470.0	43	102	1.1
5	1.5	431	8294	94.6	17	31.0	374	3316	37.8	29	610.0	23	59	.6
6	2.0	389	7863	89.7	18	39.0	372	2942	33.6	30	780.0	15	36	.4
7	2.5	554	7474	85.3	19	50.0	459	2570	29.3	31	1000.0	10	21	.2
8	3.3	376	6920	78.9	20	65.0	390	2111	24.1	32	1300.0	6	11	.1
9	4.2	362	6544	74.7	21	85.0	473	1721	19.6	33	1600.0	3	5	
10	5.4	384	6182	70.5	22	110.0	303	1248	14.2	34	2100.0	2	2	
11	6.9	353	5798	66.1	23	140.0	230	945	10.8					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2.6	3.2	2.9	2.0	1.6	1.2	1.5	2.6	2.0	1.1	1.1	1.2

# SUWANNEE AND AUCILLA RIVERS

## COASTAL AREA BETWEEN SUWANNEE RIVER AND AUCILLA RIVERS

02324500 FENHOLLOWAY RIVER AT FOLEY, FL

LOCATION.--Lat 30°03'55", long 83°34'29", in NE¼ sec.7, T.5 S., R.8 E., Taylor County, Hydrologic Unit 03110102, at bridge of U.S. Highway 19, 1.6 mi (2.6 km) west of Foley, 2.4 mi (3.9 km) downstream from clarifier flume of the Buckeye Cellulose Corporation plant, 11.4 mi (18.3 km) upstream from Spring Creek, and 24.4 mi (39.3 km) upstream from mouth.

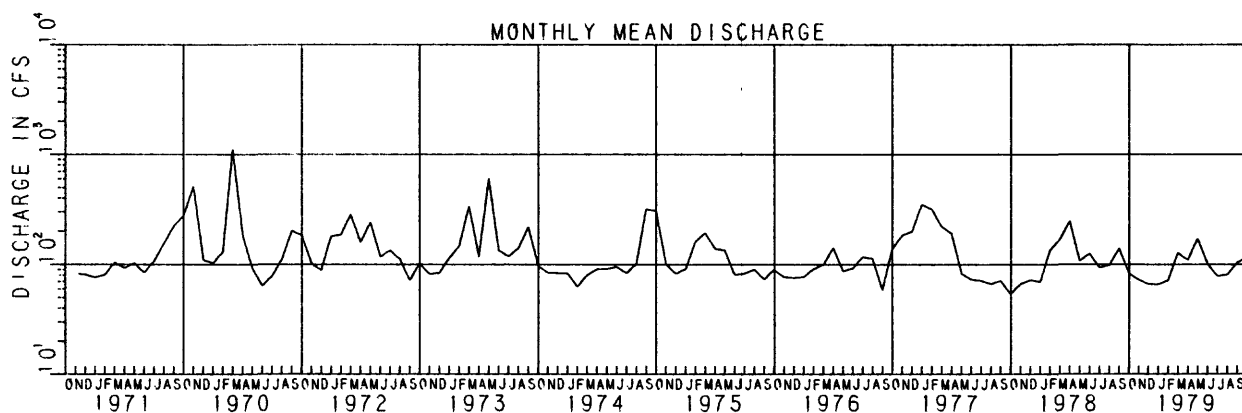
DRAINAGE AREA.--About 120 mi<sup>2</sup> (311 km<sup>2</sup>); approximately.

PERIOD OF RECORD.--September 1946 to September 1979.

REMARKS.--Since Feb. 1, 1954, large ground-water withdrawals by cellulose plant upstream. Records include return flow from plant. No low-flow data listed below.

AVERAGE DISCHARGE.--33 years; 129 ft<sup>3</sup>/s (3.653 m<sup>3</sup>/s), 93,460 acre ft/yr (115 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft<sup>3</sup>/s (136 m<sup>3</sup>/s) Sept. 12, 1964; no flow Jan. 1-5, 1971, caused by diversion of flow into lagoon; minimum discharge, 0.80 ft<sup>3</sup>/s (0.023 m<sup>3</sup>/s) Aug. 16, 1972.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	3	12053	100.0	12	4.5	8	12039	99.9	24	170.0	920	2263	18.7
1	0.1	1	12050	100.0	13	6.2	16	12031	99.8	25	240.0	538	1343	11.1
2	0.2	0	12049	100.0	14	8.3	216	12015	99.7	26	320.0	377	805	6.6
3	0.3	0	12049	100.0	15	11.0	514	11799	97.9	27	440.0	176	428	3.5
4	0.4	2	12049	100.0	16	15.0	325	11285	93.6	28	590.0	134	252	2.0
5	0.5	0	12047	100.0	17	21.0	263	10960	90.9	29	800.0	63	118	.9
6	0.7	1	12047	100.0	18	28.0	437	10697	88.7	30	1100.0	21	55	.4
7	1.0	0	12046	99.9	19	38.0	704	10260	85.1	31	1500.0	18	34	.2
8	1.3	0	12046	99.9	20	52.0	1064	9556	79.3	32	2000.0	7	16	.1
9	1.8	0	12046	99.9	21	70.0	3621	8492	70.5	33	2700.0	8	9	
10	2.5	3	12046	99.9	22	95.0	1655	4871	40.4	34	3700.0	1	1	
11	3.3	4	12043	99.9	23	130.0	953	3216	26.7					

SUWANNEE AND AUCILLA RIVERS  
COASTAL AREA BETWEEN SUWANNEE RIVER AND AUCILLA RIVERS

02326000 ECONFINA RIVER NEAR PERRY, FL.

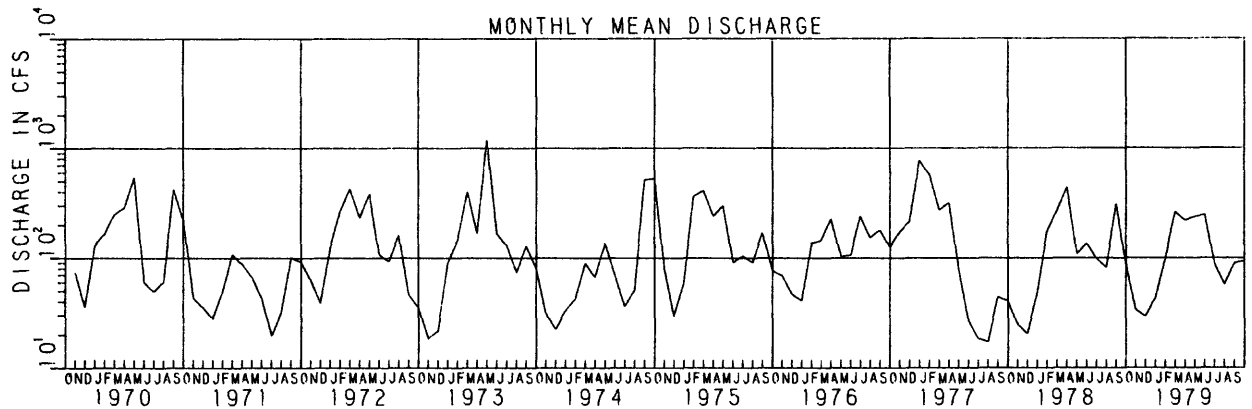
LOCATION.--Lat 30°10'14", long 83°49'26", in NE¼ sec.4, T.4 S., R.5 E., Alor County, Hydrologic Unit 03110102, at wooden bridge, 3.0 mi (4.8 km) downstream from Natural Well Branch, 3.9 mi (6.3 km) upstream from bridge on U.S. Highway 98, 14 mi (23 km) upstream from mouth, and 14.7 mi (23.7 km) northwest of Perry.

DRAINAGE AREA.--198 mi<sup>2</sup> (513 km<sup>2</sup>).

PERIOD OF RECORD.--February 1950 to September 1979.

AVERAGE DISCHARGE.--29 years, 133 ft<sup>3</sup>/s (3.767 m<sup>3</sup>/s), 9.12 in/yr (232 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft<sup>3</sup>/s (71.9 m<sup>3</sup>/s) Sept. 17, 1957; minimum, 2.3 ft<sup>3</sup>/s (0.065 m<sup>3</sup>/s) July 8, 1955.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	10592	100.0	12	24.0	773	8449	79.8	24	290.0	410	1388	13.1
1	2.3	8	10592	100.0	13	29.0	914	7676	72.5	25	360.0	317	978	9.2
2	3.0	7	10584	99.9	14	36.0	625	6762	63.8	26	450.0	211	661	6.2
3	3.6	18	10577	99.9	15	45.0	574	6137	57.9	27	550.0	191	450	4.2
4	4.5	15	10559	99.7	16	55.0	555	5563	52.5	28	680.0	144	259	2.4
5	5.5	15	10544	99.5	17	68.0	579	5008	47.3	29	830.0	45	115	1.0
6	6.8	80	10529	99.4	18	84.0	500	4429	41.8	30	1000.0	32	70	.6
7	8.4	119	10449	98.6	19	100.0	710	3929	37.1	31	1300.0	17	38	.3
8	10.0	324	10330	97.5	20	130.0	583	3219	30.4	32	1600.0	10	21	.1
9	13.0	236	10006	94.5	21	160.0	387	2636	24.9	33	1900.0	10	11	.1
10	16.0	435	9770	92.2	22	190.0	491	2249	21.2	34	2400.0	1	1	
11	19.0	886	9335	88.1	23	240.0	370	1758	16.6					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
15	19	20	20	16	11	11	18	16	12	11	12

## SUWANNEE AND AUCILLA RIVERS

## AUCILLA RIVER BASIN

02326500 AUCILLA RIVER AT LAMONT, FL

LOCATION.--Lat 30°22'11", long 83°48'25", in NE¼ sec.27, T.1 S., R.5 E., Madison County, Hydrologic Unit 03110103, at bridge on U.S. Highway 19, 0.6 mi (1.0 km) southeast of Lamont, and 34 mi (55 km) upstream from mouth.

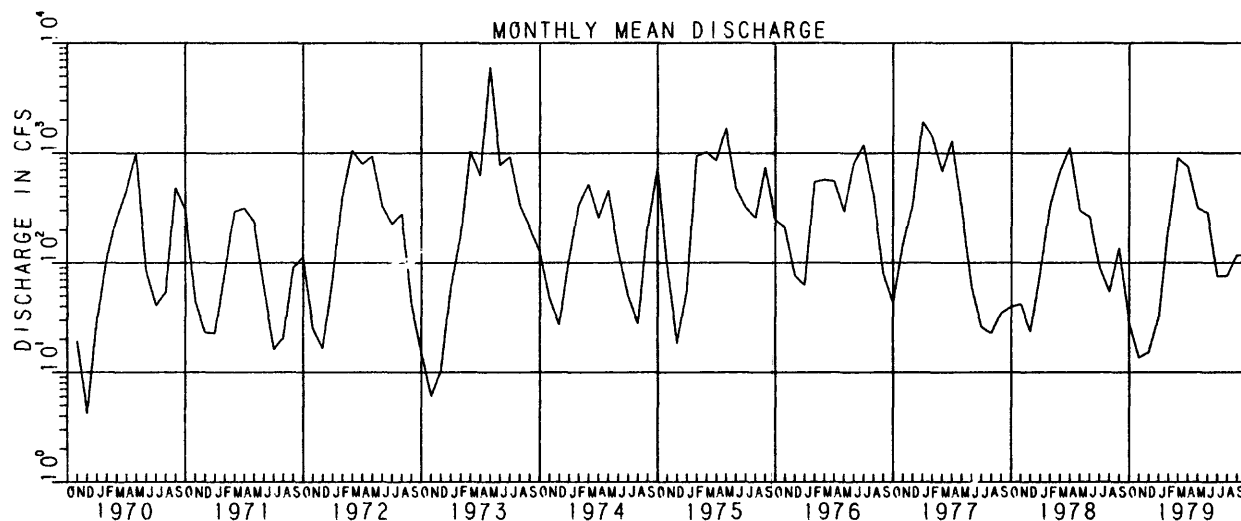
DRAINAGE AREA.--747 mi<sup>2</sup> (1,935 km<sup>2</sup>).

PERIOD OF RECORD.--February 1950 to September 1979.

REMARKS.--Pumpage above and below station for irrigation during dry seasons. Since Aug. 27, 1963, low-head rock and concrete dam 0.6 mi (1.0 km) downstream.

AVERAGE DISCHARGE.--29 years; 364 ft<sup>3</sup>/s (10.30 m<sup>3</sup>/s) 6.61 in/yr (168 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft<sup>3</sup>/s (326 m<sup>3</sup>/s) Apr. 8, 1973; no flow for many days in 1955, 1957, 1964, 1968; river dry at gage June 13-16, 1955.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	105	10592	100.0	12	1.6	153	10184	96.1	24	200.0	841	4045	38.1
1	0.0	0	10487	99.0	13	2.4	225	10031	94.7	25	300.0	758	3204	30.2
2	0.0	1	10487	99.0	14	3.6	227	9806	92.6	26	450.0	794	2446	23.0
3	0.0	0	10486	99.0	15	5.4	238	9579	90.4	27	670.0	713	1652	15.5
4	0.1	1	10486	99.0	16	8.1	266	9341	88.2	28	1000.0	397	939	8.8
5	0.1	0	10485	99.0	17	12.0	918	9075	85.7	29	1500.0	258	542	5.1
6	0.1	36	10485	99.0	18	18.0	887	8157	77.0	30	2300.0	163	284	2.6
7	0.2	26	10449	98.6	19	27.0	531	7270	68.6	31	3400.0	79	121	1.1
8	0.3	59	10423	98.4	20	40.0	610	6739	63.6	32	5100.0	31	42	.3
9	0.5	43	10364	97.8	21	60.0	666	6129	57.9	33	7600.0	7	11	.1
10	0.7	71	10321	97.4	22	90.0	668	5463	51.6	34	11000.0	4	4	
11	1.1	66	10250	96.8	23	130.0	750	4795	45.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3.6	11	9.1	15	6.3	3.8	3.2	4.7	3.2	1.4	1.7	2.9

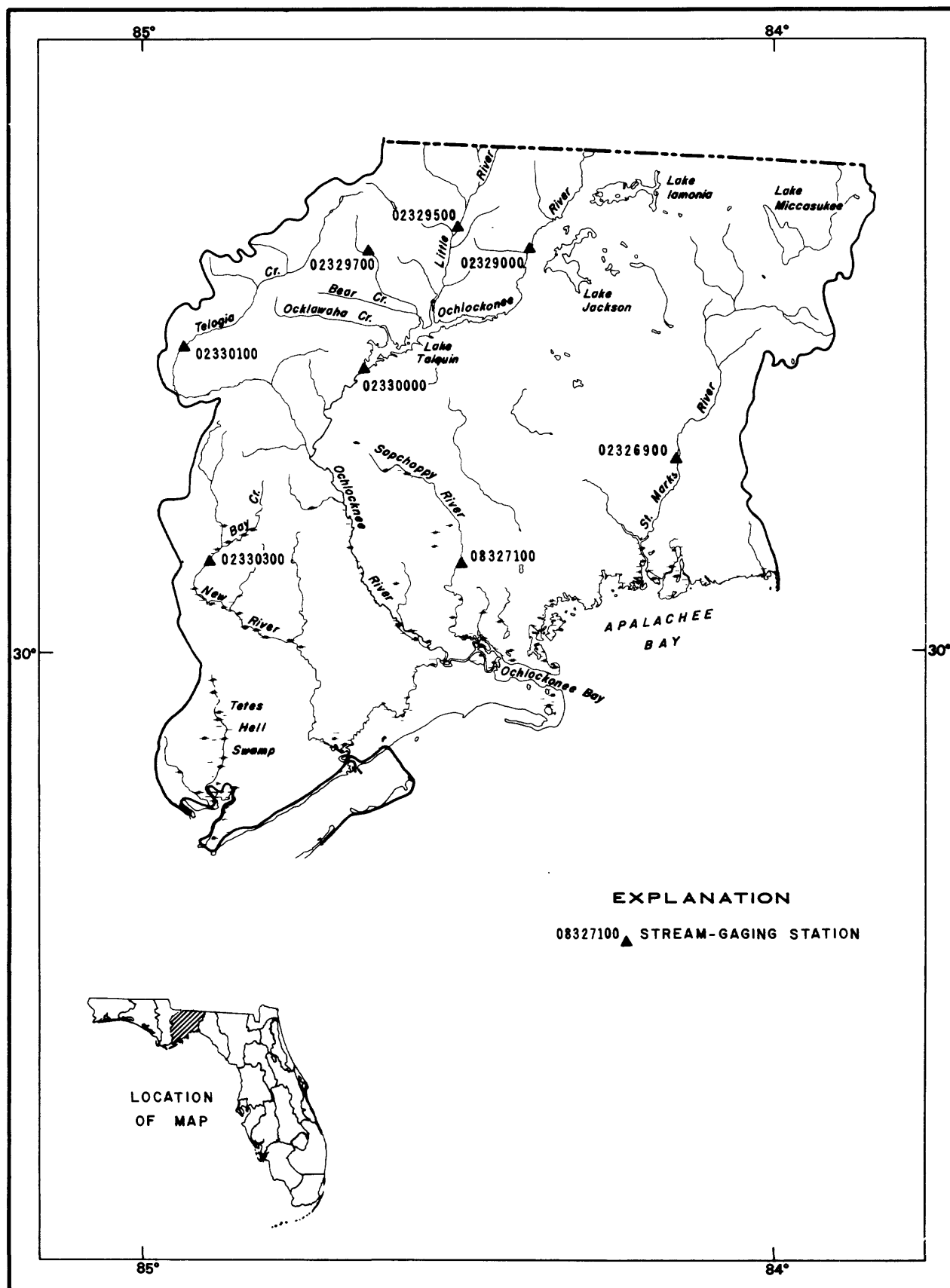


Figure 16.-- Stations in the St. Marks and Ochlockonee River basins and the coastal area between the Ochlockonee and Apalachicola Rivers.

# OCHLOCKONEE RIVER

## ST. MARKS AND WAKULLA RIVERS AND COASTAL AREA BETWEEN AUCILLA AND OCHLOCKONEE RIVERS

02326900 ST. MARKS RIVER NEAR NEWPORT, FL

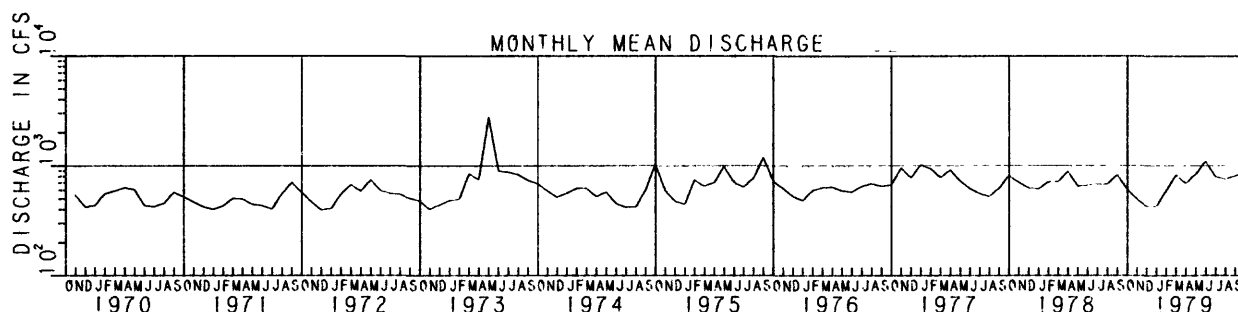
LOCATION.--Lat 30°16'00", long 84°09'00", in SE¼ sec.32, T.2 S., R.2 E., Wakulla County, Hydrologic Unit 03120001, at 0.9 mi (1.4 km) downstream from Rhodes Springs, 6 mi (10 km) north of Newport, 11 mi (18 km) upstream from Wakulla River, and 14 mi (23 km) upstream from mouth.

DRAINAGE AREA.--535 mi<sup>2</sup> (1,386 km<sup>2</sup>) including 290 mi<sup>2</sup> (751 km<sup>2</sup>) of Lake Miccosukee, which contributes to St. Marks River at high stages.

PERIOD OF RECORD.--October 1956 to September 1979.

