

HYDROLOGIC DATA FROM SMALL RURAL AND DEVELOPING WATERSHEDS
IN WEST-CENTRAL FLORIDA, 1931-34

By W. M. Woodham

U.S. GEOLOGICAL SURVEY

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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT



Tallahassee, Florida

1986

UNITED STATES DEPARTMENT OF THE INTERIOR

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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 SI units</u>
inch (in.)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
acre	0.4047	hectare (ha)
acre-foot (acre-ft)	0.001233	cubic hectometer (hm ³)
square mile (mi ²)	2.590	square kilometer (km ²)
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second (m ³ /s)

Temperature in degrees Fahrenheit (°F) can be converted to degrees Celsius (°C)
as follows:

$$^{\circ}\text{F} = 1.8(^{\circ}\text{C} + 32)$$

HYDROLOGIC DATA FROM SMALL RURAL AND DEVELOPING WATERSHEDS
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ABSTRACT

This report summarizes hydrologic data collected on six small rural and developing watersheds in west-central Florida from 1981 to 1984. The report includes hydrographs of data from 6 recording streamflow gages and 10 recording rain gages. Fifteen-minute rainfall and discharge data are stored for five watersheds and 5-minute data are stored for one watershed in the computer files of the U.S. Geological Survey. Tables and hydrographs of daily discharge and daily rainfall for each station are included in the report.

INTRODUCTION

Rapid urban development, with related changes in land use, in west-central Florida is occurring in small watersheds and in flood plains of streams where the history of flooding has not been documented. Problems that accompany rapid development often include higher flood-peak discharges and greater potential for property damage and personal injury. Flood-frequency characteristics of small watersheds have not been defined by the regular stream gaging program of the U.S. Geological Survey. Data are needed to help develop criteria for avoiding or minimizing the effects of flooding in developing areas.

Regional flood-frequency relations for natural, unregulated basins with drainage areas greater than 10 mi² have been developed for west-central Florida (Seijo and others, 1979). An urban hydrology study by Lopez and Woodham (1983) addressed the characteristics of urban runoff. Flood-frequency relations on natural-flow streams with drainage areas greater than 0.92 mi² were developed for the State of Florida by Bridges (1982).

This report makes available hydrologic data collected from April 1981 to September 1984 by the U.S. Geological Survey in cooperation with the Southwest Florida Water Management District. These data provide a base for rainfall-runoff modeling and may be used in evaluating results of existing methods used for estimating flood hydrographs and for developing new rainfall-runoff models. There were no apparent basin characteristic changes as a result of development during the study period.

PURPOSE AND SCOPE

The purpose of this report is to summarize rainfall and streamflow data that can be used to extend existing regional flood-frequency relations in west-central Florida. The rainfall and streamflow data are from six rural and developing watersheds that have drainage areas from 0.47 to 6.1 mi². The data were collected from 1981 to 1984. The six watersheds span a range in drainage areas, land use, and soil types that typify basins in the rapidly developing areas of west-central Florida.

Data included in this report, and other data on small rural and developing watersheds in west-central Florida, can be used to develop flood-frequency relations for estimating peak discharges. The developed flood-frequency relations will allow adjustment of flood-frequency information from natural streams to streams having varying levels of development.

DESCRIPTION OF THE AREA

The study area is in west-central Florida and includes watersheds in Hardee, Hillsborough, and Pinellas Counties (fig. 1). The watersheds are tributary to the Peace River, Tampa Bay, and the Gulf of Mexico.

Topography

The study area lies within two of the five natural topographic regions of Florida: the Coastal Lowlands and the Central Highlands (Pride, 1958). Land-surface altitudes range from about 10 feet above sea level in northern Pinellas County to 135 feet in southern Hillsborough County.

Extensive low-lying areas of northwest Hillsborough and northern Pinellas Counties have little relief and natural drainage patterns are poorly defined. For example, approximately one-half the drainage area of the Hollin Creek basin in the northeastern part of Pinellas County (fig. 1) is in a noncontributing well-field area. If data from the basins are to be used for model development, field varification of drainage boundaries should be done to identify any possible changes in drainage patterns and to define noncontributing areas.

Hydrogeology

West-central Florida is underlain by the Floridan aquifer system, a major water-supply source. The aquifer system is composed primarily of limestone and dolomite of Eocene, Oligocene, and Miocene ages (Seijo and others, 1979). Hillsborough, Pinellas, and Hardee Counties also contain sands that overlie the Floridan aquifer system and comprise the surficial aquifer. The water table of the surficial aquifer is generally about 5 to 10 feet below land surface. The structure and composition of the overlying soils influence runoff in varying amounts. In areas covered by highly permeable sands, rainfall infiltrates rapidly, which reduces surface runoff. In areas where rocks and soils are less pervious, infiltration is reduced and runoff is higher (Lopez and Woodham, 1983).

Climate

The climate of the study area is characterized by warm, humid summers and mild winters. Temperatures generally range from about 70° to 90°F during the summer and 32° to 70°F during the winter (Lopez and Woodham, 1983). Temperatures at the U.S. National Weather Service station in Tampa ranged from a low of 19°F to a high of 96°F during the 4-year study period (1981-84). The lowest annual precipitation recorded at Tampa during the study period was 32.31 inches in 1984 and the highest was 60.87 inches in 1983. The 4-year average precipitation was 47.16 inches (National Oceanic and Atmospheric Administration, 1982-85).