AVERAGE DISCHARGE.--23 years, 671 ft<sup>3</sup>/s, (19.00 m<sup>3</sup>/s) 486,100 acre-ft/yr, (599 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft<sup>3</sup>/s (135 m<sup>3</sup>/s) Apr. 7, 1973; minimum, 310 ft<sup>3</sup>/s (8.78 m<sup>3</sup>/s) Apr. 25, 1964, Oct. 4-6, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	8400	100.0	12	770.0	443	1902	22.6	24	2000.0	30	96	1.1
1	315.0	103	8400	100.0	13	840.0	325	1459	17.4	25	2200.0	16	66	.7
2	340.0	314	8297	98.8	14	910.0	224	1134	13.5	26	2400.0	14	50	.5
3	370.0	404	7983	95.0	15	980.0	258	910	10.8	27	2600.0	10	36	.4
4	400.0	951	7579	90.2	16	1100.0	157	652	7.8	28	2800.0	7	26	.3
5	440.0	437	6628	78.9	17	1200.0	116	495	5.9	29	3100.0	5	19	.2
6	470.0	580	6191	73.7	18	1300.0	95	379	4.5	30	3300.0	2	14	.1
7	510.0	640	5611	66.8	19	1400.0	60	284	3.4	31	3600.0	5	12	.1
8	560.0	688	4971	59.2	20	1500.0	44	224	2.7	32	3900.0	2	7	
9	600.0	1135	4283	51.0	21	1600.0	32	180	2.1	33	4300.0	2	5	
10	660.0	696	3148	37.5	22	1700.0	45	148	1.8	34	4600.0	3	3	
11	710.0	550	2452	29.2	23	1900.0	7	103	1.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
387	409	407	386	376	353	395	449	418	388	364	367

# OCHLOCKONEE RIVER

## OCHLOCKONEE RIVER BASIN

02329000 OCHLOCKONEE RIVER NEAR HAVANA, FL

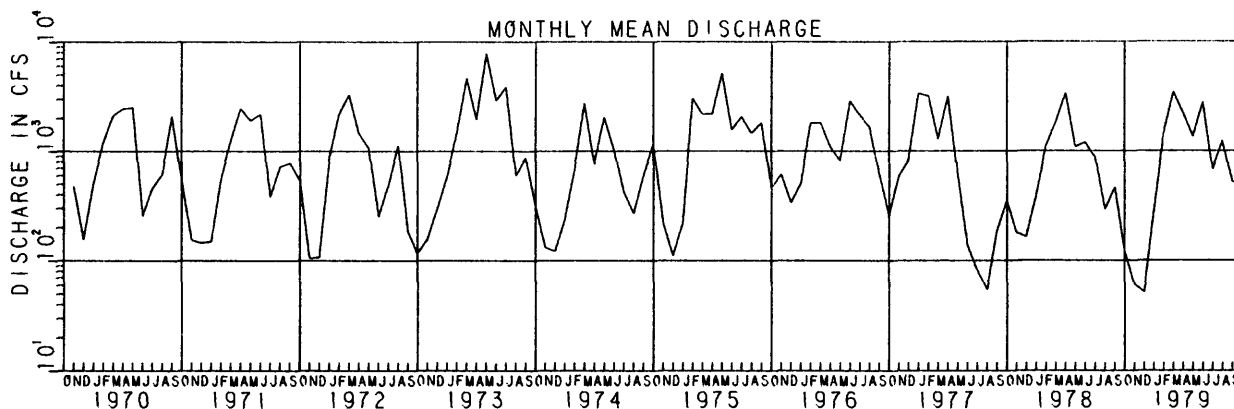
LOCATION.--Lat 30°33'14", long 84°23'03", in SE¼ sec.24, T.2 N., R.2 W., Leon County, Hydrologic Unit 03120003, at bridge on divided U.S. Highway 27, 0.8 mi (1.3 km) upstream from Seaboard Air Line Railroad bridge, 4.0 mi (6.4 km) downstream from Mill Creek, 5.0 mi (8.0 km) southeast of Havana, and 94 mi (151 km) upstream from mouth.

DRAINAGE AREA.--1,140 mi<sup>2</sup> (2,950 km<sup>2</sup>), approximately. At site used prior to January 1929, 1,220 mi<sup>2</sup> (3,160 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--June 1926 to September 1979.

AVERAGE DISCHARGE.--53 years, 1,031 ft<sup>3</sup>/s (29.20 m<sup>3</sup>/s), 12.28 in/yr, (312 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,900 ft<sup>3</sup>/s (1,580 m<sup>3</sup>/s) Apr. 4, 1948; minimum, 17 ft<sup>3</sup>/s (0.48 m<sup>3</sup>/s) Oct. 23-28, Nov. 1, 1954.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	19358	100.0	12	240.0	1378	13330	68.9	24	4400.0	309	707	3.6
1	17.0	31	19358	100.0	13	310.0	1214	11952	61.7	25	5600.0	192	398	2.0
2	22.0	65	19327	99.8	14	390.0	1337	10738	55.5	26	7100.0	83	206	1.0
3	28.0	203	19262	99.5	15	500.0	1163	9401	48.6	27	9000.0	55	123	.6
4	35.0	284	19059	98.5	16	630.0	1199	8238	42.6	28	11000.0	45	68	.3
5	45.0	349	18775	97.0	17	810.0	1015	7039	36.4	29	15000.0	16	23	.1
6	57.0	482	18426	95.2	18	1000.0	1262	6024	31.1	30	19000.0	4	7	
7	72.0	634	17944	92.7	19	1300.0	1306	4762	24.6	31	24000.0	0	3	
8	92.0	969	17310	89.4	20	1700.0	890	3456	17.9	32	30000.0	1	3	
9	120.0	861	16341	84.4	21	2100.0	868	2566	13.3	33	38000.0	1	2	
10	150.0	974	15480	80.0	22	2700.0	550	1698	8.8	34	49000.0	1	1	
11	190.0	1176	14506	74.9	23	3400.0	441	1148	5.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
128	209	297	185	89	61	80	86	51	33	35	60

# OCHLOCKONEE RIVER

## OCHLOCKONEE RIVER BASIN

02327100 SOPCHOPPY RIVER NEAR SOPCHOPPY, FL

LOCATION.--Lat 30°07'45", long 84°29'40" in NW¼ sec.24, T.4 S., R.3 W., Wakulla County, Hydrologic Unit 03120003, Apalachicola National Forest, at bridge on U.S. Forest Road 346A, 4.7 mi (7.6 km) north of Sopchoppy, 5.2 mi (8.4 km) upstream from Duval Branch, and 24 mi (39 km) upstream from mouth.

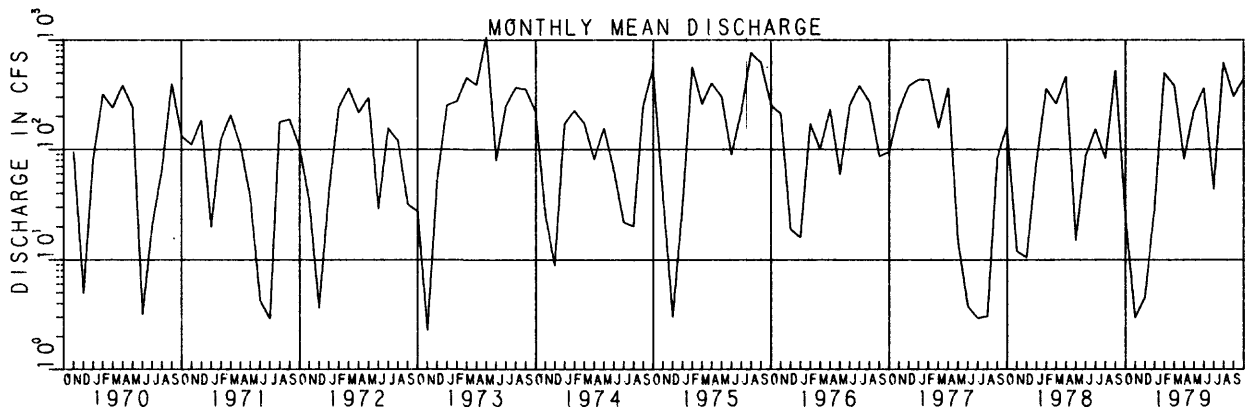
DRAINAGE AREA.--102 mi<sup>2</sup> (264.2 km<sup>2</sup>).

PERIOD OF RECORD.--June 1964 to September 1979.

REMARKS.--Hydrologic benchmark station.

AVERAGE DISCHARGE.--15 years, 196 ft<sup>3</sup>/s (5.551 m<sup>3</sup>/s), 26.10 in/yr (663 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,260 ft<sup>3</sup>/s (149 m<sup>3</sup>/s) July 31, 1975; minimum, 1.0 ft<sup>3</sup>/s (0.028 m<sup>3</sup>/s) June 29 to July 3, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5478	100.0	12	17.0	190	3857	70.4	24	360.0	269	919	16.7
1	1.0	5	5478	100.0	13	22.0	187	3667	66.9	25	470.0	229	650	11.8
2	1.3	46	5473	99.9	14	28.0	173	3480	63.5	26	610.0	171	421	7.6
3	1.7	78	5427	99.1	15	36.0	212	3307	60.4	27	780.0	108	250	4.5
4	2.2	135	5349	97.6	16	47.0	193	3095	56.5	28	1000.0	68	142	2.5
5	2.8	266	5214	95.2	17	60.0	261	2902	53.0	29	1300.0	24	74	1.3
6	3.6	212	4948	90.3	18	78.0	289	2641	48.2	30	1700.0	21	50	.9
7	4.7	159	4736	86.5	19	100.0	296	2352	42.9	31	2200.0	11	29	.5
8	6.0	172	4577	83.6	20	130.0	259	2056	37.5	32	2800.0	11	18	.3
9	7.8	174	4405	80.4	21	170.0	296	1797	32.8	33	3700.0	5	7	.1
10	10.0	171	4231	77.2	22	220.0	297	1501	27.4	34	4700.0	2	2	
11	13.0	203	4060	74.1	23	280.0	285	1204	22.0					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
22	29	12	3.0	1.6	1.3	2.6	10	2.9	2.2	2.4	3.2

OCHLOCKONEE RIVER  
OCHLOCKONEE RIVER BASIN

02329500 LITTLE RIVER NEAR QUINCY, FL

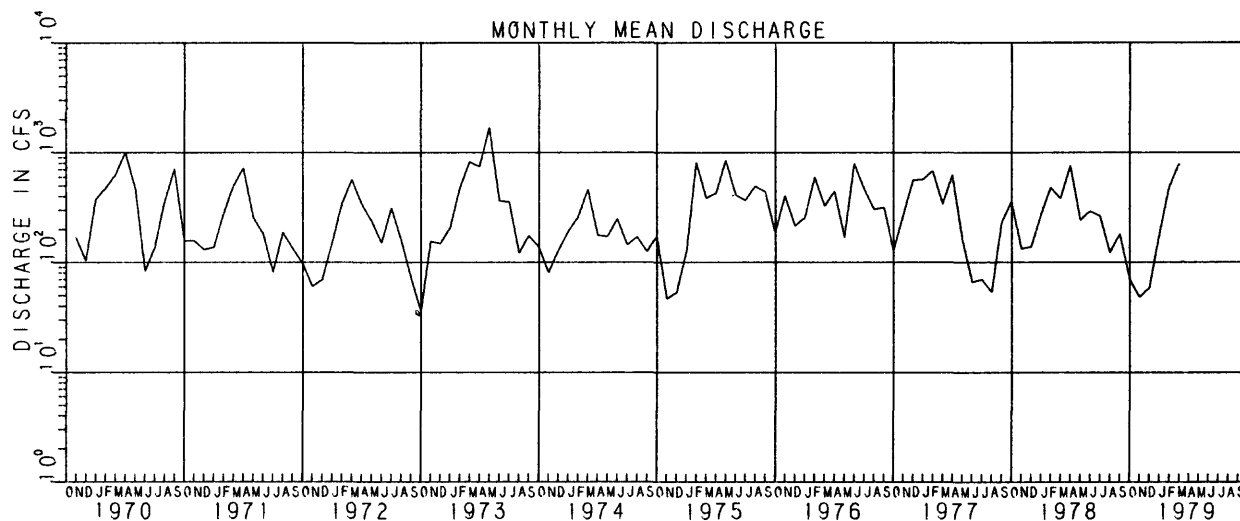
LOCATION.--Lat 30°35'14", long 84°29'48", in NW¼ sec.12, T.2 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, near right bank at bridge on State Highway 12, 0.5 mi (0.8 km) southwest of Shady Rest, 1.1 mi (1.8 km) downstream from confluence of Willacoochee and Attapulgis Creeks, 4.5 mi (7.2 km) east of Quincy, and 12 mi (19 km) upstream from mouth. Prior to June 5, 1978, 50 ft (15.2 m) downstream.

DRAINAGE AREA.--237 mi<sup>2</sup> (614 km<sup>2</sup>).

PERIOD OF RECORD.--April 1950 to March 1979.

AVERAGE DISCHARGE.--28 years (water years 1951-78), 292 ft<sup>3</sup>/s (8.269 m<sup>3</sup>/s) 16.73 in/yr, (425 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,600 ft<sup>3</sup>/s (1,290 m<sup>3</sup>/s) Sept. 22, 1969; from minimum, 6.7 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) Oct. 5, 6, 1968 on July 2, 1969.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	10227	100.0	12	93.0	958	7088	69.3	24	1400.0	105	237	2.3
1	7.5	13	10227	100.0	13	120.0	830	6130	59.9	25	1800.0	42	132	1.2
2	9.4	11	10214	99.9	14	150.0	763	5300	51.8	26	2300.0	30	90	.8
3	12.0	39	10203	99.8	15	180.0	919	4537	44.4	27	2900.0	15	60	.5
4	15.0	41	10164	99.4	16	230.0	772	3618	35.4	28	3600.0	21	45	.4
5	19.0	129	10123	99.0	17	290.0	702	2846	27.8	29	4500.0	12	24	.2
6	24.0	172	9994	97.7	18	370.0	528	2144	21.0	30	5700.0	4	12	.1
7	30.0	178	9822	96.0	19	460.0	488	1616	15.8	31	7200.0	3	8	
8	37.0	454	9644	94.3	20	580.0	371	1128	11.0	32	9000.0	1	5	
9	47.0	647	9190	89.9	21	730.0	246	757	7.4	33	11000.0	1	4	
10	59.0	700	8543	83.5	22	910.0	141	511	5.0	34	14000.0	3	3	
11	74.0	755	7843	76.7	23	1100.0	133	370	3.6					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
77	109	84	52	30	19	29	32	22	21	38	61

# OCHLOCKONEE RIVER

## OCHLOCKONEE RIVER BASIN

02329700 ROCKY COMFORT CREEK NEAR QUINCY, FL

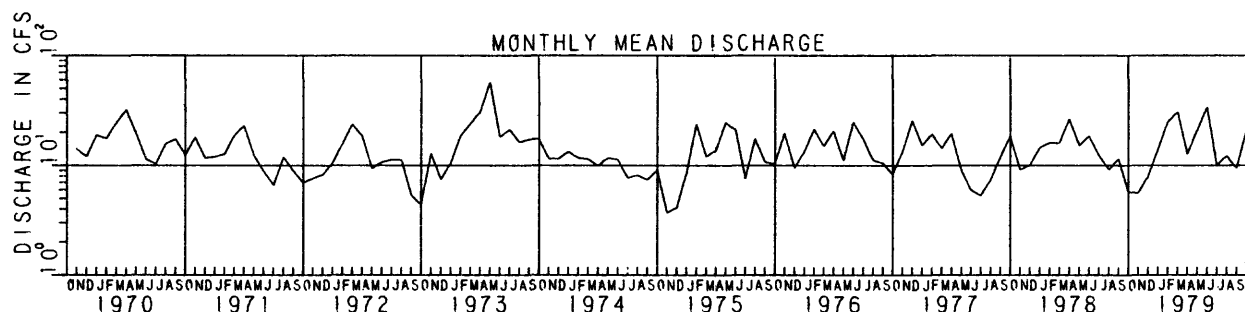
LOCATION.--Lat 30°32'44", long 84°38'09", in NE¼ sec.28, T.2 N., R.4 W., Gadsden County, Hydrologic Unit 03120003, at culverts on State Highway 274, 1.3 mi (2.1 km) upstream from Vote Creek, 4.5 mi (7.2 km) southwest of Quincy, and 9.2 mi (14.8 km) upstream from mouth.

DRAINAGE AREA.--9.46 mi<sup>2</sup> (24.50 km<sup>2</sup>).

PERIOD OF RECORD.--October 1964 to September 1979.

AVERAGE DISCHARGE.--15 years, 15.7 ft<sup>3</sup>/s (0.445 m<sup>3</sup>/s), 22.59 in/yr (574 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,610 ft<sup>3</sup>/s (216 m<sup>3</sup>/s) Sept. 21, 1969; minimum, 0.86 ft<sup>3</sup>/s (0.024 m<sup>3</sup>/s) July 1, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5478	100.0	12	9.1	492	3454	63.1	24	100.0	14	58	1.0
1	1.0	2	5478	100.0	13	11.0	1088	2962	54.1	25	120.0	14	44	.8
2	1.2	3	5476	100.0	14	14.0	728	1874	34.2	26	150.0	13	30	.5
3	1.5	9	5473	99.9	15	17.0	350	1146	20.9	27	180.0	5	17	.3
4	1.8	7	5464	99.7	16	20.0	276	796	14.5	28	220.0	3	12	.2
5	2.2	20	5457	99.6	17	25.0	145	520	9.5	29	270.0	2	9	.1
6	2.7	55	5437	99.3	18	30.0	108	375	6.8	30	330.0	2	7	.1
7	3.3	222	5382	98.2	19	37.0	68	267	4.9	31	410.0	2	5	
8	4.1	210	5160	94.2	20	45.0	56	199	3.6	32	500.0	1	3	
9	5.0	401	4950	90.4	21	55.0	26	143	2.6	33	610.0	1	2	
10	6.1	473	4549	83.0	22	67.0	33	117	2.1	34	750.0	1	1	
11	7.4	622	4076	74.4	23	82.0	26	84	1.5					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
6.4	7.2	5.9	5.0	4.4	2.5	3.0	3.9	3.2	3.6	4.1	5.8

# OCHLOCKONEE RIVER

## OCHLOCKONEE RIVER BASIN

02330000 OCHLOCKONEE RIVER NEAR BLOXHAM, FL

LOCATION.--Lat 30°22'59", long 84°39'18", in NE¼ sec.20, T.1 S., R.4 W., Liberty County, Hydrologic Unit 03120003, at bridge on State Highway 20, 3,000 ft (914 m) downstream from control structure, 1.5 mi (2.4 km) southwest of Bloxham, and 65 mi (105 km) upstream from mouth.

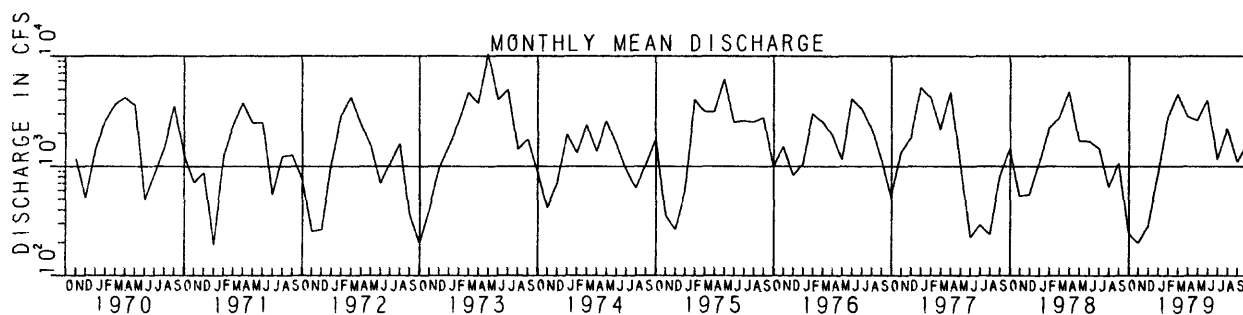
DRAINAGE AREA.--1,700 mi<sup>2</sup> (4,403 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--June 1926 to September 1979.

REMARKS.--Flow regulated since 1929 by control structure above station and storage in Lake Talquin. Low flow records prior to October 1, 1956 include an undetermined amount of inflow from seepage. No low-flow data contained in Hughes (1981), or listed below.

AVERAGE DISCHARGE.--28 years (1926-54), 1,614 ft<sup>3</sup>/s (45.71 m<sup>3</sup>/s), 12.74 in/yr (324 mm/yr), unadjusted; 25 years (1955-79) corrected, 1,806 ft<sup>3</sup>/s (51.15 m<sup>3</sup>/s) 14.43 in/yr (366 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 89,400 ft<sup>3</sup>/s (2,530 m<sup>3</sup>/s) Sept. 23, 1969; minimum discharge, since October 1954, 1.0 ft<sup>3</sup>/s (0.028 m<sup>3</sup>/s) Nov. 1, 2, 1957, caused by closure of breaks in earth embankment of Jackson Bluff Dam (indeterminate prior to October 1954).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	20	19358	100.0	12	42.0	563	18908	97.7	24	2400.0	1807	4543	23.4
1	1.0	20	19338	99.9	13	59.0	349	18345	94.8	25	3400.0	1574	2736	14.1
2	1.4	2	19318	99.8	14	82.0	381	17996	93.0	26	4800.0	695	1162	6.0
3	2.0	16	19316	99.8	15	120.0	547	17615	91.0	27	6800.0	284	467	2.4
4	2.8	12	19300	99.7	16	160.0	940	17068	88.2	28	9500.0	105	183	.9
5	3.9	9	19288	99.6	17	230.0	888	16128	83.3	29	13000.0	53	78	.4
6	5.4	29	19279	99.6	18	320.0	1131	15240	78.7	30	19000.0	14	25	.1
7	7.7	28	19250	99.4	19	450.0	1438	14109	72.9	31	26000.0	4	11	
8	11.0	27	19222	99.3	20	630.0	1862	12671	65.5	32	37000.0	4	7	
9	15.0	39	19195	99.2	21	880.0	1976	10809	55.8	33	52000.0	2	3	
10	21.0	56	19156	99.0	22	1200.0	2198	8833	45.6	34	73000.0	1	1	
11	30.0	192	19100	98.7	23	1700.0	2092	6635	34.3					

# OCHLOCKONEE RIVER

## OCHLOCKONEE RIVER BASIN

02330100 TELOGIA CREEK NEAR BRISTOL, FL

LOCATION.--Lat 30°25'35", long 84°55'40", in NW¼ sec.3, T.1 S., R.7 W., Liberty County, Hydrologic Unit 03120003, at bridge on State Highway 20, 600 ft (180 m) upstream from White Branch, 3.0 mi (4.8 km) east of Bristol, and 33 mi (53 km) upstream from mouth.

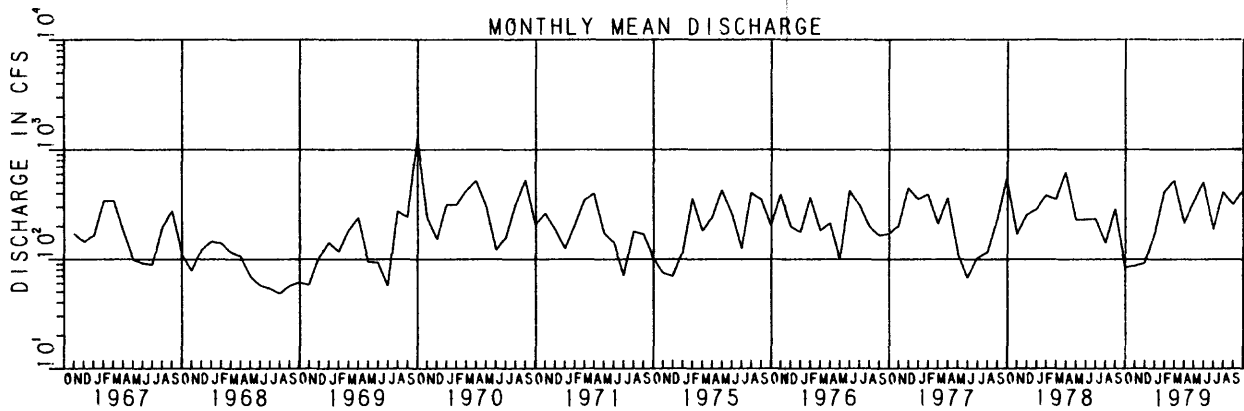
DRAINAGE AREA.--126 mi<sup>2</sup> (326 km<sup>2</sup>).

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

REMARKS.--Some diurnal fluctuation at low flow. Many small reservoirs above station for irrigation supply.

AVERAGE DISCHARGE.--26 years, (water years 1950-71, 1975-79) 222 ft<sup>3</sup>/s (6.287 m<sup>3</sup>/s), 23.94 in/yr (608 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,600 ft<sup>3</sup>/s (583 m<sup>3</sup>/s) Sept. 22, 1969; minimum, 28 ft<sup>3</sup>/s (0.79 m<sup>3</sup>/s) Sept. 14, Oct. 26, 27, 1954.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	9496	100.0	12	180.0	777	3518	37.0	24	1400.0	29	88	.9
1	28.0	25	9496	100.0	13	220.0	595	2741	28.9	25	1700.0	18	59	.6
2	33.0	72	9471	99.7	14	260.0	504	2146	22.6	26	2000.0	16	41	.4
3	39.0	217	9399	99.0	15	310.0	349	1642	17.3	27	2400.0	4	25	.2
4	47.0	307	9182	96.7	16	360.0	312	1293	13.6	28	2800.0	6	21	.2
5	55.0	556	8875	93.5	17	430.0	216	981	10.3	29	3300.0	9	15	.1
6	66.0	678	8319	87.6	18	510.0	190	765	8.1	30	3900.0	2	6	
7	78.0	856	7641	80.5	19	600.0	202	575	6.1	31	4700.0	1	4	
8	92.0	857	6785	71.5	20	720.0	108	373	3.9	32	5500.0	1	3	
9	110.0	862	5928	62.4	21	850.0	89	265	2.8	33	6600.0	0	2	
10	130.0	695	5066	53.3	22	1000.0	43	176	1.9	34	7800.0	2	2	
11	150.0	853	4371	46.0	23	1200.0	45	133	1.4					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
68	86	66	59	47	43	49	57	46	44	52	62

APALACHICOLA, CHATTAHOOCHEE, AND FLINT RIVERS  
COASTAL AREA BETWEEN OCHLOCKONEE RIVER AND APALACHICOLA RIVER  
02330300 NEW RIVER NEAR WILMA, FL

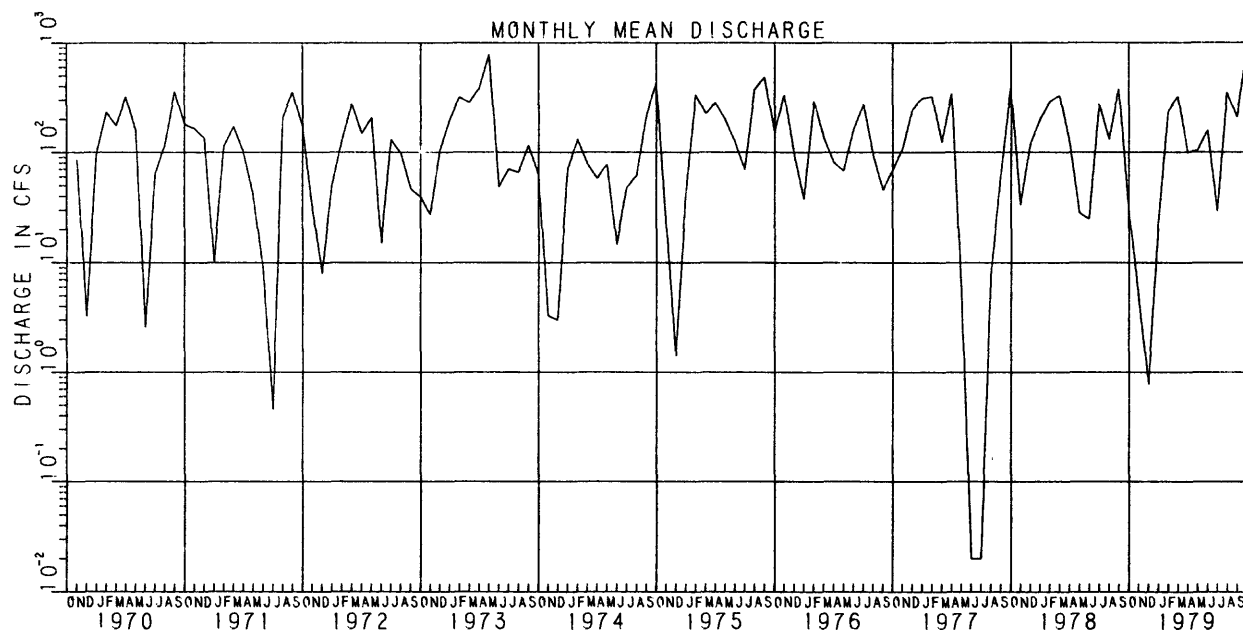
LOCATION.--Lat 30°07'40", long 84°53'45", in SW¼ sec.13, T.4 S., R.7 W., Liberty County, Hydrologic Unit 03130013, Apalachicola National Forest, at Carr Bridge on U.S. Forest road 13, 2.2 miles (3.5 km) upstream from West Prong New River, 4.5 miles (7.2 km) southeast of Wilma, and 40 miles (64 km) upstream from mouth.

DRAINAGE AREA.--81.7 mi<sup>2</sup> (211.6 km<sup>2</sup>).

PERIOD OF RECORD.--October 1964 to September 1979.

AVERAGE DISCHARGE.--15 years, 167 ft<sup>3</sup>/s, (4.729 m<sup>3</sup>/s), 27.76 in/yr (705 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,810 ft<sup>3</sup>/s (249 m<sup>3</sup>/s) Sept. 22, 1969; no flow at times most years.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	131	5478	100.0	12	1.3	86	5045	92.1	24	190.0	546	1442	26.3
1	0.0	5	5347	97.6	13	2.0	132	4959	90.5	25	290.0	391	896	16.3
2	0.0	15	5342	97.5	14	3.0	163	4827	88.1	26	430.0	264	505	9.2
3	0.0	11	5327	97.2	15	4.6	192	4664	85.1	27	650.0	153	241	4.3
4	0.0	15	5316	97.0	16	7.0	205	4472	81.6	28	990.0	51	88	1.6
5	0.1	5	5301	96.8	17	11.0	244	4267	77.9	29	1500.0	20	37	.6
6	0.1	32	5296	96.7	18	16.0	250	4023	73.4	30	2300.0	10	17	.3
7	0.2	49	5264	96.1	19	24.0	301	3773	68.9	31	3400.0	4	7	.1
8	0.3	29	5215	95.2	20	36.0	427	3472	63.4	32	5200.0	1	3	
9	0.4	42	5186	94.7	21	55.0	481	3045	55.6	33	7800.0	2	2	
10	0.6	46	5144	93.9	22	83.0	583	2564	46.8					
11	0.9	53	5098	93.1	23	130.0	539	1981	36.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
20	25	8.0	0.91	0.00	0.00	0.75	6.9	1.7	0.04	0.27	2.2

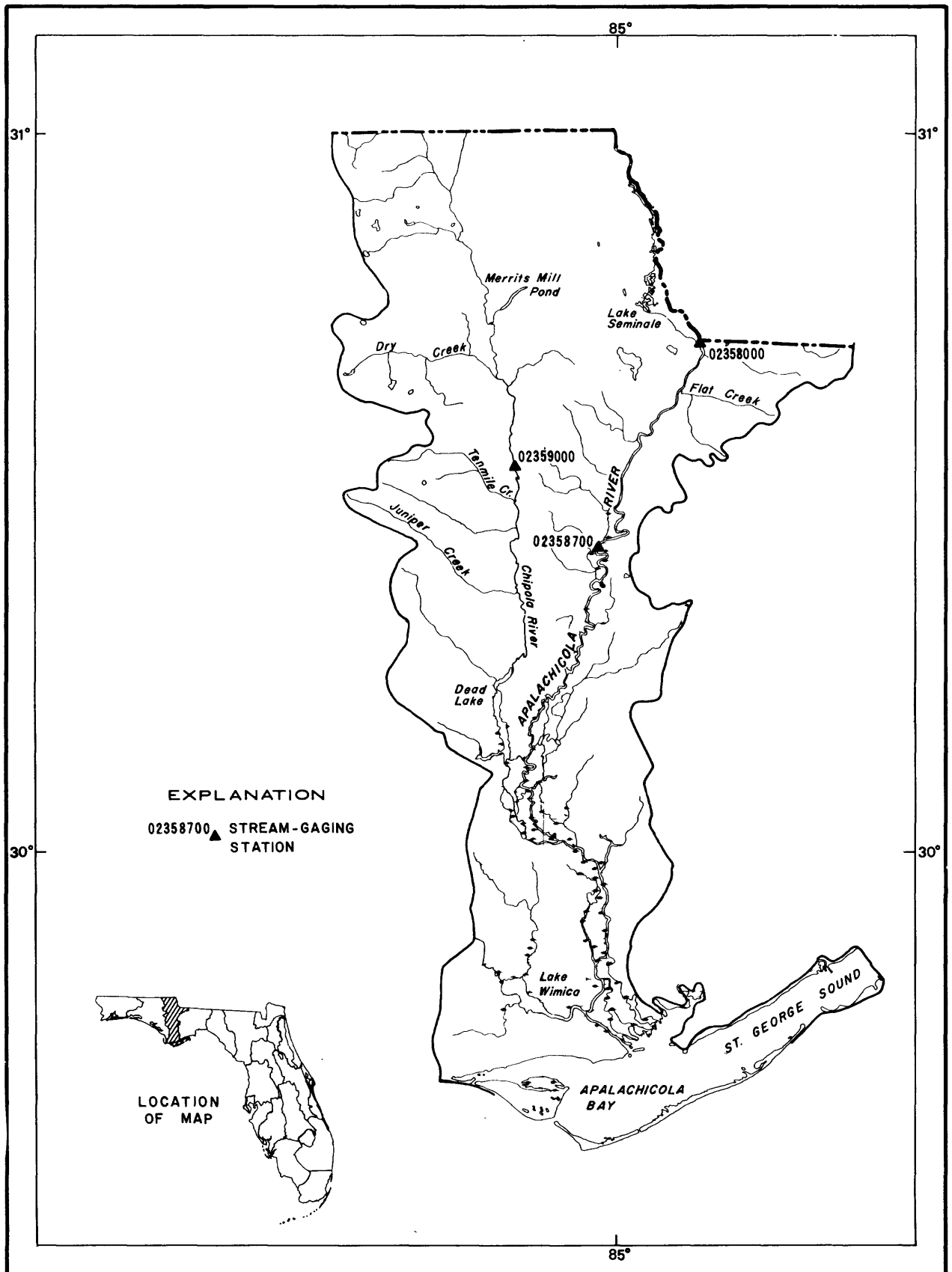


Figure 17.--Stations in the Apalachicola River basin including the Chipola River basin.

APALACHICOLA, CHATTAHOOCHEE, AND FLINT RIVERS

APALACHICOLA RIVER

02358000 APALACHICOLA RIVER AT CHATTAHOOCHEE, FL

LOCATION.--Lat 30°42'03", long 84°51'33", in NW¼ sec.32, T.4 N., R.6 W., Jackson County, Hydrologic Unit 03130011, at bridge on U.S. Highway 90, 0.6 mile (1.0 km) downstream from Jim Woodruff Dam, 0.6 mile (1.0 km) upstream from Mosquito Creek, 1 mile (1.6 km) west of Chattahoochee, and 106 miles (171 km) upstream from mouth.

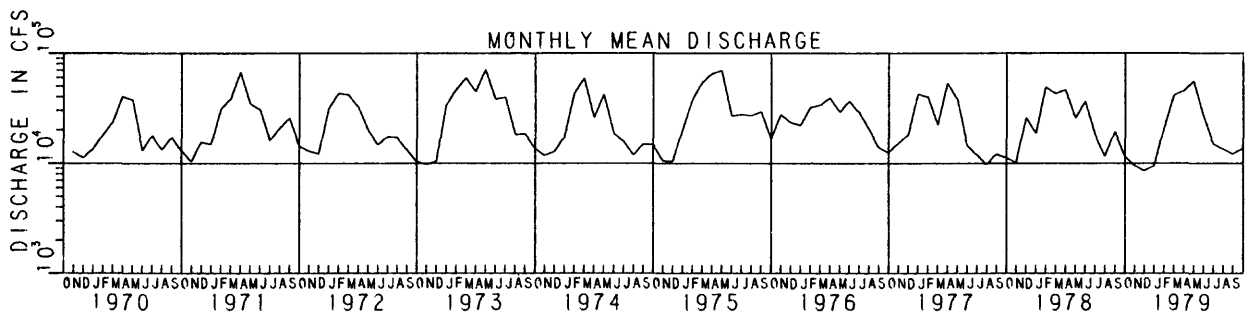
DRAINAGE AREA.--17,200 mi<sup>2</sup> (44,500 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1928 to September 1979.

REMARKS.--Flow regulated by Lake Seminole Reservoir 0.6 mile (1.0 km) upstream since Feb. 4, 1957, Walter F. George Lake since 1962, Bartlett's Ferry Reservoir since 1926, West Point Lake since October 1974, and Lake Sidney Lanier Reservoir since 1956.

AVERAGE DISCHARGE.--51 years, 22,517 ft<sup>3</sup>/s (637.7 m<sup>3</sup>/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 293,000 ft<sup>3</sup>/s (8,300 m<sup>3</sup>/s) Mar. 20, 1929; minimum, 4,950 ft<sup>3</sup>/s (140 m<sup>3</sup>/s) Oct. 27, 1954.



STATION NUMBER 02358000

DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	18627	100.0	12	19000.0	1574	7794	41.8	24	84000.0	72	244	1.3
1	5010.0	137	18627	100.0	13	22000.0	995	6220	33.4	25	94000.0	70	172	.9
2	5700.0	194	18490	99.3	14	25000.0	834	5225	28.1	26	110000.0	24	102	.5
3	6400.0	318	18296	98.2	15	28000.0	646	4391	23.6	27	120000.0	42	78	.4
4	7200.0	523	17978	96.5	16	31000.0	787	3745	20.1	28	140000.0	12	36	.1
5	8200.0	856	17455	93.7	17	35000.0	692	2958	15.9	29	150000.0	9	24	.1
6	9200.0	735	16599	89.1	18	40000.0	534	2266	12.2	30	170000.0	5	15	
7	10000.0	2272	15864	85.2	19	45000.0	450	1732	9.3	31	200000.0	3	10	
8	12000.0	1288	13592	73.0	20	51000.0	404	1282	6.9	32	220000.0	2	7	
9	13000.0	1850	12304	66.1	21	58000.0	284	878	4.7	33	250000.0	2	5	
10	15000.0	1431	10454	56.1	22	65000.0	216	594	3.2	34	280000.0	3	3	
11	17000.0	1229	9023	48.4	23	74000.0	134	378	2.0					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
10790	12360	15850	13730	10290	8820	8623	8125	7059	6474	6595	7723

# APALACHICOLA, CHATTAHOOCHEE, AND FLINT RIVERS

## APALACHICOLA RIVER

02358700 APALACHICOLA RIVER NEAR BLOUNTSTOWN, FL

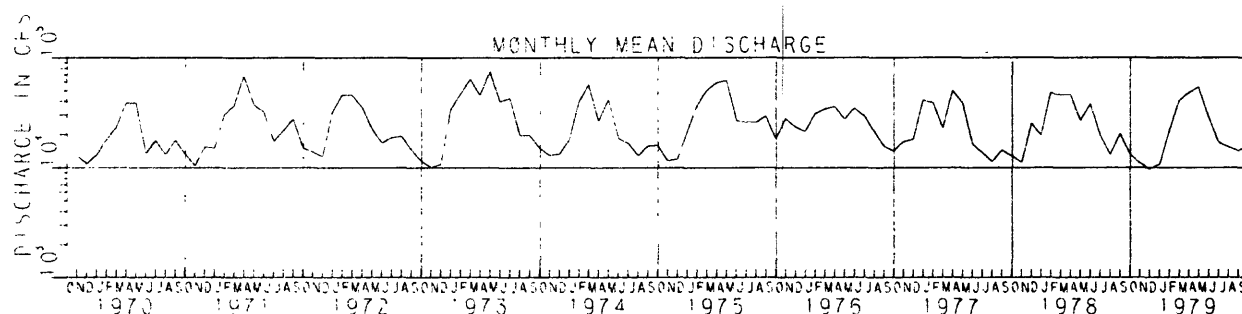
LOCATION.--Lat 30°25'30", long 85°01'53", in NE¼ sec.3, T.1 S., R.8 W., Calhoun County, Hydrologic Unit 03130011, 500 ft (152 m) upstream from Neal Lumber Company Landing at McNeal, 0.5 mi (0.8 km) upstream from Old River cutoff, 1.5 mi (2.4 km) southeast of Blountstown, and 78 mi (126 km) upstream from mouth.