Most of the annual rainfall occurs between June and September from short-duration, intense afternoon and evening thunderstorms. Hurricanes, tropical storms, and other storm depressions that occur mostly between June and November occasionally produce long-duration, heavy rainfall. Rainfall from December to May usually occurs from less frequent, long-duration, frontal storms.

HYDROLOGIC DATA COLLECTED

A rainfall and streamflow network was established in 1981-82 and included 6 continuous-record streamflow stations and 10 recording rain gages. A description for each data-collection site and period of record is included in the Appendixes at the end of this report. Gage locations, drainage boundaries, and wetland areas for each watershed are shown in figures 2 through 7.

Rainfall

Rainfall data consist of total rainfall amounts that occur in 5- or 15-minute time intervals (unit values) and are recorded on paper tape to the nearest 0.01 inch. The total rainfall between routine servicing periods was measured and used to verify recorded data and to estimate daily rainfall in the event of recorder malfunction.

For some sites, there were a few periods when suitable rainfall records were not obtained. For such periods, daily totals were estimated by distributing the total amount received and retained during periods between recorder servicing and compared with records for nearby rain gages and with streamflow. Unit values were not stored for periods of recorder malfunction. However, estimated daily totals were stored as they are generally necessary for computation of antecedent-moisture components used in rainfall-runoff models.

Streamflow

Data at gaging stations consist of records of stage and measurements of discharge. Observations of factors that affect the stage-discharge relation, weather records, and other information were used to supplement those data in

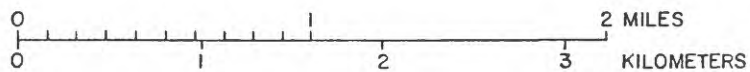
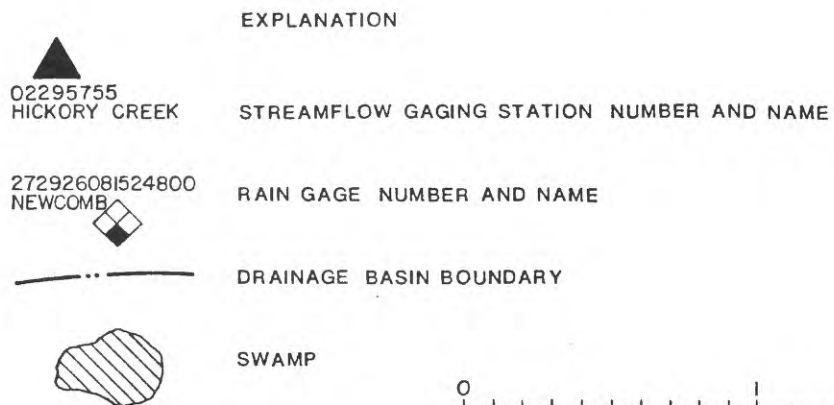
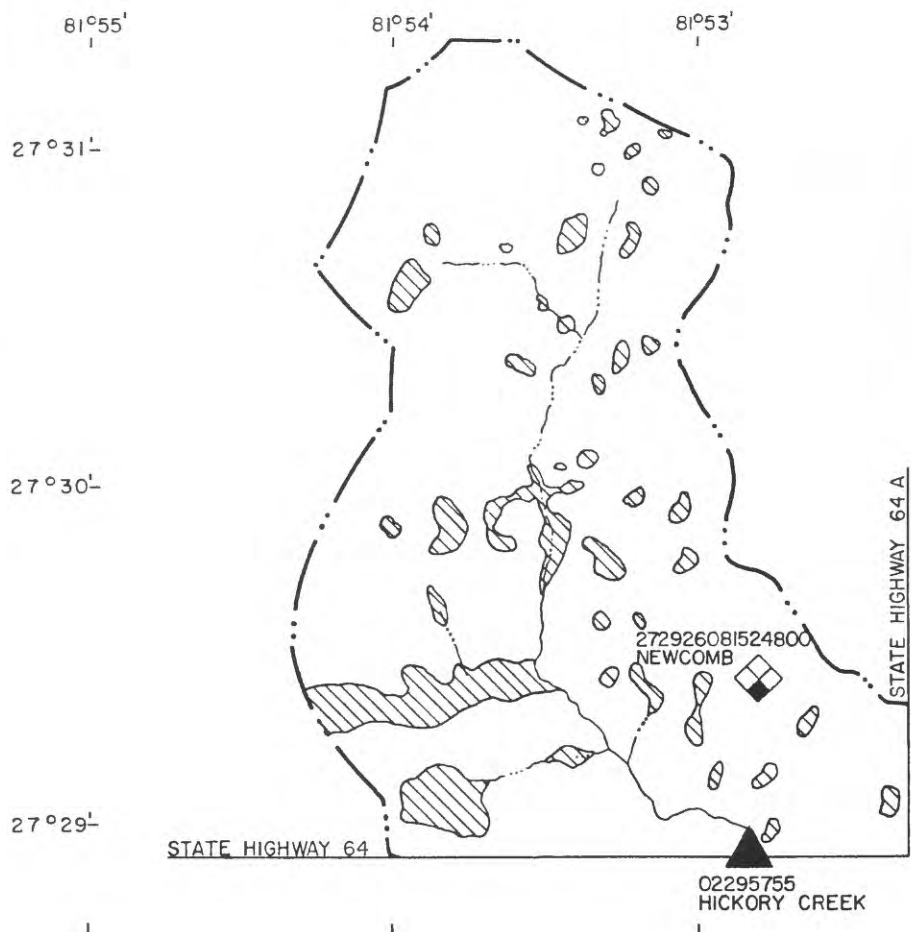