DRAINAGE AREA.--17,600 mi (45,600 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1957 to September 1979.

AVERAGE DISCHARGE.--22 years, 24,712 ft<sup>3</sup>/s (699.8 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 172,000 ft<sup>3</sup>/s (4,871 m<sup>3</sup>/s) Jan. 29, 1978; minimum daily, 6,280 ft<sup>3</sup>/s (178 m<sup>3</sup>/s) Oct. 29, 1962.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	21053	100.0	12	19000.0	1198	9421	44.7	24	82000.0	144	376	1.7
1	4700.0	34	21053	100.0	13	21000.0	1493	8223	39.0	25	92000.0	73	232	1.1
2	5400.0	113	21029	99.3	14	24000.0	1183	6730	32.0	26	100000.0	83	159	.7
3	6100.0	260	20916	99.3	15	27000.0	922	5547	26.3	27	120000.0	24	76	.3
4	6900.0	508	20656	98.1	16	30000.0	1044	4625	22.0	28	130000.0	27	52	.2
5	7800.0	749	20144	95.7	17	34000.0	770	3581	17.0	29	150000.0	13	25	.1
6	8900.0	994	19399	92.1	18	39000.0	570	2811	13.3	30	170000.0	2	12	
7	10000.0	859	18400	87.4	19	44000.0	540	2241	10.6	31	190000.0	4	10	
8	11000.0	2575	17541	83.3	20	50000.0	412	1701	8.1	32	220000.0	1	6	
9	13000.0	2275	14955	71.0	21	56000.0	414	1289	6.1	33	250000.0	2	5	
10	15000.0	423	12646	60.2	22	64000.0	280	875	4.2	34	280000.0	3	3	
11	16000.0	2342	11763	55.8	23	72000.0	219	595	2.8					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL, (7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
11040	12520	16620	14460	10570	9388	9216	8489	7390	6814	7038	8262

APALACHICOLA, CHATTAHOOCHEE, AND FLINT RIVERS

CHIPOLA RIVER BASIN

02359000 CHIPOLA RIVER NEAR ALTHA, FL

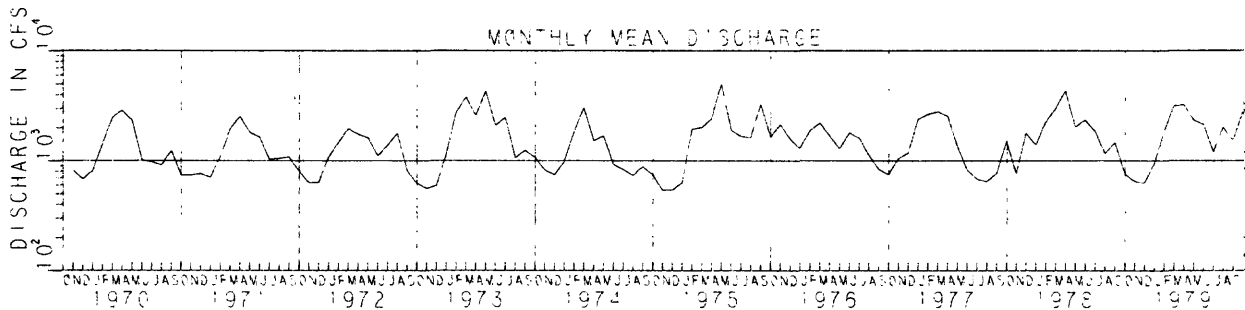
LOCATION.--Lat 30°32'02", long 85°09'55", in NW¼ sec.32, T.2 N., R.9 W., Calhoun County, Hydrologic Unit 03130012, at bridge on State Highway 274, 0.9 mi (1.4 km) downstream from Holliman Branch, 3.5 mi (5.6 km) southwest of Altha, and 54 mi (87 km) upstream from mouth.

DRAINAGE AREA.--781 mi<sup>2</sup> (2,023 km<sup>2</sup>).

PERIOD OF RECORD.--November 1912 to December 1913, September 1921 to September 1927, August 1929 to September 1931, March 1943 to September 1979.

AVERAGE DISCHARGE.--44 years (water years 1922-27, 1930-31, 1944-79), 1,502 ft<sup>3</sup>/s (42.54 m<sup>3</sup>/s), 26.12 in/yr (663 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft<sup>3</sup>/s (708 m<sup>3</sup>/s) Sept. 20, 1926; minimum, 330 ft<sup>3</sup>/s (9.35 m<sup>3</sup>/s) Oct. 31, Nov. 1, 2, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	16070	100.0	12	1200.0	1309	7536	46.9	24	5500.0	92	234	1.4
1	312.0	14	16070	100.0	13	1400.0	1090	6227	38.7	25	6200.0	39	142	.8
2	350.0	129	16056	99.9	14	1600.0	911	5137	32.0	26	7000.0	31	103	.6
3	400.0	196	15927	99.1	15	1800.0	776	4226	26.3	27	8000.0	20	72	.4
4	450.0	277	15731	97.9	16	2000.0	981	3450	21.5	28	9000.0	12	52	.3
5	510.0	586	15454	96.2	17	2300.0	664	2469	15.4	29	10000.0	12	40	.2
6	580.0	829	14868	92.5	18	2600.0	417	1805	11.2	30	12000.0	13	28	.1
7	660.0	1195	14039	87.4	19	2900.0	430	1388	8.6	31	13000.0	5	15	
8	750.0	1585	12844	79.9	20	3300.0	360	958	6.0	32	15000.0	2	10	
9	850.0	1459	11259	70.1	21	3800.0	188	598	3.7	33	17000.0	2	8	
10	960.0	1390	9800	61.0	22	4300.0	93	410	2.6	34	19000.0	6	6	
11	1100.0	874	8410	52.3	23	4800.0	83	317	2.0					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
617	789	880	783	651	551	573	569	518	468	467	510

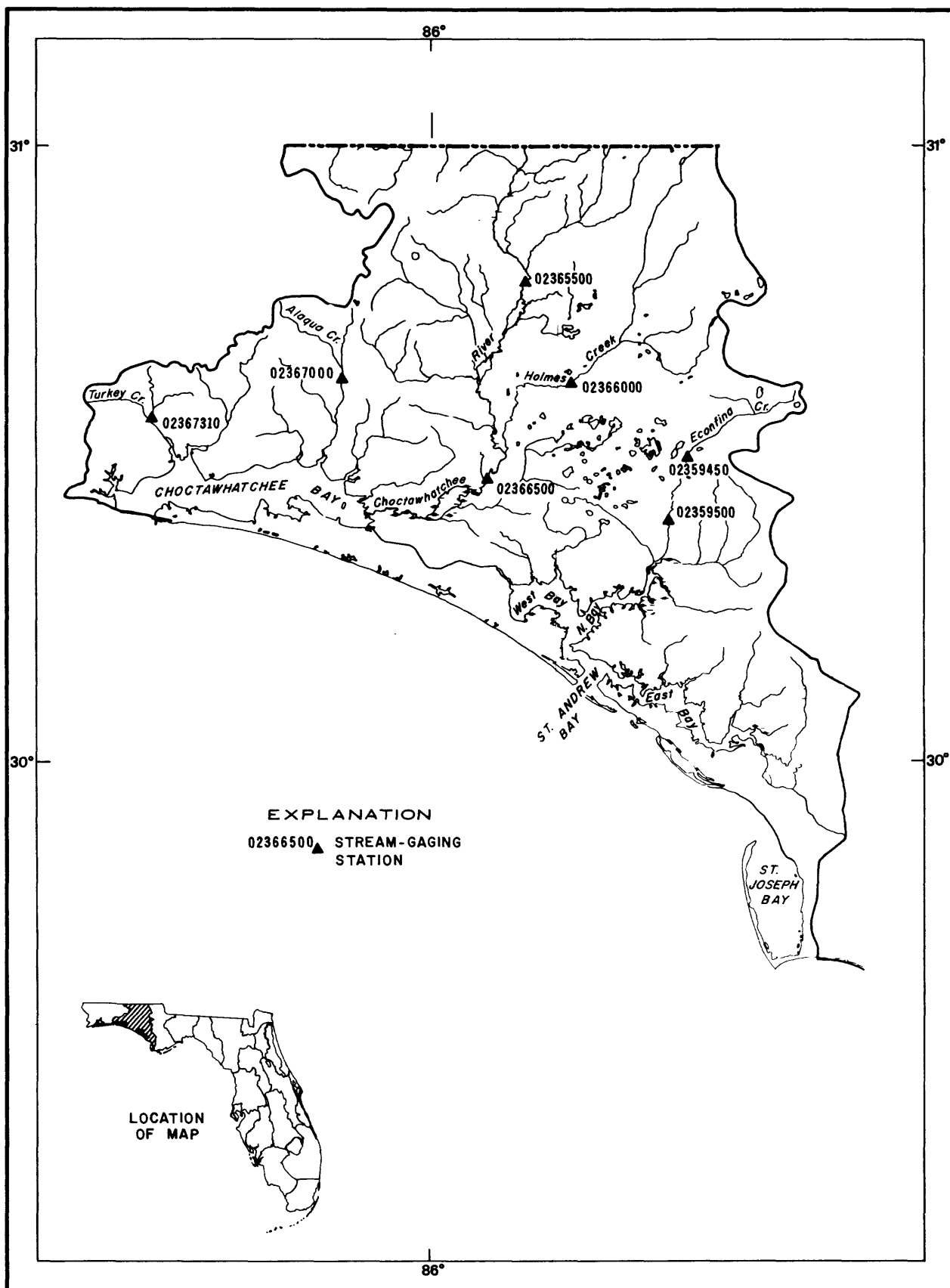


Figure 18.-- Stations in Choctawhatchee River basin below Pea River, and inflow areas for St. Andrew and Choctawhatchee Bays

CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

ST. ANDREW BAY, INFLOW AND COASTAL AREA

02359450 ECONFINA CREEK NEAR FOUNTAIN, FL

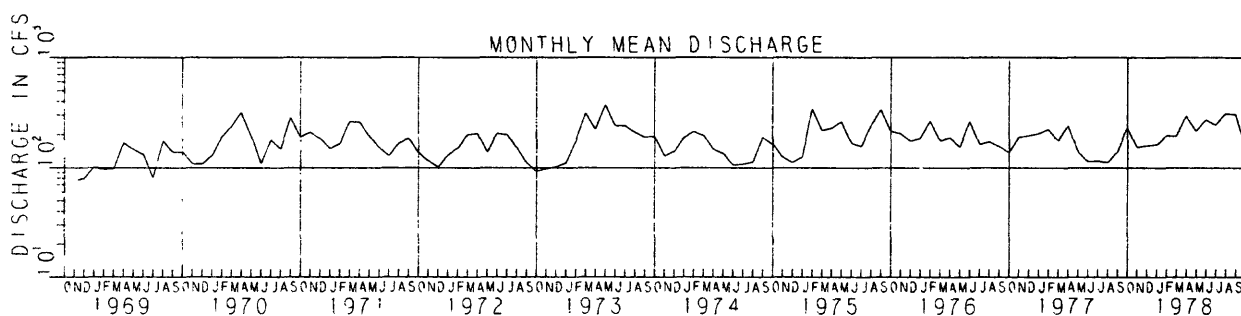
LOCATION.--Lat 30°28'55", long 85°31'30", in SE¼ sec.15, T.1 N., R.13 W., Washington County, Hydrologic Unit 03140101, at Walsingham Bridge on county road, 0.2 mi (0.3 km) upstream from Mitchell Mill Creek, 6.0 mi (9.7 km) west of Fountain, and 23 mi (37 km) upstream from mouth.

DRAINAGE AREA.--70.2 mi<sup>2</sup> (181.8 km<sup>2</sup>).

PERIOD OF RECORD.--January 1965 to September 1978.

AVERAGE DISCHARGE.--13 years, 173 ft<sup>3</sup>/s (4.899 m<sup>3</sup>/s), 33.47 in/yr (850 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft<sup>3</sup>/s (63.4 m<sup>3</sup>/s) Feb. 2, 1973; minimum, 56 ft<sup>3</sup>/s (1.59 m<sup>3</sup>/s) Sept. 15, 16, Oct. 2, 3, 5, 6, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	4748	100.0	12	160.0	540	2002	42.2	24	520.0	21	74	1.5
1	57.0	35	4748	100.0	13	190.0	387	1462	30.8	25	570.0	15	53	1.1
2	63.0	33	4713	99.3	14	200.0	241	1075	22.6	26	630.0	7	38	.8
3	69.0	52	4680	98.6	15	220.0	162	834	17.6	27	690.0	10	31	.6
4	76.0	110	4628	97.5	16	240.0	137	672	14.2	28	760.0	7	21	.4
5	84.0	142	4518	95.2	17	260.0	144	535	11.3	29	840.0	6	14	.2
6	92.0	250	4376	92.2	18	290.0	97	391	8.2	30	920.0	2	8	.1
7	100.0	403	4126	86.9	19	320.0	68	294	6.2	31	1000.0	1	6	.1
8	110.0	314	3723	78.4	20	350.0	51	226	4.8	32	1100.0	2	5	.1
9	120.0	696	3409	71.8	21	390.0	41	175	3.7	33	1200.0	2	3	
10	140.0	402	2713	57.1	22	430.0	29	134	2.8	34	1400.0	1	1	
11	150.0	309	2311	48.7	23	470.0	31	105	2.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
102	110	111	98	85	78	85	88	80	78	82	80

CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

ST. ANDREW BAY, INFLOW AND COASTAL AREA

02359500 ECONFINA CREEK NEAR BENNETT, FL

LOCATION.--Lat 30°23'04", long 85°33'24", in SE¼ sec.20, T.1 S., R.13 W., Bay County, Hydrologic Unit 03140101, at bridge on State Highway 388, 0.5 mi (0.8 km) downstream from Old Mill Branch, 1.6 mi (2.6 km) southwest of Bennett, and 11 mi (18 km) upstream from mouth.

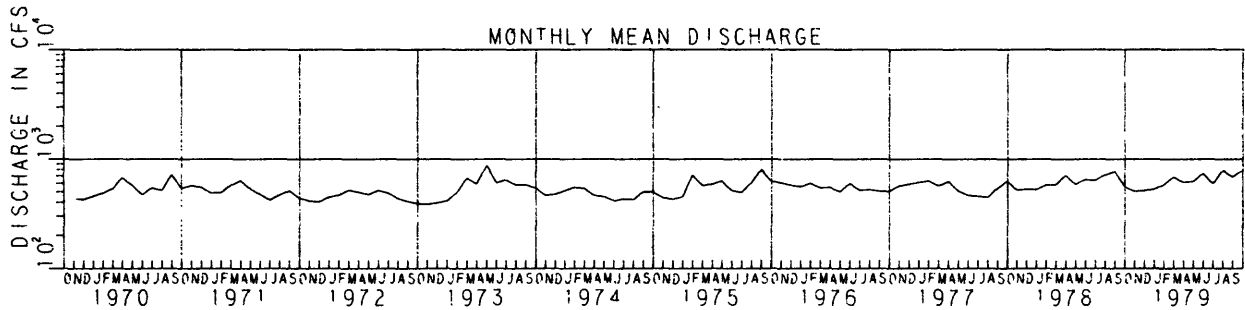
DRAINAGE AREA.--122 mi<sup>2</sup> (316 km<sup>2</sup>).

PERIOD OF RECORD.--October 1935 to September 1979.

REMARKS.--Flow includes ground-water inflow.

AVERAGE DISCHARGE.--44 years, 533 ft<sup>3</sup>/s (15.10 m<sup>3</sup>/s), 59.33 in/yr (1,507 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,860 ft<sup>3</sup>/s (138 m<sup>3</sup>/s) Apr. 2, 1948; minimum, 307 ft<sup>3</sup>/s (8.69 m<sup>3</sup>/s) Jan. 9, 1956.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	16071	100.0	12	650.0	695	2257	14.0	24	1600.0	7	22	.1
1	307.0	126	16071	100.0	13	700.0	485	1562	9.7	25	1700.0	2	15	
2	330.0	257	15945	99.2	14	750.0	321	1077	6.7	26	1800.0	7	13	
3	350.0	635	15688	97.6	15	800.0	254	756	4.7	27	2000.0	1	6	
4	380.0	783	15053	93.7	16	860.0	139	502	3.1	28	2100.0	1	5	
5	400.0	1681	14270	88.8	17	920.0	97	363	2.3	29	2200.0	1	4	
6	430.0	1730	12589	78.3	18	980.0	107	266	1.7	30	2400.0	0	3	
7	460.0	2500	10859	67.6	19	1100.0	53	159	1.0	31	2600.0	0	3	
8	500.0	1842	8359	52.0	20	1200.0	39	106	0.7	32	2800.0	2	3	
9	530.0	1962	6517	40.6	21	1300.0	15	67	0.4	33	3000.0	1	1	
10	570.0	1436	4555	28.3	22	1400.0	20	52	0.3					
11	610.0	862	3119	19.4	23	1500.0	10	32	0.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
383	390	392	383	372	367	378	397	390	380	379	379

# CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

## CHOCTAWHATCHEE RIVER BELOW PEA RIVER

02365500 CHOCTAWHATCHEE RIVER AT CARYVILLE, FL

LOCATION.--Lat 30°46'32", long 85°49'40", in NW 1/4 sec. 10, T. 4 N., R. 16 W., Holmes County, Hydrologic Unit 03140203, at bridge on U.S. Highway 90, 300 ft (91 m) downstream from Louisville and Nashville Railroad bridge, 0.8 mile (1.3 km) west of Caryville, 1.8 miles (2.9 km) downstream from Wrights Creek, and 64 miles (102 km) upstream from mouth.

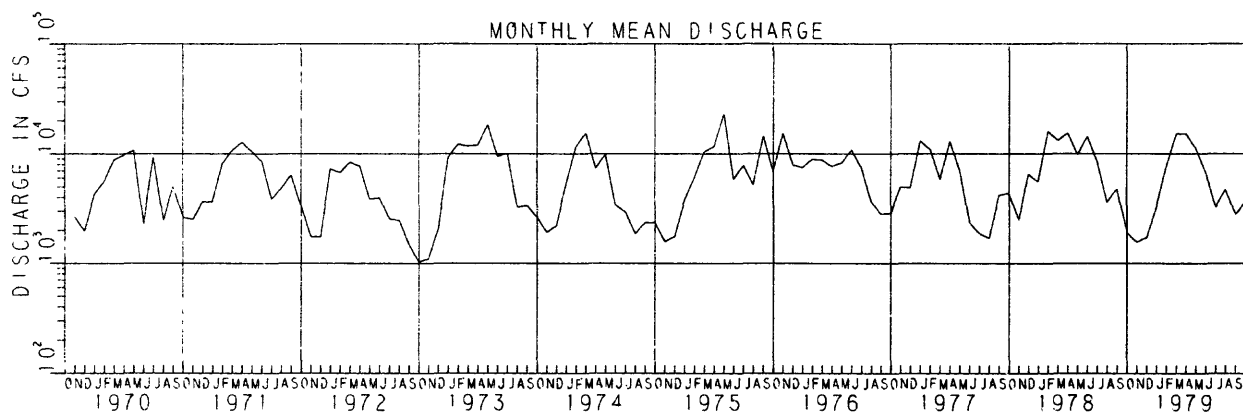
DRAINAGE AREA.--3,499 mi<sup>2</sup> (9,062 km<sup>2</sup>).

PERIOD OF RECORD.--August 1929 to September 1979.

AVERAGE DISCHARGE.--50 years, 5,531 ft<sup>3</sup>/s (156.6 m<sup>3</sup>/s), 21.46 in/yr (545 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 88,000 ft<sup>3</sup>/s (2,490 m<sup>3</sup>/s) Apr. 13 1975; minimum, 604 ft<sup>3</sup>/s (17.1 m<sup>3</sup>/s) Sept. 15, 1968.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Maximum stage since 1850 (from information furnished by Corps of Engineers, Mobile District) 27.1 ft (8.26 m) Mar. 17, 1929, discharge, 206,000 ft<sup>3</sup>/s (5,830 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	12262	100.0	12	3000.0	1348	11072	60.6	24	18000.0	145	710	3.8
1	604.0	22	18262	100.0	13	3500.0	1397	9724	53.2	25	20000.0	195	565	3.0
2	700.0	33	18240	99.9	14	4100.0	1162	8327	45.6	26	24000.0	99	370	2.0
3	810.0	167	18207	99.7	15	4700.0	1270	7165	39.2	27	27000.0	141	271	1.4
4	940.0	247	18040	98.8	16	5500.0	1013	5895	32.3	28	32000.0	63	130	.7
5	1100.0	504	17793	97.4	17	6300.0	943	4882	26.7	29	37000.0	35	67	.3
6	1300.0	742	17185	94.1	18	7300.0	848	3939	21.6	30	43000.0	15	32	.1
7	1500.0	904	16443	90.0	19	8500.0	659	3091	16.9	31	49000.0	9	17	
8	1700.0	1123	15539	85.1	20	9800.0	442	2432	13.3	32	57000.0	5	8	
9	2000.0	1127	14346	78.6	21	11000.0	577	1990	10.9	33	66000.0	2	3	
10	2300.0	1023	13219	72.4	22	13000.0	342	1413	7.7	34	77000.0	1	1	
11	2600.0	1124	12196	66.8	23	15000.0	361	1071	5.9					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2,240	2,670	3,030	2,430	1,460	1,150	1,220	1,170	934	1,000	1,100	1,550

# CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

## CHOCTAWHATCHEE RIVER BELOW PEA RIVER

02366000 HOLMES CREEK AT VERNON, FL

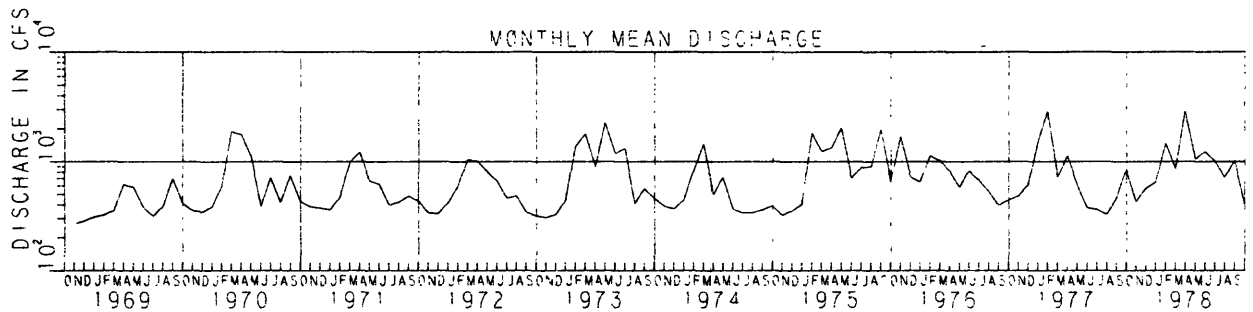
LOCATION.--Lat 30°37'35", long 85°42'45", in NE¼ sec.35, T.3 N., R.15 W., Washington County, Hydrologic Unit 03140203, at bridge on State Highway 79 at Vernon, 0.2 mi (0.3 km) downstream from Pippin Mill Creek, and 25 mi (40 km) upstream from mouth.

DRAINAGE AREA.--386 mi<sup>2</sup> (1,000 km<sup>2</sup>).

PERIOD OF RECORD.--April 1950 to May 1979.

AVERAGE DISCHARGE.--28 years (water years 1951-78), 677 ft<sup>3</sup>/s (19.17 m<sup>3</sup>/s), 23.82 in/yr (605 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,900 ft<sup>3</sup>/s (309 m<sup>3</sup>/s) Apr. 4, 1960; minimum, 234 ft<sup>3</sup>/s (6.63 m<sup>3</sup>/s) July 8, 1955.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	10227	100.0	12	830.0	357	2123	20.8	24	3300.0	27	112	1.0
1	234.0	80	10227	100.0	13	930.0	192	1766	17.3	25	3700.0	25	85	.8
2	260.0	385	10147	99.2	14	1000.0	422	1574	15.4	26	4100.0	21	60	.5
3	290.0	1141	9762	95.5	15	1200.0	158	1152	11.3	27	4700.0	10	39	.3
4	330.0	1684	8621	84.3	16	1300.0	208	994	9.7	28	5200.0	9	29	.2
5	370.0	1441	6937	67.8	17	1500.0	184	786	7.7	29	5900.0	6	20	.1
6	420.0	808	5496	53.7	18	1700.0	125	602	5.9	30	6600.0	5	14	.1
7	470.0	665	4688	45.8	19	1900.0	91	477	4.7	31	7400.0	4	9	
8	520.0	666	4023	39.3	20	2100.0	77	386	3.8	32	8300.0	3	5	
9	590.0	452	3357	32.8	21	2300.0	87	309	3.0	33	9300.0	0	2	
10	660.0	396	2905	28.4	22	2600.0	62	222	2.2	34	10000.0	2	2	
11	740.0	386	2509	24.5	23	2900.0	48	160	1.6					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
331	343	339	313	288	294	310	291	287	286	286	280

CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

CHOCTAWHATCHEE RIVER BELOW PEA RIVER

02366500 CHOCTAWHATCHEE RIVER NEAR BRUCE, FL

LOCATION.--Lat 30°27'03", long 85°53'54", in NE¼ sec.36, T.1 N., R.17 W., Walton County, Hydrologic Unit 03140203, at bridge on State Highway 20, 4.0 mi (6.4 km) southeast of Bruce, 5.8 mi (9.3 km) downstream from Holmes Creek, and 21 mi (34 km) upstream from mouth.

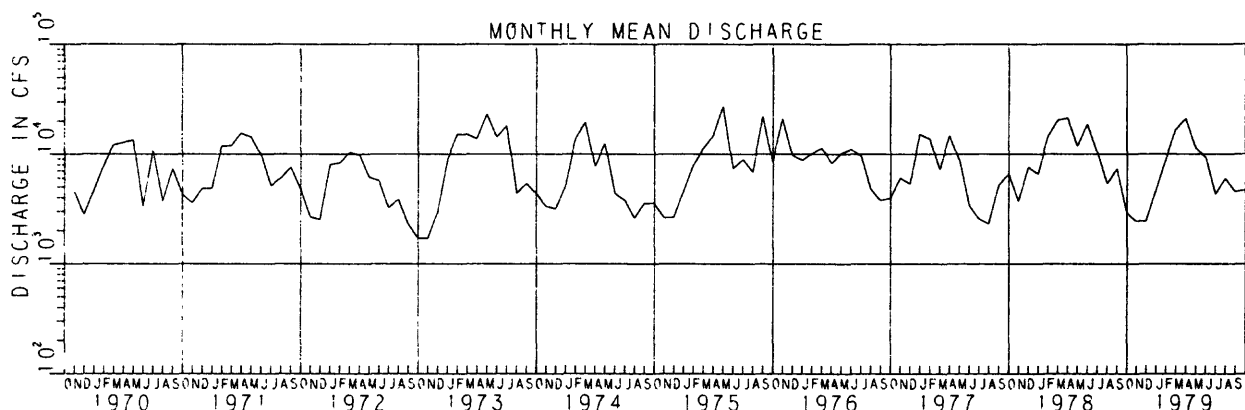
DRAINAGE AREA.--4,384 mi<sup>2</sup> (11,355 km<sup>2</sup>).

PERIOD OF RECORD.--October 1930 to September 1979.

AVERAGE DISCHARGE.--49 years, 7,212 ft<sup>3</sup>/s (204.2 m<sup>3</sup>/s), 22.34 in/yr (567 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,400 ft<sup>3</sup>/s (2,190 m<sup>3</sup>/s), Apr. 15, 1975; minimum, 1,290 ft<sup>3</sup>/s (36.5 m<sup>3</sup>/s) Oct. 27, 1968.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of March 1929 had a discharge of 220,000 ft<sup>3</sup>/s (6,230 m<sup>3</sup>/s).



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	17897	100.0	12	5000.0	1053	9186	51.3	24	22000.0	123	666	3.7
1	1300.0	57	17897	100.0	13	5600.0	1184	8133	45.4	25	24000.0	168	543	3.0
2	1500.0	152	17840	99.7	14	6400.0	1047	6949	38.8	26	28000.0	100	375	2.0
3	1700.0	285	17688	98.8	15	7200.0	1089	5902	33.0	27	31000.0	94	275	1.5
4	1900.0	518	17403	97.2	16	8100.0	883	4813	26.9	28	35000.0	63	181	1.0
5	2100.0	911	16885	94.3	17	9200.0	477	3930	22.0	29	40000.0	46	118	.6
6	2400.0	928	15974	89.3	18	10000.0	963	3453	19.3	30	45000.0	33	72	.4
7	2700.0	1216	15046	84.1	19	12000.0	339	2490	13.9	31	51000.0	21	39	.2
8	3100.0	1070	13830	77.3	20	13000.0	523	2151	12.0	32	58000.0	11	18	.1
9	3500.0	1044	12760	71.3	21	15000.0	352	1628	9.1	33	65000.0	6	7	
10	3900.0	1175	11716	65.5	22	17000.0	323	1276	7.1	34	74000.0	1	1	
11	4400.0	1355	10541	58.9	23	19000.0	287	953	5.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
3,103	3,518	4,072	3,431	2,329	1,948	2,044	2,066	1,776	1,822	1,840	2,244

CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

CHOCTAWHATCHEE BAY, INFLOW AND COASTAL AREA

02367000 ALAQUA CREEK NEAR DEFUNIAK SPRINGS, FL

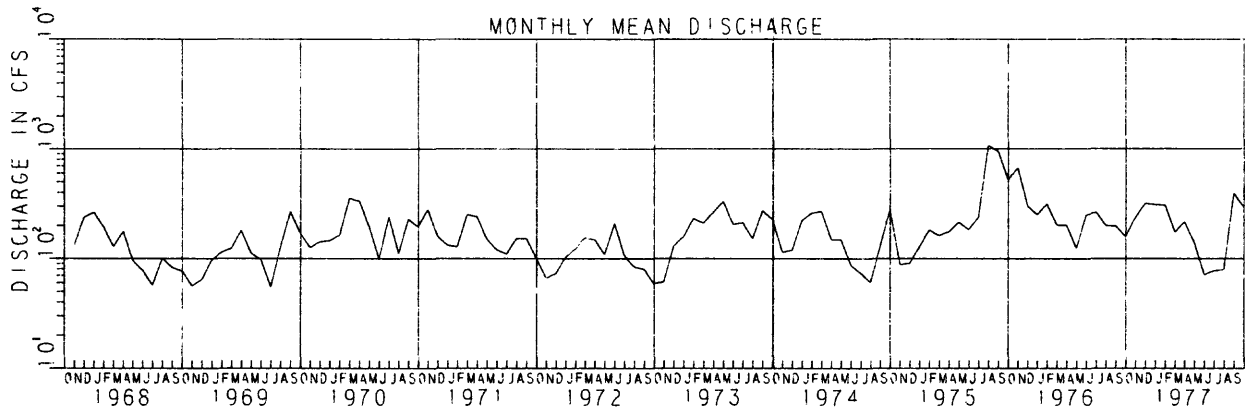
LOCATION.--Lat 30°37'00", long 86°09'50", in NE¼ sec.5, T.1 N., R.19 W., Walton County, Eglin Air Force Base, Hydrologic Unit 03140102, at Pine Allen Bridge on U.S. Forest Service road 200, 0.8 mi (1.3 km) upstream from Davis Branch, 8.0 mi (12.9 km) southwest of DeFuniak Springs, and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--65.6 mi<sup>2</sup> (169.9 km<sup>2</sup>).

PERIOD OF RECORD.--April 1951 to June 30, 1978.

AVERAGE DISCHARGE.--26 years (water years 1952- 1977), 170 ft<sup>3</sup>/s (4.814 m<sup>3</sup>/s), 35.12 in/yr (892 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft<sup>3</sup>/s (496 m<sup>3</sup>/s) July 31, 1975; minimum, 27 ft<sup>3</sup>/s (0.76 m<sup>3</sup>/s) June 8, 21, 22, 30, July 1, 1955.



DUPATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	9497	100.0	12	210.0	649	1985	20.9	24	1900.0	5	12	.1
1	27.0	25	9497	100.0	13	250.0	438	1336	14.1	25	2300.0	3	7	
2	33.0	45	9472	99.7	14	300.0	295	898	9.5	26	2800.0	0	4	
3	39.0	224	9427	99.3	15	360.0	230	603	6.3	27	3400.0	1	4	
4	47.0	380	9203	96.9	16	440.0	122	373	3.9	28	4100.0	0	3	
5	57.0	704	8823	92.9	17	530.0	79	251	2.6	29	4900.0	0	3	
6	68.0	849	8119	85.5	18	640.0	52	172	1.8	30	5900.0	0	3	
7	82.0	1079	7270	76.6	19	770.0	33	120	1.3	31	7200.0	1	3	
8	99.0	1206	6191	65.2	20	920.0	22	87	0.9	32	8600.0	0	2	
9	120.0	951	4985	52.5	21	1100.0	18	65	0.7	33	10000.0	1	2	
10	140.0	1079	4034	42.5	22	1300.0	26	47	0.5	34	13000.0	1	1	
11	170.0	970	2955	31.1	23	1600.0	9	21	0.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
66	83	77	70	52	44	46	53	52	45	51	57

CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

CHOCTAWHATCHEE BAY, INFLOW AND COASTAL AREA

02367310 JUNIPER CREEK AT STATE HIGHWAY 85, NEAR NICEVILLE, FL

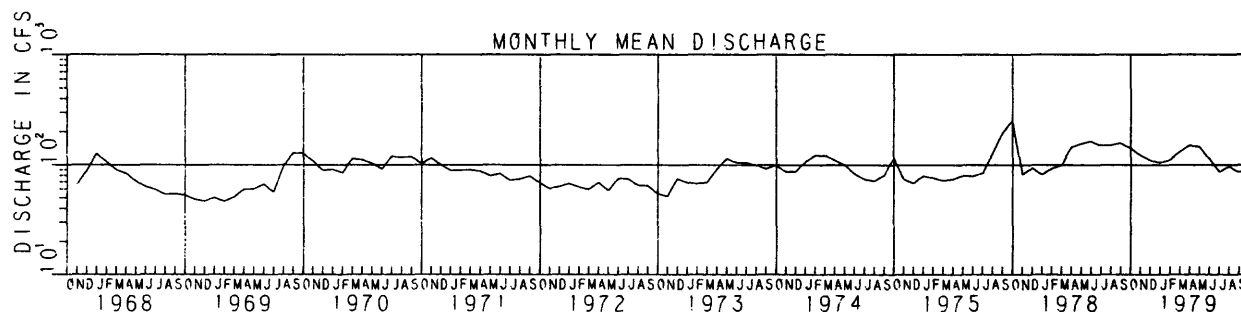
LOCATION.--Lat 30°33'26", long 86°31'11", in NW¼ sec.26, T.1 N., R.23 W., Okaloosa County, Hydrologic Unit 03140102, at bridge on State Highway 85, 0.8 mi (1.3 km) upstream from mouth at Turkey Creek, and 3.0 mi (4.8 km) northwest of Niceville.

DRAINAGE AREA.--27.6 mi<sup>2</sup> (71.4 km<sup>2</sup>).

PERIOD OF RECORD.--March 1966 to September 1975; May 1977 to September 1979.

AVERAGE DISCHARGE.--11 years, (water years 1967-75, 1978-79), 90.4 ft<sup>3</sup>/s (2.560 m<sup>3</sup>/s), 41.61 in/yr (1,060 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft<sup>3</sup>/s (31.4 m<sup>3</sup>/s) Sept. 23, 1975; from minimum, 39 ft<sup>3</sup>/s (1.10 m<sup>3</sup>/s) July 28, 1967.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	4017	100.0	12	110.0	184	793	19.7	24	320.0	0	20	.4
1	41.0	77	4017	100.0	13	120.0	141	609	15.2	25	340.0	5	20	.4
2	45.0	135	3940	98.1	14	130.0	110	468	11.7	26	380.0	4	15	.3
3	49.0	101	3805	94.7	15	140.0	221	358	8.9	27	410.0	4	11	.2
4	53.0	217	3704	92.2	16	160.0	29	137	3.4	28	450.0	0	7	.1
5	58.0	379	3487	86.8	17	170.0	31	108	2.7	29	490.0	3	7	.1
6	64.0	378	3108	77.4	18	190.0	17	77	1.9	30	540.0	1	4	
7	70.0	334	2730	68.0	19	200.0	14	60	1.5	31	590.0	0	3	
8	76.0	466	2396	59.6	20	220.0	5	46	1.1	32	640.0	0	3	
9	83.0	398	1930	48.0	21	240.0	7	41	1.0	33	700.0	2	3	
10	91.0	388	1532	38.1	22	260.0	7	34	0.8	34	770.0	1	1	
11	100.0	351	1144	28.5	23	290.0	7	27	0.7					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
51	52	46	57	52	53	50	51	50	47	52	52

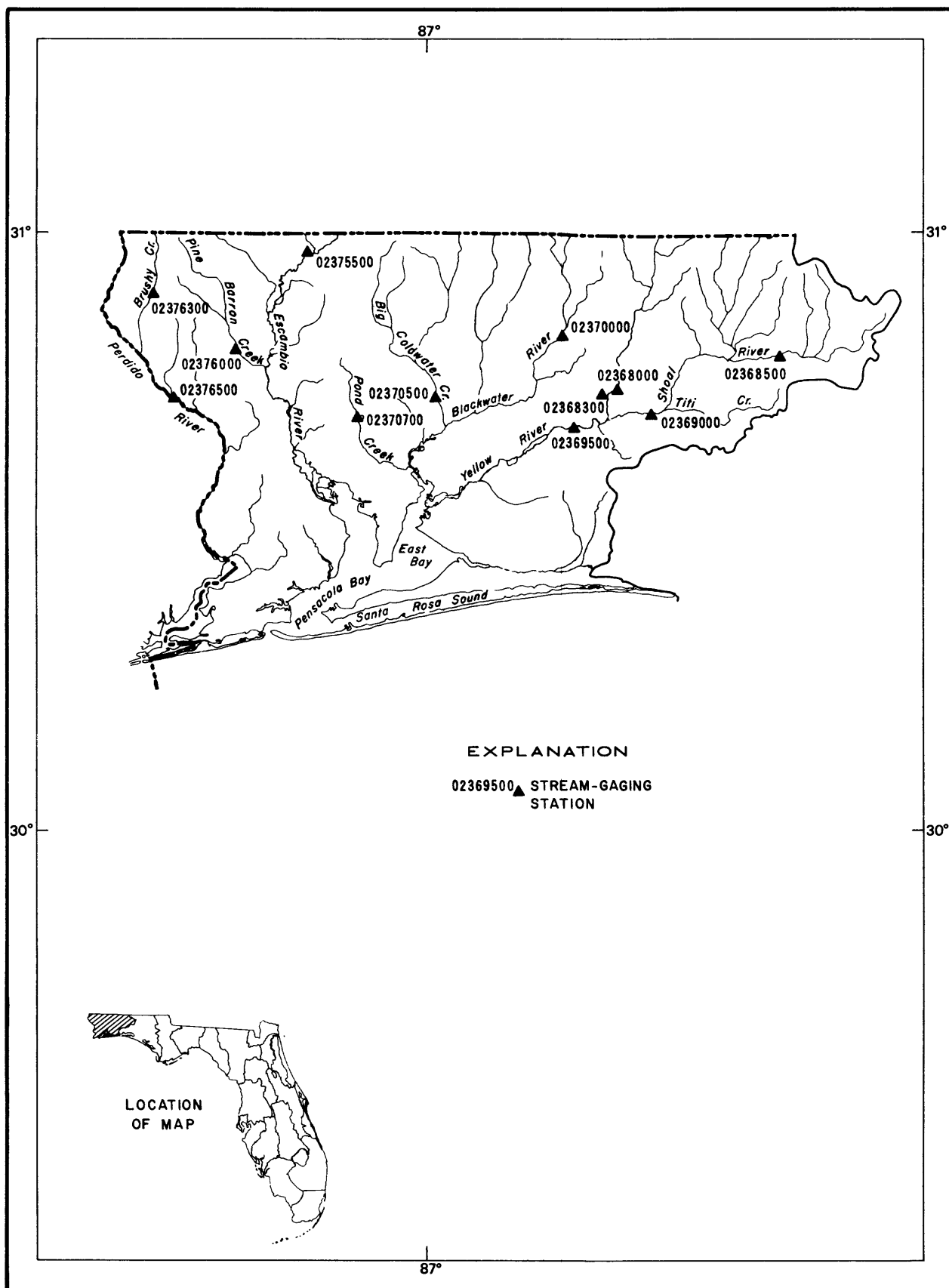


Figure 19.--Stations in the Yellow, Blackwater, Escambia and Perdido River basins.

CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

YELLOW RIVER BASIN

02368000 YELLOW RIVER AT MILLIGAN, FL

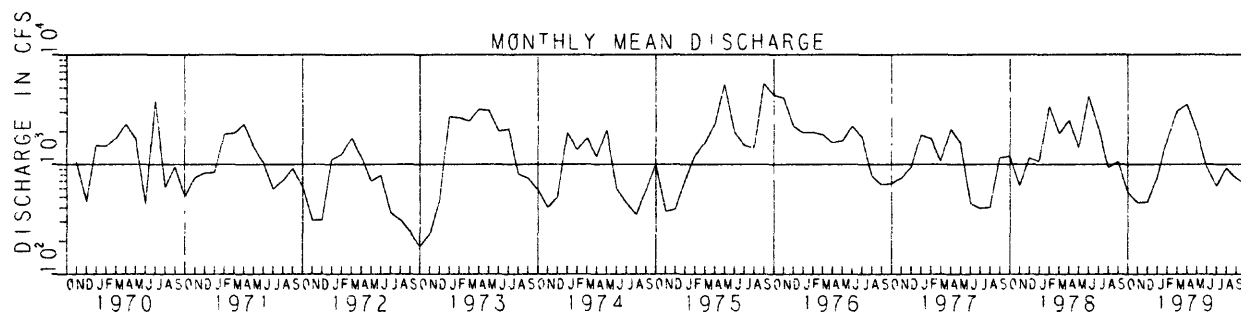
LOCATION.--Lat 30°45'10", long 86°37'45" in SE¼ sec.15, T.3 N., R.24 W., Okaloosa County, Hydrologic Unit 03140103, at bridge on U.S Highway 90, 0.5 mi (0.8 km) east of Milligan, 0.5 mi (0.8 km) upstream from Trammel Creek, 6.7 mi (10.8 km) upstream from Shoal River, and 40 mi (64 km) upstream from mouth.

DRAINAGE AREA.--624 mi<sup>2</sup> (1,616 km<sup>2</sup>).

PERIOD OF RECORD.--July 1938 to September 1979.

AVERAGE DISCHARGE.--41 years, 1,183 ft<sup>3</sup>/s (33.50 m<sup>3</sup>/s), 25.75 in/yr (654 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft<sup>3</sup>/s (1,090 m<sup>3</sup>/s) Apr. 12, 1975; minimum, 131 ft<sup>3</sup>/s (3.71 m<sup>3</sup>/s) June 23, 24, 1967.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14975	100.0	12	830.0	1052	7027	46.9	24	5900.0	71	207	1.3
1	136.0	70	14975	100.0	13	970.0	739	5975	39.9	25	7000.0	37	136	.9
2	160.0	100	14905	99.5	14	1100.0	1483	5236	35.0	26	8200.0	38	99	.6
3	190.0	124	14805	98.9	15	1400.0	758	3753	25.1	27	9700.0	13	61	.4
4	220.0	359	14681	98.0	16	1600.0	859	2995	20.0	28	11000.0	18	48	.3
5	260.0	685	14322	95.6	17	1900.0	488	2136	14.3	29	13000.0	14	30	.2
6	310.0	717	13637	91.1	18	2200.0	421	1648	11.0	30	16000.0	5	16	.1
7	360.0	1086	12920	86.3	19	2600.0	376	1227	8.2	31	19000.0	4	11	
8	430.0	1256	11834	79.0	20	3100.0	231	851	5.7	32	22000.0	4	7	
9	510.0	1259	10578	70.6	21	3600.0	197	620	4.1	33	26000.0	2	3	
10	600.0	1120	9319	62.2	22	4300.0	115	423	2.8	34	31000.0	1	1	
11	700.0	1172	8199	54.8	23	5000.0	101	308	2.1					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
456	586	586	455	304	238	267	260	215	208	239	340

CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

YELLOW RIVER BASIN

02368300 BAGGETT CREEK NEAR MILLIGAN, FL

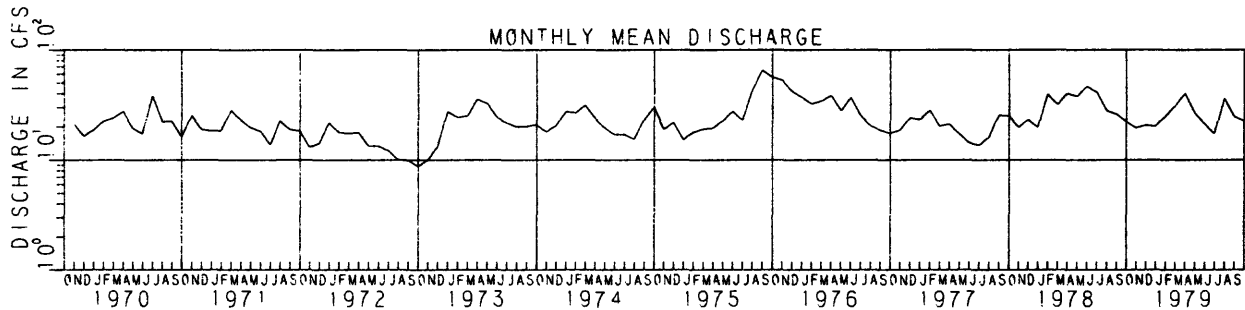
LOCATION.--Lat 30°43'40", long 86°39'35", in SW¼ sec.28, T.3 N., R.24 W., Okaloosa County, Hydrologic Unit 03140103, at culvert on U.S. Highway 90, 1.2 mi (1.9 km) upstream from mouth, and 2.0 mi (3.2 km) southwest of Milligan.

DRAINAGE AREA.--7.77 mi² (20.12 km²).

PERIOD OF RECORD.--October 1964 to September 1979.

AVERAGE DISCHARGE.--15 years, 22.3 ft³/s (0.632 m³/s), 38.97 in/yr (990 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 672 ft³/s (19.0 m³/s) Mar. 3, 1979; minimum 6.3 ft³/s (0.18 m³/s) July 31, Aug. 4, 10,17, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	5478	100.0	12	24.0	425	1491	27.2	24	91.0	9	54	.9
1	7.1	61	5478	100.0	13	27.0	268	1066	19.5	25	100.0	9	45	.8
2	8.0	108	5417	98.9	14	30.0	253	798	14.6	26	110.0	13	36	.6
3	9.0	136	5309	96.9	15	34.0	159	545	9.9	27	130.0	8	23	.4
4	10.0	127	5173	94.4	16	38.0	88	386	7.0	28	140.0	6	15	.2
5	11.0	193	5046	92.1	17	42.0	67	298	5.4	29	160.0	2	9	.1
6	12.0	473	4853	88.6	18	47.0	44	231	4.2	30	180.0	1	7	.1
7	14.0	588	4380	80.0	19	52.0	39	187	3.4	31	200.0	1	6	.1
8	16.0	308	3792	69.2	20	59.0	23	148	2.7	32	220.0	1	5	
9	17.0	624	3484	63.6	21	65.0	26	125	2.3	33	250.0	2	4	
10	19.0	897	2860	52.2	22	73.0	21	99	1.8	34	270.0	2	2	
11	22.0	472	1963	35.8	23	81.0	24	78	1.4					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
12	13	12	11	10	10	9.2	9.4	9.3	9.2	10	12

## CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

## YELLOW RIVER BASIN

02368500 SHOAL RIVER NEAR MOSSY HEAD, FL

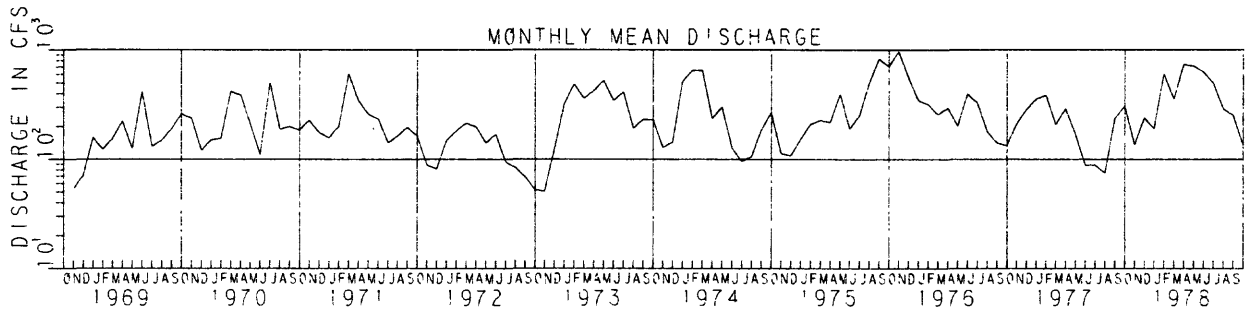
LOCATION.--Lat 30°47'45", long 86°18'25", in SW¼ sec.36, T.4 N., R.21 W., Walton County, Hydrologic Unit 03140103, at bridge on State Highway 285, about 200 ft (61 m) downstream from Machine Branch, 3.9 mi (6.3 km) north of Mossy Head, and 34 mi (55 km) upstream from mouth.

DRAINAGE AREA.--123 mi<sup>2</sup> (319 km<sup>2</sup>).

PERIOD OF RECORD.--March 1951 to September 1978.

AVERAGE DISCHARGE.--27 years, 243 ft<sup>3</sup>/s (6.882 m<sup>3</sup>/s), 26.83 in/yr (681 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft<sup>3</sup>/s (297 m<sup>3</sup>/s) Apr. 27, 1964; minimum, 29 ft<sup>3</sup>/s (1.10 m<sup>3</sup>/s) Oct. 22, 23, 1972.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	9862	100.0	12	220.0	622	3383	34.3	24	1400.0	22	92	.9
1	40.0	37	9862	100.0	13	250.0	651	2761	28.0	25	1600.0	8	70	.7
2	47.0	80	9825	99.6	14	290.0	536	2110	21.4	26	1800.0	23	62	.6
3	54.0	166	9745	98.8	15	340.0	402	1574	16.0	27	2200.0	10	39	.3
4	63.0	470	9579	97.1	16	400.0	263	1172	11.9	28	2500.0	8	29	.2
5	74.0	534	9109	92.4	17	460.0	238	909	9.2	29	2900.0	6	21	.2
6	86.0	635	8575	86.9	18	540.0	173	671	6.8	30	3400.0	3	15	.1
7	100.0	991	7940	80.5	19	630.0	132	498	5.0	31	4000.0	6	12	.1
8	120.0	931	6949	70.5	20	740.0	88	366	3.7	32	4600.0	2	6	
9	140.0	801	6018	61.0	21	860.0	74	278	2.8	33	5400.0		4	
10	160.0	1034	5217	52.9	22	1000.0	62	204	2.1	34	6300.0		2	
11	190.0	800	4183	42.4	23	1200.0	50	142	1.4					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
90	111	101	93	66	57	69	70	62	57	63	75

CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

YELLOW RIVER BASIN

02369000 SHOAL RIVER NEAR CRESTVIEW, FL

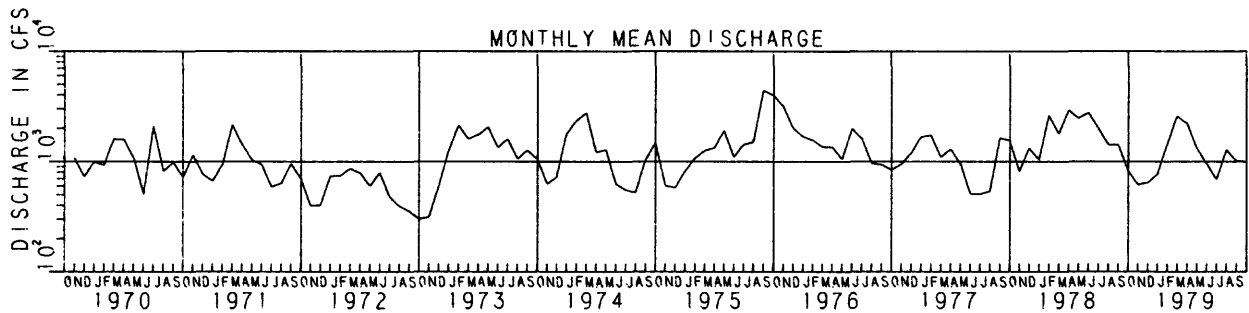
LOCATION.--Lat 30°41'50", long 86°34'15", in SW¼ sec.5, T.2 N., R.23 W., Okaloosa County, Hydrologic Unit 03140103, at bridge on State Highway 85, 3.5 mi (5.6 km) downstream from Titl Creek, 4.2 mi (6.8 km) south of Crestview, and 7 mi (11 km) upstream from mouth.

DRAINAGE AREA.--474 mi<sup>2</sup> (1,228 km<sup>2</sup>).

PERIOD OF RECORD.--July 1938 to September 1979.

AVERAGE DISCHARGE.--41 years, 1,105 ft<sup>3</sup>/s (31.30 m<sup>3</sup>/s), 31.66 in/yr (804 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,200 ft<sup>3</sup>/s (714 m<sup>3</sup>/s) Aug. 1, 1975; minimum, 240 ft<sup>3</sup>/s (6.80 m<sup>3</sup>/s) Oct. 17, 18, 1972.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14975	100.0	12	1000.0	1619	5776	38.6	24	5100.0	51	147	.9
1	240.0	29	14975	100.0	13	1200.0	1176	4157	27.8	25	5900.0	29	96	.6
2	270.0	176	14946	99.8	14	1400.0	702	2981	19.9	26	6700.0	13	67	.4
3	310.0	492	14770	98.6	15	1600.0	450	2279	15.2	27	7700.0	14	54	.3
4	360.0	671	14278	95.3	16	1800.0	333	1829	12.2	28	8800.0	12	40	.2
5	410.0	753	13607	90.9	17	2000.0	365	1496	10.0	29	10000.0	6	28	.1
6	470.0	904	12854	85.8	18	2300.0	290	1131	7.6	30	11000.0	8	22	.1
7	530.0	1308	11950	79.8	19	2600.0	259	841	5.6	31	13000.0	5	14	
8	610.0	1402	10642	71.1	20	3000.0	141	582	3.9	32	15000.0	4	9	
9	700.0	1331	9240	61.7	21	3400.0	129	441	2.9	33	17000.0	4	5	
10	800.0	1229	7909	52.8	22	3900.0	98	312	2.1	34	20000.0	1	1	
11	910.0	904	6680	44.6	23	4500.0	67	214	1.4					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
454	515	514	479	369	340	392	402	352	323	343	378

CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

BLACKWATER RIVER BASIN

02370000 BLACKWATER RIVER NEAR BAKER, FL

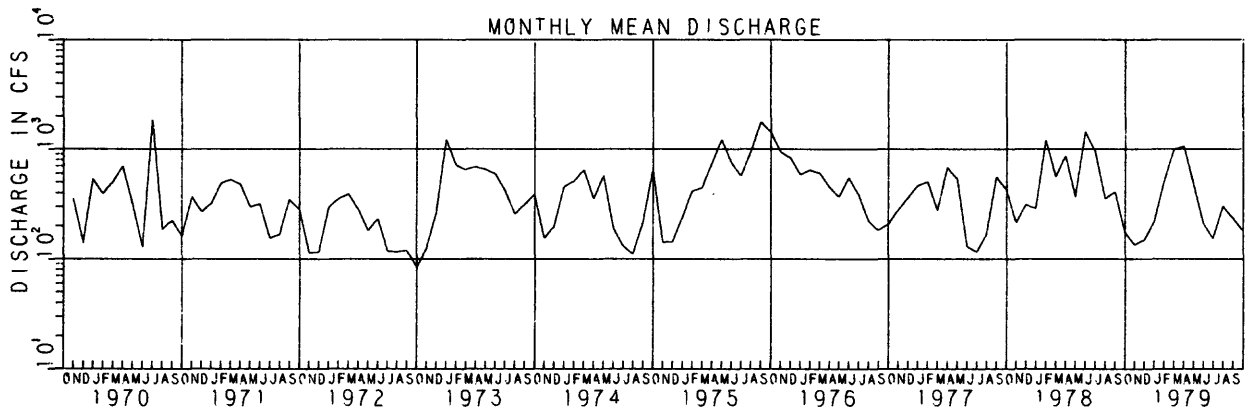
LOCATION.--Lat 30°50'00", long 86°44'05", in SW¼ sec.22, T.4 N., R.25 W., Okaloosa County, Blackwater River State Forest, Hydrologic Unit 03140104, at bridge on State Highway 4, 0.3 mi (0.5 km) downstream from Red Wash Branch, 3.8 mi (6.1 km) northwest of Baker, and 35 mi (56 km) upstream from mouth.

DRAINAGE AREA.--205 mi<sup>2</sup> (531 km<sup>2</sup>).

PERIOD OF RECORD.--March 1950 to September 1979.

AVERAGE DISCHARGE.--29 years, 343 ft<sup>3</sup>/s (9.714 m<sup>3</sup>/s), 22.72 in/yr (577 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,200 ft<sup>3</sup>/s (742 m<sup>3</sup>/s) June 4, 1970; minimum, 60 ft<sup>3</sup>/s (1.70 m<sup>3</sup>/s) Sept. 7,8, 1954.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	10592	100.0	12	380.0	574	2505	23.6	24	2800.0	28	84	.7
1	61.0	305	10592	100.0	13	450.0	459	1931	18.2	25	3300.0	10	56	.5
2	72.0	537	10287	97.1	14	530.0	345	1472	13.9	26	3900.0	9	46	.4
3	85.0	629	9750	92.1	15	630.0	254	1127	10.6	27	4600.0	15	37	.3
4	100.0	936	9121	86.1	16	740.0	212	873	8.2	28	5500.0	9	22	.2
5	120.0	926	8185	77.3	17	870.0	149	661	6.2	29	6400.0	4	13	.1
6	140.0	1094	7259	68.5	18	1000.0	136	512	4.8	30	7600.0	2	9	
7	170.0	871	6165	58.2	19	1200.0	87	376	3.5	31	9000.0	3	7	
8	200.0	711	5294	50.0	20	1400.0	87	289	2.7	32	11000.0	1	4	
9	230.0	703	4583	43.3	21	1700.0	57	202	1.9	33	13000.0	2	3	
10	270.0	699	3880	36.6	22	2000.0	37	145	1.4	34	15000.0	1	1	
11	320.0	676	3181	30.0	23	2400.0	24	108	1.0					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
113	141	133	106	83	69	80	80	70	70	75	90

CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

BLACKWATER RIVER BASIN

02370500 BIG COLDWATER CREEK NEAR MILTON, FL

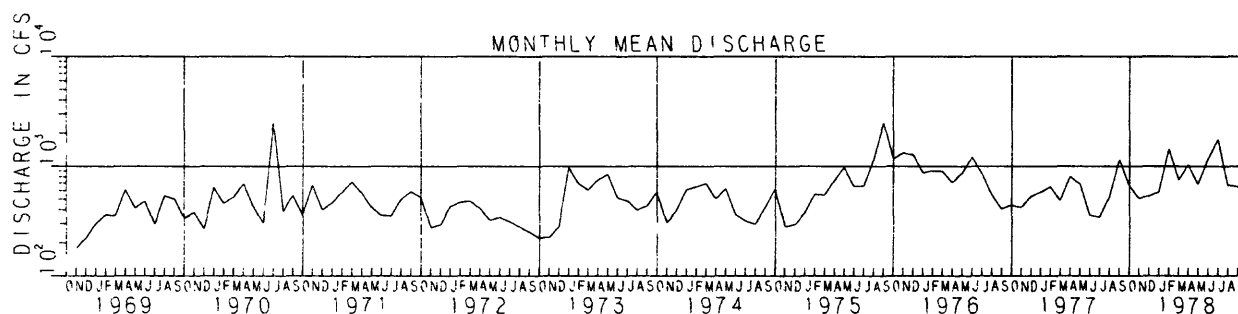
LOCATION.--Lat 30°42'30", long 86°58'20", in SW¼ sec.5, T.2 N., R.27 W., Santa Rosa County, Hydrologic Unit 03140104, at bridge on State Highway 191, 3 mi (5 km) upstream from mouth, and 6.5 mi (10.5 km) northeast of Milton.