Figure 2.--Hickory Creek watershed.

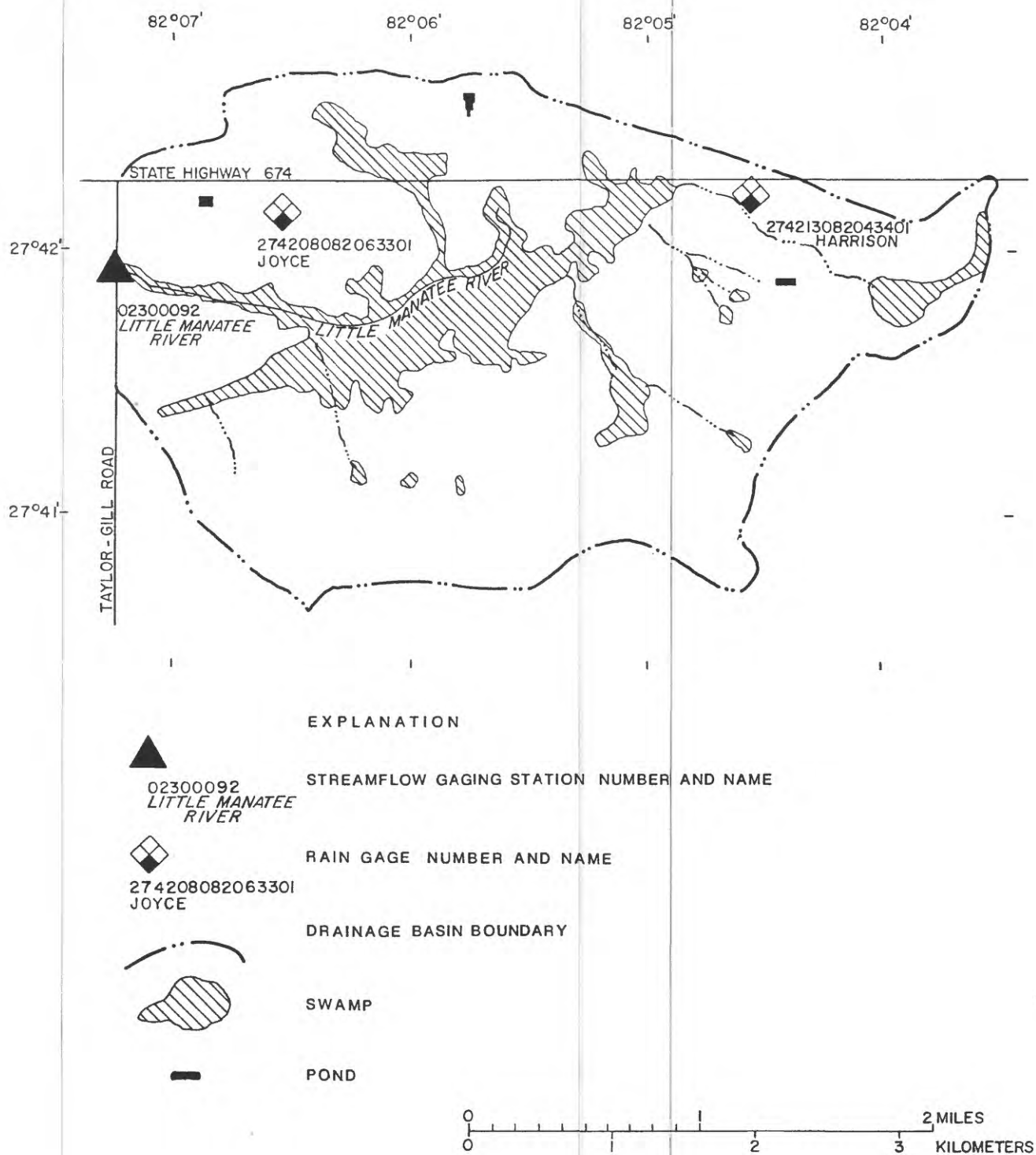
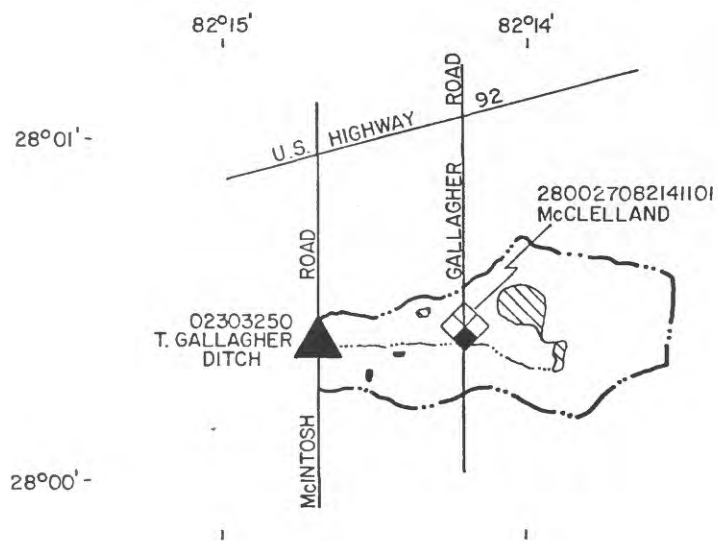