DRAINAGE AREA.--237 mi<sup>2</sup> (614 km<sup>2</sup>).

PERIOD OF RECORD.--October 1938 to June 1979.

AVERAGE DISCHARGE.--40 years (water years 1939-78), 541 ft<sup>3</sup>/s (15.32 m<sup>3</sup>/s), 31.00 in/yr (787 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft<sup>3</sup>/s (906 m<sup>3</sup>/s) June 4, 1970; minimum, 156 ft<sup>3</sup>/s (4.42 m<sup>3</sup>/s) June 10, 11, 1956.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	14245	100.0	12	870.0	369	1418	10.0	24	5600.0	14	32	.2
1	158.0	63	14245	100.0	13	1000.0	306	1049	7.4	25	6600.0	3	18	.1
2	180.0	465	14182	99.6	14	1200.0	213	743	5.2	26	7700.0	7	15	.1
3	220.0	649	13717	96.3	15	1400.0	127	530	3.7	27	8900.0	1	8	
4	250.0	1277	13068	91.7	16	1600.0	123	403	2.8	28	10000.0	1	7	
5	290.0	2133	11791	82.8	17	1900.0	78	280	2.0	29	12000.0	2	6	
6	340.0	2351	9658	67.8	18	2200.0	68	202	1.4	30	14000.0	2	4	
7	400.0	1908	7307	51.3	19	2600.0	41	134	0.9	31	17000.0		2	
8	470.0	1581	5399	37.9	20	3000.0	28	93	0.7	32	19000.0		2	
9	550.0	1104	3818	26.8	21	3500.0	14	65	0.5	33	23000.0	1	2	
10	640.0	781	2714	19.1	22	4100.0	12	51	0.4	34	27000.0	1	1	
11	750.0	515	1933	13.6	23	4800.0	7	39	0.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
271	299	296	274	234	223	239	232	222	216	222	243

## CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

## BLACKWATER RIVER BASIN

02370700 POND CREEK NEAR MILTON, FL

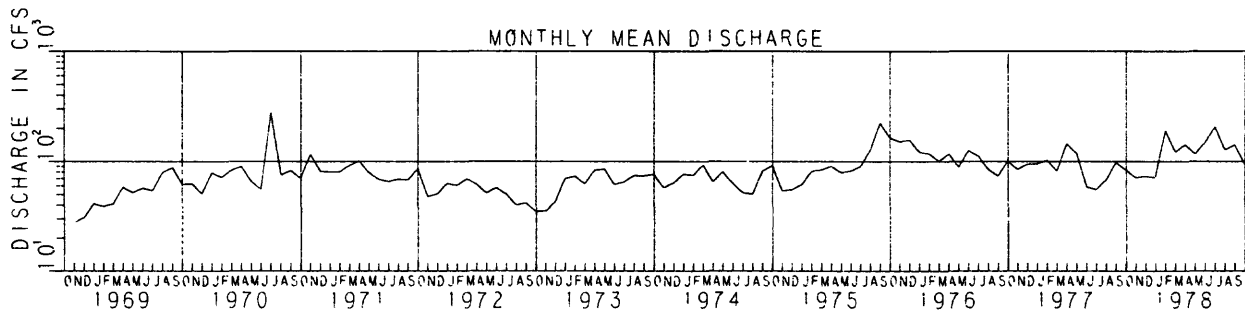
LOCATION.--Lat 30°40'50", long 87°07'55", in SE¼ sec.15, T.29 N., R.29 W., Santa Rosa County, Hydrologic Unit 03140104, at bridge on State Highway 191, 0.6 mi (1.0 km) downstream from Reader Creek, 6.4 mi (10.3 km) north-west of Milton, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--58.7 mi<sup>2</sup> (152.0 km<sup>2</sup>).

PERIOD OF RECORD.--January 1958 to September 1978.

AVERAGE DISCHARGE.--20 years 79.6 ft<sup>3</sup>/s (2.254 m<sup>3</sup>/s), 18.41 in/yr (468 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,580 ft<sup>3</sup>/s (130 m<sup>3</sup>/s), June 3, 1970; minimum, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) Sept. 9-16, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	7305	100.0	12	120.0	129	722	9.9	24	600.0	4	18	.2
1	26.0	81	7305	100.0	13	130.0	201	593	8.1	25	690.0	3	14	.1
2	30.0	103	7224	98.9	14	150.0	142	392	5.4	26	790.0	1	11	.1
3	34.0	252	7121	97.5	15	180.0	68	250	3.4	27	900.0	1	10	.1
4	39.0	344	6869	94.0	16	200.0	53	182	2.5	28	1000.0	4	9	.1
5	45.0	753	6525	89.3	17	230.0	41	129	1.8	29	1200.0	1	5	
6	51.0	980	5772	79.0	18	260.0	25	88	1.2	30	1400.0		4	
7	59.0	1232	4792	65.6	19	300.0	16	63	0.9	31	1600.0		4	
8	68.0	1015	3560	48.7	20	350.0	11	47	0.6	32	1800.0	1	4	
9	77.0	847	2545	34.8	21	400.0	12	36	0.5	33	2000.0	1	3	
10	89.0	475	1698	23.2	22	460.0	6	24	0.3	34	2300.0	2	2	
11	100.0	501	1223	16.7	23	520.0	0	18	0.2					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
46	48	48	44	40	39	38	39	38	36	37	43

## CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

## ESCAMBIA RIVER BASIN

02375500 ESCAMBIA RIVER NEAR CENTURY, FL

LOCATION.--Lat 30°57'54", long 87°14'03", in NW¼ sec.10, T.5 N., R.30 W., Santa Rosa County, Hydrologic Unit 03140305, at bridge on State Highway 4, 1.2 mi (1.9 km) downstream from Escambia Creek, 1.7 mi (2.7 km) east of Century, and 52 mi (84 km) upstream from mouth.

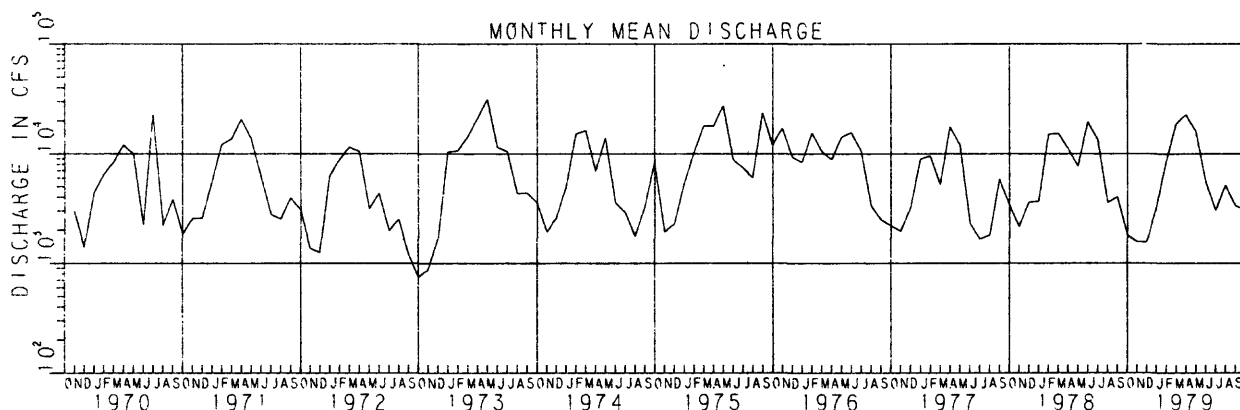
DRAINAGE AREA.--3,817 mi<sup>2</sup> (9,886 km<sup>2</sup>).

PERIOD OF RECORD.--October 1934 to September 1979.

REMARKS.--Stage fluctuation during periods of low flow are attributed to regulation by power plants located at Point-A Dam, located 85.4 mi (137 km) and Gantt Dam, located 90.1 mi (145 km) above the gaging station.

AVERAGE DISCHARGE.--45 years, 6,334 ft<sup>3</sup>/s, (179.4 m<sup>3</sup>/s), 22.54 in/yr, (573 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,300 ft<sup>3</sup>/s (2,610 m<sup>3</sup>/s) Apr. 12, 1975; minimum, 578 ft<sup>3</sup>/s (16.4 m<sup>3</sup>/s) Oct. 23, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	16436	100.0	12	3000.0	803	9678	58.9	24	17000.0	318	1224	7.4
1	582.0	92	16436	100.0	13	3400.0	1060	8875	54.0	25	20000.0	230	906	5.5
2	670.0	98	16344	99.4	14	4000.0	945	7815	47.5	26	23000.0	186	676	4.1
3	780.0	131	16246	98.8	15	4600.0	946	6870	41.8	27	27000.0	148	490	2.9
4	910.0	477	16115	98.0	16	5300.0	980	5924	36.0	28	31000.0	129	342	2.0
5	1100.0	275	15638	95.1	17	6200.0	797	4944	30.1	29	36000.0	82	213	1.2
6	1200.0	749	15363	93.5	18	7200.0	635	4147	25.2	30	42000.0	54	131	.7
7	1400.0	793	14614	88.9	19	8300.0	580	3512	21.4	31	49000.0	38	77	.4
8	1600.0	1148	13821	84.1	20	9600.0	493	2932	17.8	32	57000.0	20	39	.2
9	1900.0	1001	12673	77.1	21	11000.0	505	2439	14.8	33	66000.0	17	19	.1
10	2200.0	863	11672	71.0	22	13000.0	410	1934	11.8	34	76000.0	2	2	
11	2500.0	1131	10809	65.8	23	15000.0	300	1524	9.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2,200	2,870	3,130	2,340	1,480	1,130	1,220	1,120	856	854	966	1,390

## CHOTCAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

## ESCAMBIA RIVER

02376000 PINE BARREN CREEK NEAR BARTH, FL

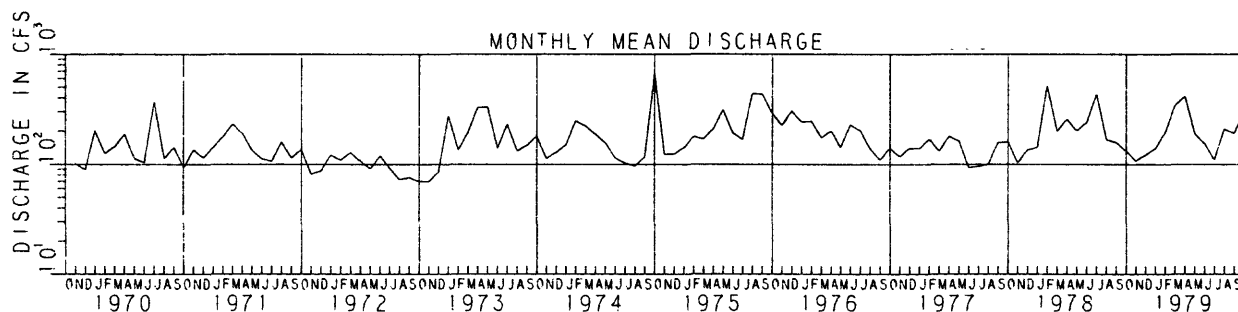
LOCATION.--Lat 30°47'55", long 87°22'05", in SW¼ sec.5, T.3 N., R.31 W., Escambia County, Hydrologic Unit 03140305, at Wiggins Bridge on private road, 0.3 mi (0.5 km) upstream from Blue Water Creek, 4.0 mi (6.4 km) north- west of Barth, and 7.3 mi (11.7 km) upstream from mouth.

DRAINAGE AREA.--75.3 mi<sup>2</sup> (195.0 km<sup>2</sup>).

PERIOD OF RECORD.--October 1952 to September 1979.

AVERAGE DISCHARGE.--27 years, 153 ft<sup>3</sup>/s (4.33 m<sup>3</sup>/s), 27.59 in/yr (701 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,800 ft<sup>3</sup>/s (702 m<sup>3</sup>/s), Apr. 14, 1955; minimum, 51 ft<sup>3</sup>/s (1.44 m<sup>3</sup>/s). June 8, 9, 1956.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	9861	100.0	12	290.0	144	634	6.4	24	2000.0	2	20	.2
1	52.0	99	9861	100.0	13	340.0	115	490	5.0	25	2300.0	5	18	.1
2	61.0	571	9762	99.0	14	400.0	103	375	3.8	26	2700.0	1	13	.1
3	71.0	999	9191	93.2	15	470.0	69	272	2.8	27	3100.0	4	12	.1
4	83.0	1582	8192	83.1	16	550.0	64	203	2.1	28	3700.0	3	8	
5	98.0	1447	6610	67.0	17	650.0	38	139	1.4	29	4300.0		5	
6	110.0	1732	5163	52.4	18	750.0	23	101	1.0	30	5000.0	2	5	
7	130.0	1360	3431	34.8	19	890.0	18	78	0.8	31	5900.0	1	3	
8	160.0	478	2071	21.0	20	1000.0	13	60	0.6	32	6900.0		2	
9	180.0	434	1593	16.2	21	1200.0	12	47	0.5	33	8100.0	1	2	
10	210.0	323	1159	11.8	22	1400.0	8	35	0.4	34	9500.0	1	1	
11	250.0	202	836	8.5	23	1700.0	7	27	0.3					

MINIMUM 7-DAY-AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
81	84	84	79	72	66	69	68	65	66	69	76

## CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

## PERDIDO RIVER BASIN

02376300 BRUSHY CREEK NEAR WALNUT HILL, FL

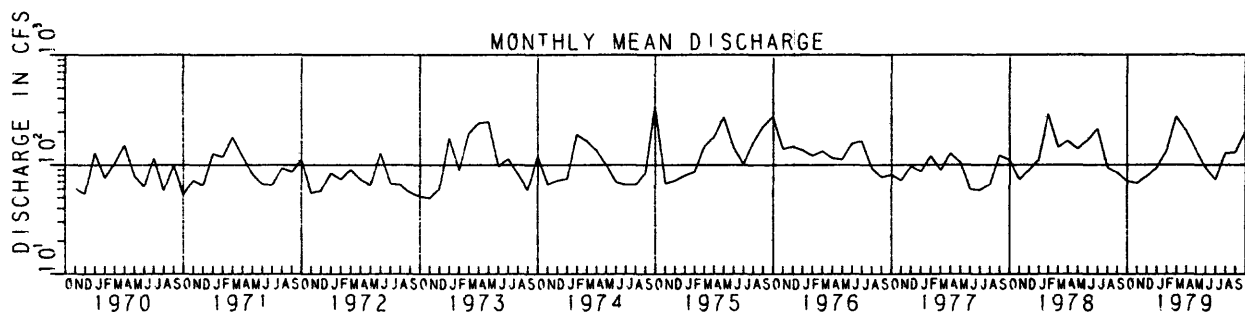
LOCATION.--Lat 30°53'21", long 87°32'24", in SE¼ sec.4, T.4 N., R.33 W., Escambia County, Hydrologic Unit 03140106, at bridge on county road, 1,000 ft (305 m) downstream from Rocky Creek, 2.0 mi (3.2 km) west of Walnut Hill, and 7.9 mi (12.7 km) upstream from mouth.

DRAINAGE AREA.--49 mi<sup>2</sup> (127 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--January 1958 to September 1979.

AVERAGE DISCHARGE.--21 years, 106 ft<sup>3</sup>/s (3.002 m<sup>3</sup>/s), 29.32 in/yr (745 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,680 ft<sup>3</sup>/s (274 m<sup>3</sup>/s) Mar. 31, 1962; minimum, 36 ft<sup>3</sup>/s (1.02 m<sup>3</sup>/s) Sept. 9-16, 1968.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	7670	100.0	12	150.0	207	872	11.4	24	760.0	22	67	.8
1	36.0	73	7670	100.0	13	180.0	85	665	8.7	25	870.0	9	45	.5
2	41.0	140	7597	99.0	14	200.0	101	580	7.6	26	990.0	9	36	.4
3	47.0	656	7457	97.2	15	230.0	86	479	6.2	27	1100.0	8	27	.3
4	54.0	1155	6801	88.7	16	260.0	64	393	5.1	28	1300.0	8	19	.2
5	61.0	1506	5646	73.6	17	300.0	64	329	4.3	29	1500.0	5	11	.1
6	70.0	1080	4140	54.0	18	340.0	42	265	3.5	30	1700.0	2	6	
7	80.0	769	3060	39.9	19	390.0	51	223	2.9	31	1900.0	1	4	
8	91.0	447	2291	29.9	20	450.0	43	172	2.2	32	2200.0	1	3	
9	100.0	605	1844	24.0	21	510.0	28	129	1.7	33	2500.0	1	2	
10	120.0	280	1239	16.2	22	580.0	20	101	1.3	34	2900.0	1	1	
11	140.0	87	959	12.5	23	670.0	14	81	1.1					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,

(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
58	59	62	54	48	46	49	49	45	46	49	53

## CHOCTAWHATCHEE, YELLOW, AND ESCAMBIA RIVERS

## PERDIDO RIVER BASIN

02376500 PERDIDO RIVER AT BARRINEAU PARK, FL

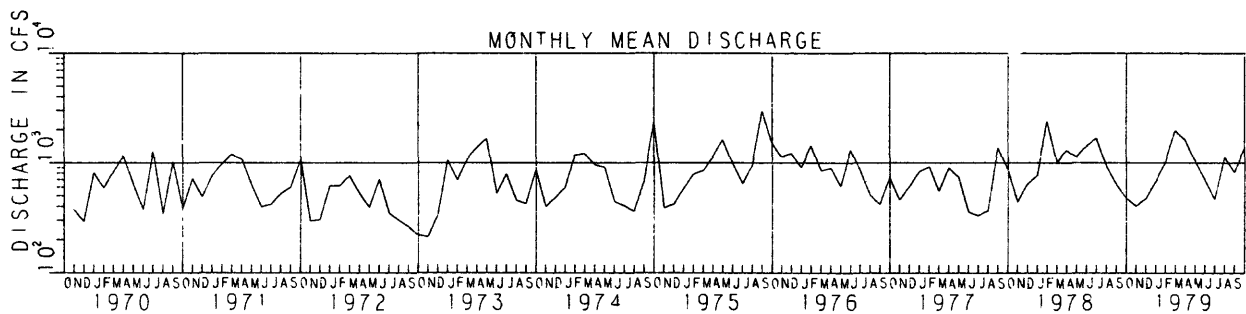
LOCATION.--Lat 30°41'25", long 87°26'25", in NW¼ sec.23, T.4 S., R.6 E., Baldwin County, Ala., Hydrologic Unit 0314006 at county highway bridge, 1,000 ft (305 m) downstream from Alligator Creek, 0.5 mi (0.8 km) southwest of Barrineau Park, and 27 mi (43 km) upstream from mouth.

DRAINAGE AREA.--394 mi<sup>2</sup> (1,020 km<sup>2</sup>).

PERIOD OF RECORD.--June 1941 to September 1979.

AVERAGE DISCHARGE.--38 years, 759 ft<sup>3</sup>/s (21.49 m<sup>3</sup>/s), 26.16 in/yr (664 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft<sup>3</sup>/s (1,100 m<sup>3</sup>/s) Apr. 15, 1955; minimum, 188 ft<sup>3</sup>/s (5.32 m<sup>3</sup>/s) Oct. 12-18, 1973.