Figure 3.--Little Manatee River watershed.



EXPLANATION

02303250
T. GALLAGHER
DITCH



STREAMFLOW GAGING STATION NUMBER AND NAME



280027082141101
McCLELLAND

RAIN GAGE NUMBER AND NAME



DRAINAGE BASIN BOUNDARY



SWAMP



POND

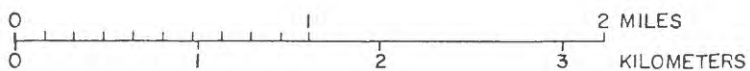


Figure 4.--T. Gallagher Ditch watershed.

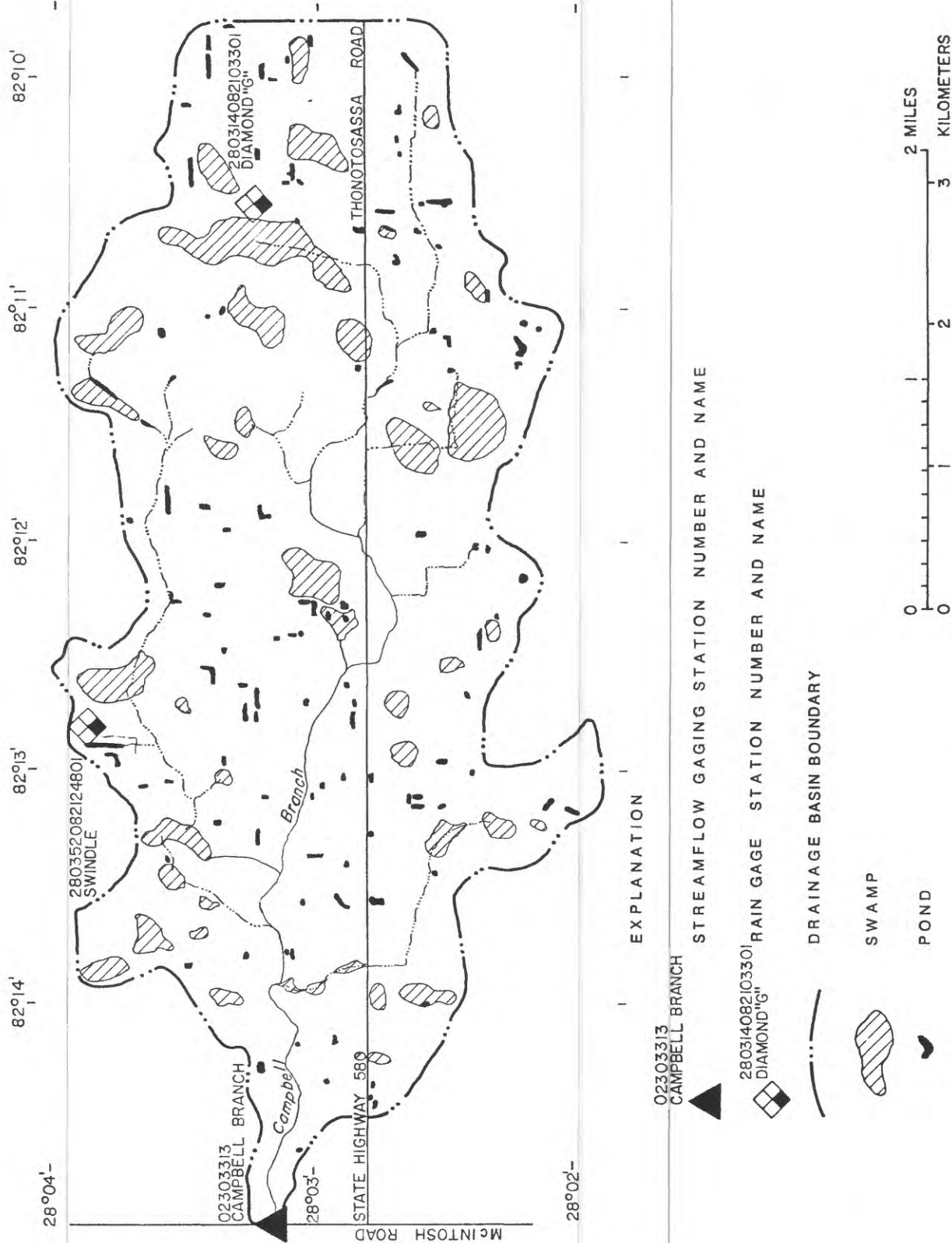


Figure 5.--Campbell Branch watershed.

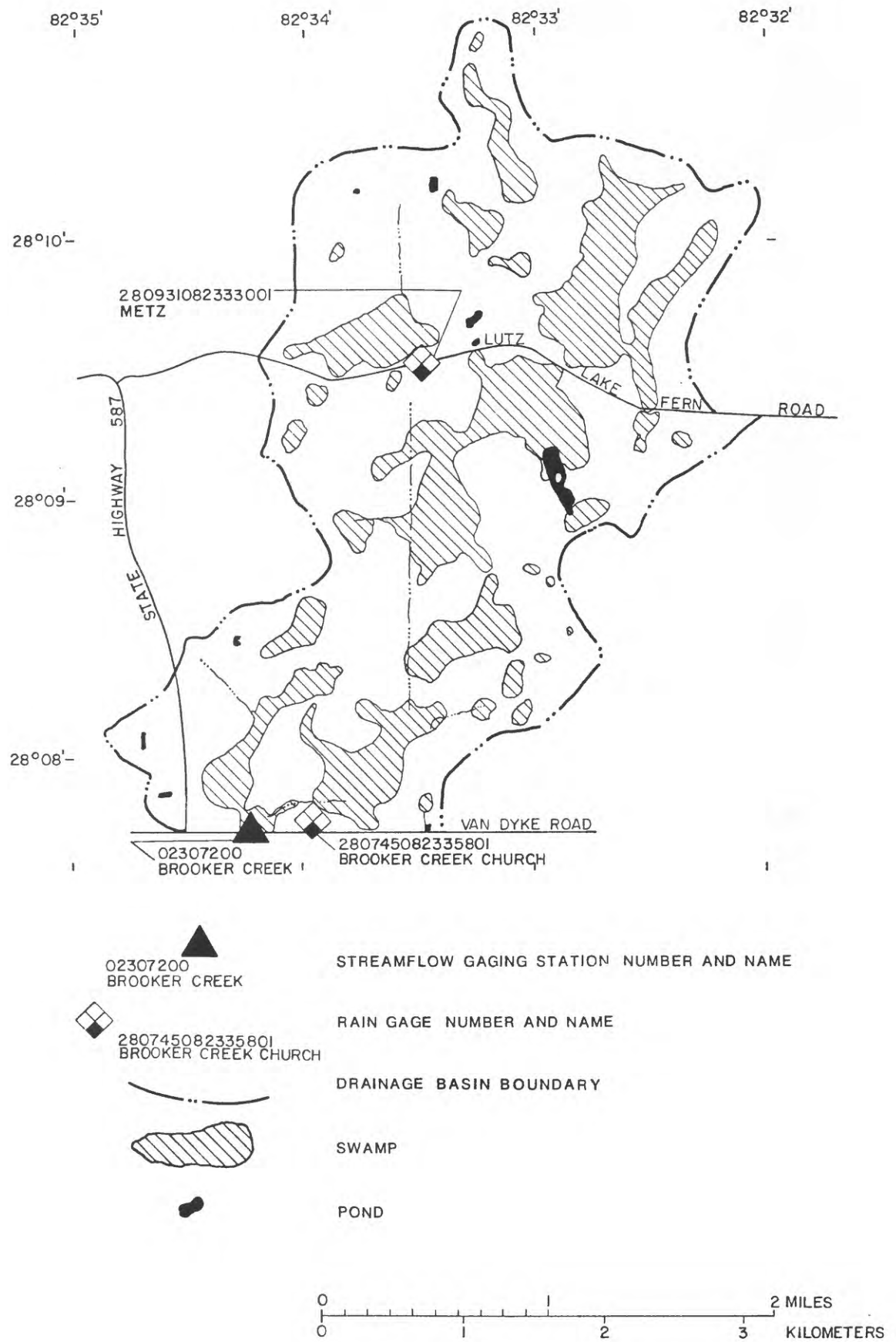


Figure 6.--Brooker Creek watershed.