DURATION TABLE OF DAILY VALUES FOR YEAR ENDING SEPTEMBER 30

CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT	CLASS	VALUE	TOTAL	ACCUM	PERCT
0	0.0	0	13879	100.0	12	850.0	658	3176	22.9	24	4500.0	35	123	.8
1	188.0	153	13879	100.0	13	990.0	385	2518	18.1	25	5200.0	32	88	.6
2	220.0	281	13726	98.9	14	1100.0	534	2133	15.4	26	6000.0	17	56	.4
3	250.0	748	13445	96.9	15	1300.0	402	1599	11.5	27	6800.0	11	39	.2
4	280.0	1406	12697	91.5	16	1500.0	223	1197	8.6	28	7900.0	11	28	.2
5	330.0	1471	11291	81.4	17	1700.0	252	974	7.0	29	9000.0	2	17	.1
6	380.0	1225	9820	70.8	18	2000.0	174	722	5.2	30	10000.0	6	15	.1
7	430.0	1344	8595	61.9	19	2300.0	108	548	3.9	31	12000.0	4	9	
8	490.0	1316	7251	52.2	20	2600.0	111	440	3.2	32	14000.0	1	5	
9	570.0	980	5935	42.8	21	3000.0	80	329	2.4	33	16000.0	2	4	
10	650.0	1005	4955	35.7	22	3400.0	70	249	1.8	34	18000.0	2	2	
11	750.0	774	3950	28.5	23	3900.0	56	179	1.3					

MINIMUM 7-DAY AVERAGE FLOW, BY MONTH, FOR A 10-YEAR RECURRENCE INTERVAL,  
(7-DAY, 10-YEAR LOW FLOW) IN CUBIC FEET PER SECOND

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
339	364	345	304	268	247	260	257	241	233	253	301

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# INDEX OF STATIONS

ALAFIA RIVER AT LITHIA FLA. . . . .	.171
ALAUHA CREEK NR DE FUNIAK SPRINGS FLA . . . . .	.246
ALLIGATOR CREEK AT SAFETY HARBOR FLA. . . . .	.186
ANCLOTE RIVER NR ELFERS FLA . . . . .	.189
APALACHICOLA RIVER AT CHATTAHOOCHEE FLA . . . . .	.237
APALACHICOLA RIVER NR BLOUNTSTOWN FLA . . . . .	.238
APOPKA BEAUCLAIR CANAL NR ASTATULA FLA. . . . .	35
ARBUCKLE CREEK NR DE SOTO CITY FLA. . . . .	85
AUCILLA RIVER AT LAMONT FLA . . . . .	.226
BAGGETT CREEK NR MILLIGAN FLA . . . . .	.250
BARRON RIVER CANAL NR EVERGLADES FLA. . . . .	.141
BIG COLDWATER CREEK NR MILTON FLA . . . . .	.254
BIG CREEK NR CLERMONT FLA . . . . .	32
BISCAYNE CANAL AT S-28 NR MIAMI FLA . . . . .	.121
BLACKWATER CREEK NR KNIGHTS FLA . . . . .	.174
BLACKWATER RIVER NR BAKER FLA . . . . .	.253
BOGGY CREEK NR TAFT FLA . . . . .	70
BONNET CREEK NR VINELAND FLA. . . . .	74
BROOKER CREEK NR TARPON SPRINGS FLA . . . . .	.185
BRUSHY CREEK NR WALNUT HILL FLA . . . . .	.258
CALOOSAHATCHEE CANAL AT MOORE HAVEN FLA . . . . .	.146
CALOOSAHATCHEE RIVER AT S-79 NR OLGA FLA. . . . .	.147
CANAL 41A AT S-68 AT LAKE ISTOKPOGA NR LAKE PLACID FLA. . . . .	90
CANAL 41A AT S-84 NR OKEECHOBEE FLA . . . . .	91
CANAL 111 AT S-18C NR FLORIDA CITY FLA. . . . .	.139
CARTER CREEK NR SEBRING FLA . . . . .	84
CATFISH CREEK NR LAKE WALES FLA . . . . .	80
CHARLIE CREEK NR GARDNER FLA. . . . .	.157
CHIPOLA RIVER NR ALTHA FLA. . . . .	.239
CHOCTAWHATCHEE RIVER AT CARYVILLE FLA . . . . .	.243
CHOCTAWHATCHEE RIVER NR BRUCE FLA . . . . .	.245
COCOHATCHEE RIVER CANAL NR NAPLES PARK FLA. . . . .	.144
CRANE CREEK AT MELBOURNE FLA. . . . .	57
CRYSTAL RIVER NR CRYSTAL RIVER FLA. . . . .	.192
CYPRESS CREEK AT VINELAND FLA . . . . .	73
CYPRESS CREEK CANAL AT S-37A, NR POMPAN0 BEACH FLA. . . . .	.109
CYPRESS CREEK NR SAN ANTONIO FLA. . . . .	.178
CYPRESS CREEK NR SULPHUR SPRINGS FLA. . . . .	.179
DAVENPORT CREEK NR LOUGHMAN FLA . . . . .	78
DIVERSIONS TO CONS AREA 1 AT S-5A NR LOXAHATCHEE FLA. . . . .	.101
DRAINAGE DITCH AT BEARSS AVENUE NR SULPHUR SPRINGS FLA. . . . .	.181
ECONFINA CREEK NR BENNETT FLA . . . . .	.241
ECONFINA CREEK NR FOUNTAIN FLA. . . . .	.241
ECONFINA RIVER NR PERRY FLA . . . . .	.225
ECONLOCKHATCHEE RIVER NR CHULUOTA FLA . . . . .	28
ESCAMBIA RIVER NR CENTURY FLA . . . . .	.256

# INDEX OF STATIONS

FELLSMERE CANAL NR FELLSMERE FLA. . . . .	59
FENHOLLOWAY RIVER AT FOLEY FLA. . . . .	.224
FENHOLLOWAY RIVER NR FOLEY FLA. . . . .	.223
FISHEATING CREEK AT PALMDALE FLA. . . . .	65
FISHEATING CREEK NR VENUS FLA . . . . .	64
FLINT CREEK NR THONOTOSASSA FLA . . . . .	.177
FOX BRANCH NR SOCRUM FLA. . . . .	.174
GOLDEN GATE CANAL NR NAPLES FLA . . . . .	.143
HAINES CREEK AT LISBON FLA. . . . .	36
HARNEY POND CANAL AT S-71 NR LAKEPORT FLA . . . . .	66
HENDERSON CREEK CANAL NR NAPLES FLA . . . . .	.142
HILLSBORO CANAL AT S-39 NR DEERFIELD BEACH FLA . . . . .	.107
HILLSBORO CANAL AT S-6 NR SHAWANO FLA . . . . .	.106
HILLSBORO CANAL BELOW HGS-4 NR SOUTH BAY FLA. . . . .	.105
HILLSBORO CANAL NR DEERFIELD BEACH FLA. . . . .	.108
HILLSBOROUGH RIVER NR TAMPA FLA . . . . .	.180
HILLSBOROUGH RIVER NR ZEPHYRHILLS FLA . . . . .	.175
HOLMES CREEK AT VERNON FLA. . . . .	.244
HORSE CREEK NR ARCADIA FLA. . . . .	.160
IMPERIAL RIVER NR BONITA SPRINGS FLA. . . . .	.145
INDIAN PRAIRIE CANAL AT S-72 NR OKEECHOBEE FLA . . . . .	67
INDIAN PRAIRIE CANAL NR OKEECHOBEE FLA. . . . .	68
ISTOKPOGA CANAL NR CORNWELL FLA . . . . .	88
JANE GREEN CREEK NR DEER PARK FLA . . . . .	22
JOSEPHINE CREEK NR DE SOTO CITY FLA . . . . .	87
JOSHUA CREEK AT NOCATEE FLA . . . . .	.159
JUMPER CREEK CANAL NR BUSHNELL FLA. . . . .	.200
JUMPING GULLY NR LOYCE FLA. . . . .	.190
JUNIPER CREEK AT STATE HIGHWAY 85 NR NICEVILLE FLA. . . . .	.247
KISSIMMEE RIVER AT S-65 NR LAKE WALES FLA . . . . .	82
KISSIMMEE RIVER AT S-65E NR OKEECHOBEE FLA. . . . .	89
KISSIMMEE RIVER NR LAKE WALES FLA . . . . .	81
LAKE LULU OUTLET AT ELOISE FLA. . . . .	.152
LEVEE 3 CANAL NR CLEWISTON FLA. . . . .	.133
LEVEE 8 CANAL AT WEST PALM BEACH CANAL NR LOXAHATCHEE FLA . . . . .	.102
LITTLE ALAFIA RIVER NR HOPEWELL FLA . . . . .	.170
LITTLE CHARLEY BOWLEGS CREEK NR SEBRING FLA . . . . .	.156
LITTLE ECONLOCKHATCHEE RIVER NR UNION PARK FLA. . . . .	27
LITTLE HAW CREEK NR SEVILLE FLA . . . . .	47
LITTLE MANATEE RIVER NR FORT LONESOME FLA . . . . .	.166
LITTLE MANATEE RIVER NR WIMAUMA FLA . . . . .	.167
LITTLE RIVER CANAL AT S 27 AT MIAMI FLA . . . . .	.122
LITTLE RIVER NR QUINCY FLA. . . . .	.230
LITTLE WITHLACOOCHEE RIVER AT REDDELL FLA . . . . .	.198
LITTLE WITHLACOOCHEE RIVER NR TARRYTOWN FLA . . . . .	.197

# INDEX OF STATIONS

MAIN CANAL AT VERO BEACH FLA. . . . .	61
MANATEE RIVER NR BRADENTON FLA. . . . .	.165
MANATEE RIVER NR MYAKKA HEAD FLA. . . . .	.164
MIAMI CANAL AT HGS-3 AND S-3 AT LAKE HARBOR FLA . . . . .	.123
MIAMI CANAL AT NW 36TH ST MIAMI FLA . . . . .	.128
MIAMI CANAL AT PALMETTO BY-PASS NR HIALEAH FLA. . . . .	.126
MIAMI CANAL AT S-8 NR LAKE HARBOR FLA . . . . .	.124
MIAMI CANAL AT WATER PLANT HIALEAH FLA. . . . .	.127
MIAMI CANAL EAST OF LEVEE 30 NR MIAMI FLA . . . . .	.125
MIDDLE PRONG ST MARYS RIVER AT TAYLOR FLA . . . . .	16
MIDDLE RIVER CANAL AT S-36 NR FT LAUDERDALE FLA . . . . .	.110
MONREVE RANCH DRAINAGE CANAL NR STUART FLA. . . . .	97
MOULTRIE CREEK AT ST HWY 207 NR ST AUGUSTINE FLA. . . . .	53
MOULTRIE CREEK NR ST AUGUSTINE FLA. . . . .	54
MYAKKA RIVER NR SARASOTA FLA. . . . .	.162
MYRTLE-MARY JANE CANAL NR NARCOOSSEE FLA. . . . .	69
NEW RIVER NR LAKE BUTLER FLA. . . . .	.215
NEW RIVER N ZEPHYRIHILLS, FL. . . . .	.176
NEW RIVER NR LAKE BUTLER FLA. . . . .	.235
NORTH CANAL NR VERO BEACH FLA . . . . .	60
NORTH FORK BLACK CREEK NR MIDDLEBURG FLA. . . . .	50
NORTH NEW RIVER CANAL AT S-2 AND HGS-4 NR SOUTH BAY FLA . . . .	.112
NORTH NEW RIVER CANAL AT S-7, AT TERRYTOWN FLA. . . . .	.114
NORTH NEW RIVER CANAL NR FT LAUDERDALE FLA. . . . .	.115
NORTH NEW RIVER CANAL BL HGS-4 NR SOUTH BAY FLA . . . . .	.113
NORTH PRONG ALAFIA RIVER AT KEYSVILLE FLA . . . . .	.168
NORTH PRONG ST MARYS RIVER AT MONIAC GA . . . . .	15
OCHLOCKONEE RIVER NR BLOXHAM FLA. . . . .	.233
OCHLOCKONEE RIVER NR HAVANA FLA . . . . .	.230
OKLAWAHA RIVER AT EUREKA FLA. . . . .	41
OKLAWAHA RIVER AT MOSS BLUFF FLA. . . . .	37
OKLAWAHA RIVER AT RIVERSIDE LANDING NR ORANGE SPRINGS FLA . . .	45
OKLAWAHA RIVER AT RODMAN DAM NR ORANGE SPRINGS FLA. . . . .	44
OKLAWAHA RIVER NR CONNER FLA. . . . .	40
OKLAWAHA RIVER NR OCALA FLA . . . . .	38
OKLAWAHA RIVER NR ORANGE SPRINGS FLA. . . . .	43
ORANGE CREEK AT ORANGE SPRINGS FLA. . . . .	42
ORANGE RIVER NR FT MYERS FLA. . . . .	.148
ORTEGA RIVER AT JACKSONVILLE FLA. . . . .	51
OUTLET RIVER AT PANACOOCHEE RETREATS FLA. . . . .	.201
PALATLAKAHA RIVER AT CHERRY LAKE OUTLET NR GROVELAND FLA. . . .	33
PALATLAKAHA RIVER NR MASCOTTE FLA . . . . .	34
PEACE CREEK DRAINAGE CANAL NR ALTURAS FLA . . . . .	.151
PEACE CREEK DRAINAGE CANAL NR DUNDEE FLA. . . . .	.150
PEACE RIVER AT ARCADIA FLA. . . . .	.158
PEACE RIVER AT BARTOW FLA . . . . .	.154
PEACE RIVER AT ZOLFO SPRINGS FLA. . . . .	.155
PERDIDO RIVER AT BARRINEAU PARK FLA . . . . .	.259
PINE BARREN CREEK NR BARTH FLA. . . . .	.257

# INDEX OF STATIONS

PITHLACHASCOTEE RIVER NR NEW PORT RICHEY FLA. . . . .	.191
PLANTATION RD CANAL AT S-33 NR FT LAUDERDALE FLA. . . . .	.111
POND CREEK NR MILTON FLA. . . . .	.255
RAINBOW SPRINGS NR DUNNELLON FLA. . . . .	.204
REEDY CREEK NR FROSTPROOF FLA . . . . .	.83
REEDY CREEK NR LOUGHMAN FLA . . . . .	.79
REEDY CREEK NR VINELAND FLA . . . . .	.77
ROCKY COMFORT CREEK NR QUINCY FLA . . . . .	.232
ROCKY CREEK NR SULPHUR SPRINGS FLA. . . . .	.184
SADDLE CREEK AT S P11 NR BARTOW FLA . . . . .	.153
ST CLOUD CANAL AT S-59 NR ST CLOUD FLA. . . . .	.71
ST JOHNS RIVER AT PALATKA FLA . . . . .	.48
ST JOHNS RIVER NR CHRISTMAS FLA . . . . .	.26
ST JOHNS RIVER NR COCOA FLA . . . . .	.25
ST JOHNS RIVER NR DE LAND FLA . . . . .	.30
ST JOHNS RIVER NR MELBOURNE FLA . . . . .	.23
ST LUCIE CANAL AT LAKE OKEECHOBEE FLA . . . . .	.96
ST LUCIE CANAL AT LOCK NR STUART FLA. . . . .	.98
ST MARKS RIVER NR NEWPORT FLA . . . . .	.228
ST MARYS RIVER NR MACCLENNY FLA . . . . .	.19
SANTA FE RIVER AT WORTHINGTON SPRINGS FLA . . . . .	.216
SANTA FE RIVER NR FORT WHITE FLA. . . . .	.218
SANTA FE RIVER NR GRAHAM FLA. . . . .	.214
SANTA FE RIVER NR HIGH SPRINGS FLA. . . . .	.217
SEMINOLE LAKE OUTLET NR LARGO FLA . . . . .	.188
SHELL CREEK NR PUNTA GORDA FLA. . . . .	.161
SHINGLE CREEK AT AIRPORT NR KISSIMMEE FLA . . . . .	.72
SHINGLE CREEK AT CAMPRELL FLA . . . . .	.75
SHOAL RIVER NR CRESTVIEW FLA. . . . .	.251
SHOAL RIVER NR CRESTVIEW FLA. . . . .	.252
SHOAL RIVER NR MOSSY HEAD FLA . . . . .	.251
SILVER SPRINGS NR OCALA FLA . . . . .	.39
SIXMILE CREEK AT TAMPA FLA. . . . .	.172
SNAKE CREEK AT S29 AT NORTH MIAMI BEACH FLA . . . . .	.120
SNAKE CREEK CANAL AT NW 67 AVENUE NR HIALEAH FLA. . . . .	.119
SNAPPER CREEK CANAL AT MILLER DRIVE NR SOUTH MIAMI FLA. . . . .	.137
SNAPPER CREEK CANAL AT S22 NR SOUTH MIAMI FLA . . . . .	.138
SOPCHOPPY RIVER NR SOPCHOPPY FLA. . . . .	.228
SOUTH CANAL NR VERO BEACH FLA . . . . .	.62
SOUTH FORK BLACK CREEK NR PENNEY FARMS FLA. . . . .	.49
SOUTH NEW RIVER CANAL AT S-13 NR DAVIE FLA. . . . .	.117
SOUTH NEW RIVER CANAL AT S-9 NR DAVIE FLA . . . . .	.116
SOUTH PRONG ALAFIA RIVER NR LITHIA FLA. . . . .	.169
SOUTH PRONG ST MARYS RIVER AT GLEN ST MARY FLA. . . . .	.18
SPRUCE CREEK NR SAMSULA FLA . . . . .	.56
STEARNS CREEK NR LAKE PLACID FLA. . . . .	.86
STEINHATCHEE RIVER NR CROSS CITY FLA. . . . .	.221
SULPHUR SPRINGS AT SULPHUR SPRINGS FLA. . . . .	.182
SUWANNEE RIVER AT BRANFORD FLA. . . . .	.212
SUWANNEE RIVER AT ELLAVILLE FLA . . . . .	.210
SUWANNEE RIVER AT LURAVILLE FLA . . . . .	.211

# INDEX OF STATIONS

SUWANNEE RIVER NR BELL FLA. . . . .	.209
SUWANNEE RIVER NR WILCOX FLA. . . . .	.219
SUWANNEE RIVER AT WHITE SPRINGS FLA . . . . .	.220
SWEETWATER CREEK NR SULPHUR SPRINGS FLA . . . . .	.183
TAMIAMI CANAL NR CORAL GABLES FLA . . . . .	.136
TAMIAMI CANAL OUTLETS 40 MILE BEND TO MONROE FLA. . . . .	.131
TAMIAMI CANAL OUTLETS LEVEE 30 TO LEVEE 67A NR MIAMI FLA. . . . .	.135
TAMIAMI CANAL OUTLETS LEVEE 67A TO 40-MILE BEND, NR MIAMI FLA .134	
TAMIAMI CANAL OUTLETS, MIAMI TO MONROE FLA. . . . .	.132
TAMIAMI CANAL OUTLETS MONROE TO CARNESTOWN FLA. . . . .	.130
TAYLOR CREEK ABOVE OKEECHOBEE FLA . . . . .	94
TAYLOR CREEK NR BASSINGER FLA . . . . .	92
TAYLOR SLOUGH NR HOMESTEAD FLA. . . . .	.140
TELOGIA CREEK NR BRISTOL FLA. . . . .	.234
TENMILE CREEK AT LEBANON STATION FLA. . . . .	.208
THOMAS CREEK NR CRAWFORD FLA. . . . .	20
TOMOKA RIVER NR HOLLY HILL FLA. . . . .	55
TURKEY CREEK AT MACCLENNY FLA . . . . .	17
TURKEY CREEK NR PALM BAY FLA. . . . .	58
WACCASASSA RIVER NR GULF HAMMOCK FLA. . . . .	.207
WEKIVA RIVER NR SANFORD FLA . . . . .	29
WEST PALM BEACH CANAL ABOVE S-5A NR LOXAHATCHEE FLA . . . . .	.100
WEST PALM BEACH CANAL AT HGS-5 AT CANAL POINT FLA . . . . .	99
WEST PALM BEACH CANAL AT WEST PALM BEACH FLA. . . . .	.104
WEST PALM BEACH CANAL BELOW S-5A NR LOXAHATCHEE FLA . . . . .	.103
WHITTENHORSE CREEK NR VINELAND FLA. . . . .	76
WILLIAMSON DITCH AT S-7 NR OKEECHOBEE FLA . . . . .	93
WITHLACOOCHEE RIVER AT CROOM FLA. . . . .	.199
WITHLACOOCHEE RIVER AT INGLIS DAM NR DUNNELL. . . . .	.205
WITHLACOOCHEE RIVER AT TRILBY FLA . . . . .	.196
WITHLACOOCHEE RIVER AT WYSONG DAM NR CARLSON FLA. . . . .	.202
WITHLACOOCHEE HILLSBOROUGH OVERFLOW NR RICHLAND FLA . . . . .	.195
WITHLACOOCHEE RIVER NR CUMPRESCO FLA . . . . .	.194
WITHLACOOCHEE RIVER NR EVA FLA. . . . .	.193
WITHLACOOCHEE RIVER NR HOLDER FLA . . . . .	.203
WITHLACOOCHEE RIVER NR PINETTA FLA. . . . .	.210
WOLF CREEK NR DEER PARK FLA . . . . .	24
YELLOW RIVER AT MILLIGAN FLA. . . . .	.249