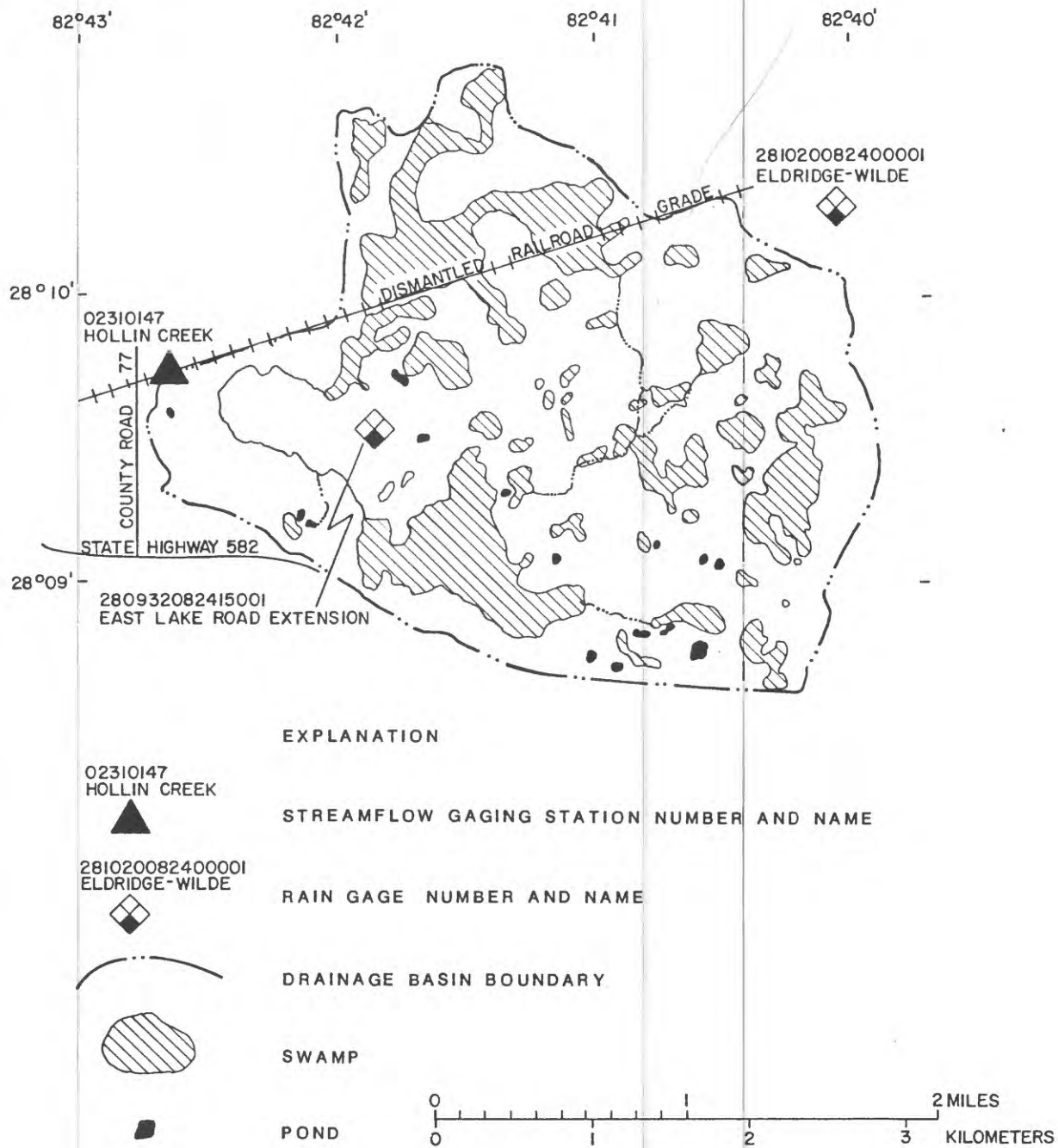


Figure 7.--Hollin Creek watershed.

determining the daily discharges. Records of stage were obtained either by direct readings on a nonrecording gage or from a water-stage recorder that recorded stream stage on a tape punched at 5- or 15-minute time intervals (unit values). Measurements of discharge were made with a current meter using the general methods adopted by the U.S. Geological Survey. These methods are described by Carter and Davidian (1968), Rantz and others (1982), and in standard textbooks.

For some gaging stations, there are periods when stage record was not obtained. This happened when the recorder stopped or otherwise failed to operate properly or when plugged intakes or other unusual conditions resulted in erroneous readings. For such periods, daily discharges were estimated on the basis of recorded range in stage, adjoining record, discharge measurements, weather records, and by comparison with records from other stations on the same or a nearby stream.

HYDROLOGIC DATA FILES

Data obtained for this study were systematically processed and stored on the Geological Survey computer system in Tampa, Fla. The data were subsequently transferred to the WATSTORE (National Water Data Storage and Retrieval System) unit- and daily-values files of the national computer system in Reston, Va.

Storm Rainfall and Discharge Data

Recorded storm rainfall and discharge for 5- or 15-minute time intervals are stored in the WATSTORE unit-values file. Available rainfall and discharge unit-values data are summarized in table 1. A typical discharge hydrograph and rainfall hyetograph, as developed from unit-values-file data, are shown in figure 8.

Daily Rainfall and Discharge Data

Daily total rainfall and daily mean discharge data are stored in the WATSTORE daily-values file. Mean daily discharge and daily rainfall and site descriptions are given in the Appendixes at the end of this report. Hydrographs of mean daily discharge and daily rainfall for each watershed are shown in figures 9 through 14. The hydrographs are for the entire period of record at each gage. They provide a quick reference in selecting storms for which data are desired or rainfall-runoff analyses are to be made.

DATA AVAILABILITY

Data collected during this study are available upon request. Access to the 5- or 15-minute time-interval unit values of rainfall and discharge data will permit local agencies, consultants, and planners to use these data as needed. The data are stored in the WATSTORE unit- and daily-values files and can be accessed by compatible computer terminal. Examples of rainfall data and discharge data from the unit-values files for the August 5, 1984, storm at Hickory Creek near Ona are shown in tables 2 and 3, respectively.

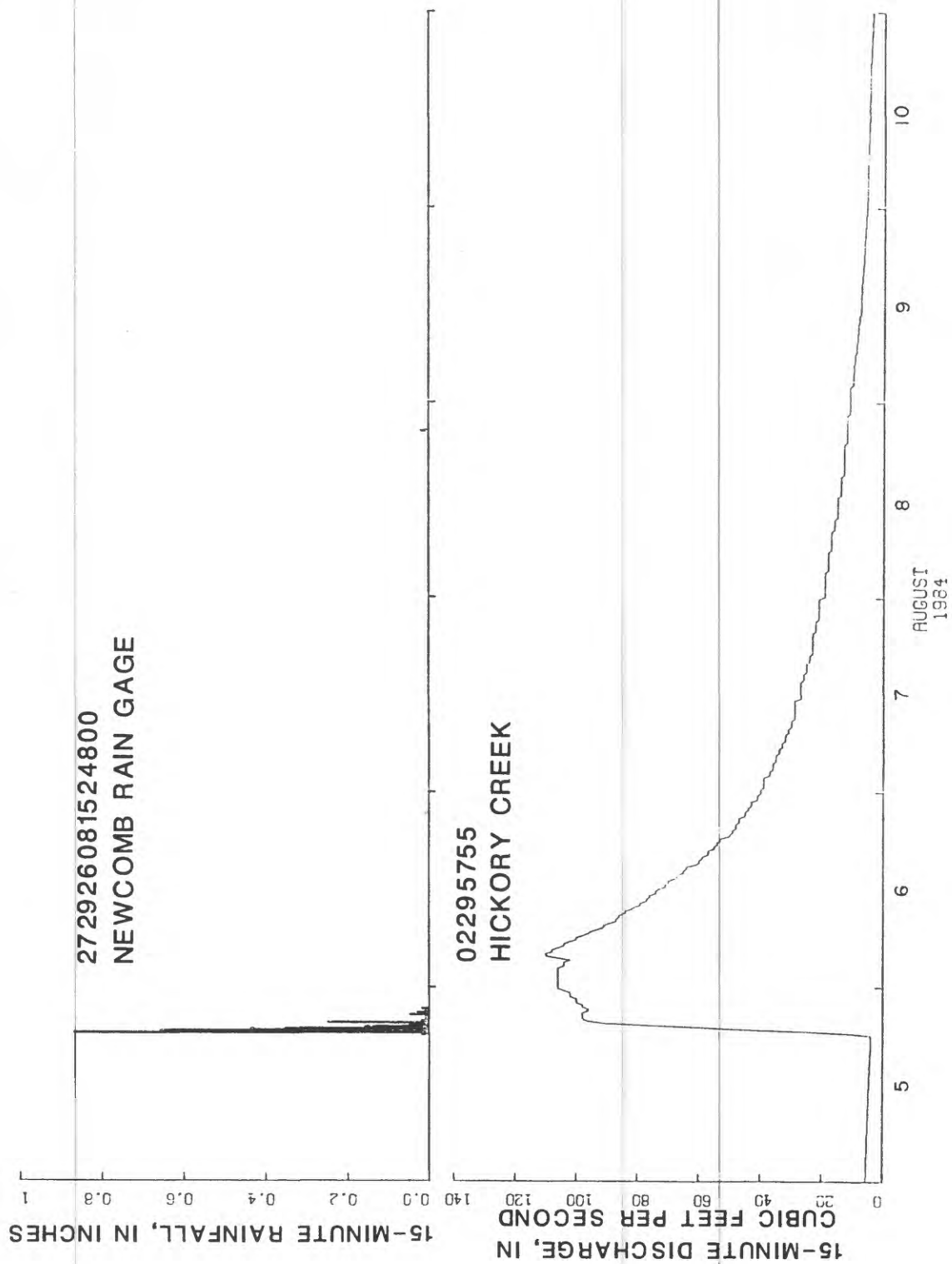


Figure 8.--Storm runoff and rainfall for August 5-10, 1984, at Hickory Creek near Ona.

Table 1.--Rainfall and discharge data stored in the unit-values file
[15-minute interval except as noted 1/]

Watershed	Rainfall	Discharge
02295755 Hickory Creek	272926081524800 Newcomb rain gage	1982: Feb. 11 to Dec. 31
	1982: Feb. 12 to Mar. 4, Mar. 7 to July 7, Aug. 4 to Dec. 31	1983: Jan. 1 to Dec. 31 1984: Jan. 1 to Sept. 30
	1983: Jan. 1 to Mar. 10, Mar. 22 to Apr. 3, Apr. 20-25, May 13-15, May 20 to Dec. 31	
	1984: Jan. 1 to Sept. 30	
02300092 Little Manatee River	274208082063301 Joyce rain gage	1981: Apr. 3 to June 12, June 16 to July 30, Aug. 27 to Sept. 30
	1981: Apr. 28 to July 10, July 18-31, Sept. 1-10, Oct. 1-12, Oct. 30 to Dec. 31	1982: Jan. 1 to Dec. 31
	1982: Jan. 1 to Dec. 31	1983: Jan. 1 to Sept. 3, Sept. 7 to Dec. 31
	1983: Jan. 1 to Nov. 23, Dec. 16-31	1984: Jan. 1 to Sept. 30
	1984: Jan. 1 to Feb. 12, Feb. 16 to Sept. 30	
	274213082043401 Harrison rain gage	
	1981: Apr. 28 to July 28, Sept. 1 to Dec. 31	
	1982: Jan. 1 to Dec. 31	
	1983: Jan. 1-11, Feb. 11 to Dec. 31	
	1984: Jan. 1 to Feb. 16, Mar. 16 to Sept. 30	

Footnote is at end of table.

Table 1.--Rainfall and discharge data stored in the unit-values file--Continued

Watershed	Rainfall	Discharge
02303250 T. Gallagher Ditch	280027082141101 McClelland rain gage ^{1/} 1981: Apr. 28 to Dec. 31 1982: Jan. 1 to Dec. 31 1983: Jan. 1 to Feb. 19, Feb. 22 to Dec. 31 1984: Jan. 1 to May 8, May 22 to Sept. 30	1981: Apr. 7-26, June 1, June 11 to Sept. 3, Sept. 9 to Dec. 31 1982: Jan. 1 to Feb. 14, Mar. 5-8, Mar. 31 to Dec. 31 1983: Jan. 1 to Aug. 6, Aug. 17 to Dec. 31 1984: Jan. 1 to Sept. 9, Sept. 27-30
02303313 Campbell Branch	280314082103301 Diamond "G" rain gage 1981: June 11 to Dec. 31 1982: Jan. 1 to Feb. 13, Mar. 8 to Nov. 4, Nov. 19 to Dec. 31 1983: Jan. 1 to Dec. 31 1984: Jan. 1 to May 8, May 29 to Aug. 27, Sept. 4-30 280352082124801 Swindle rain gage 1981: June 11 to Dec. 31 1982: Jan. 1 to Aug. 28, Sept. 15 to Dec. 8, Dec. 14-31 1983: Jan. 1 to Apr. 3, Apr. 20 to June 26, July 12 to Sept. 15, Sept. 21 to Oct. 7, Oct. 25 to Dec. 5 1984: Jan. 12 to July 1, July 24 to Sept. 30	1981: Apr. 10 to May 11, May 15-22, June 1 to Dec. 31 1982: Jan. 1 to Dec. 31 1983: Jan. 1 to May 1, May 30 to June 21, June 24 to July 21, Aug. 4 to Oct. 3, Nov. 20-22, Dec. 6-8, Dec. 11-31 1984: Jan. 1 to Feb. 5, Feb. 12 to Mar. 5, Mar. 12-15, Mar. 27-29, Apr. 3-10, Apr. 13-16, May 9, May 10, June 16-20, June 29 to Sept. 9, Sept. 27-30

Footnote is at end of table.

Table 1.--Rainfall and discharge data stored in the unit-values file--Continued

Watershed	Rainfall	Discharge
02307200 Brooker Creek	280745082335801 Brooker Creek Church rain gage	1981: Apr. 9 to Dec. 31 1982: Jan. 1 to Dec. 31 1983: Jan. 1 to Mar. 26, Apr. 6 to July 10, Aug. 7 to Sept. 15, Sept. 20-30, Oct. 24 to Dec. 31 1984: Jan. 1 to Sept. 30
	280931082333001 Metz rain gage	
	1981: Apr. 27 to June 15, June 18 to Nov. 11, Dec. 1-31 1982: Jan. 1-5, Jan. 7 to Dec. 31 1983: Jan. 1 to Dec. 31 1984: Jan. 1 to Sept. 30	
02310147 Hollin Creek	280932082415001 East Lake Road Extension rain gage	1981: July 11 to Aug. 6, Aug. 15 to Nov. 13, Dec. 2-31 1982: Jan. 1 to Dec. 31 1983: Jan. 1 to Dec. 28 1984: Jan. 12 to Feb. 14, Mar. 13 to Sept. 30
	281020082400001 Eldridge-Wilde rain gage	
	1981: June 23 to Dec. 31 1982: Jan. 1 to Dec. 31 1983: Jan. 1 to Nov. 8, Dec. 1-28 1984: Jan. 4 to Sept. 30	

$\frac{1}{5}$ -minute interval.

Direct Access

Access to WATSTORE is available to Federal agencies and selected local agencies who acquire or use water data. Authorization to use WATSTORE can be obtained from the Chief Hydrologist, U.S. Geological Survey, National Center, Mail Stop 409, Reston, VA 22092. When the request is approved, a notice of authorization, an assigned agency (user) code, and account numbers are provided to the requester. Retrievals are made using the procedure described by Hutchinson (1975) or Carrigan and others (1977). The cost of the retrieval is charged to the user's account.

Requests Through U.S. Geological Survey Offices

Requests for data stored in WATSTORE can be made through U.S. Geological Survey offices that have a terminal connected to the National Center. The station identification number, type of data, and dates desired will be needed by Survey personnel to process the requester's WATSTORE retrieval. The cost of preparing the requester's control cards and the computer charges may be billed to the requester depending on the time and effort required.

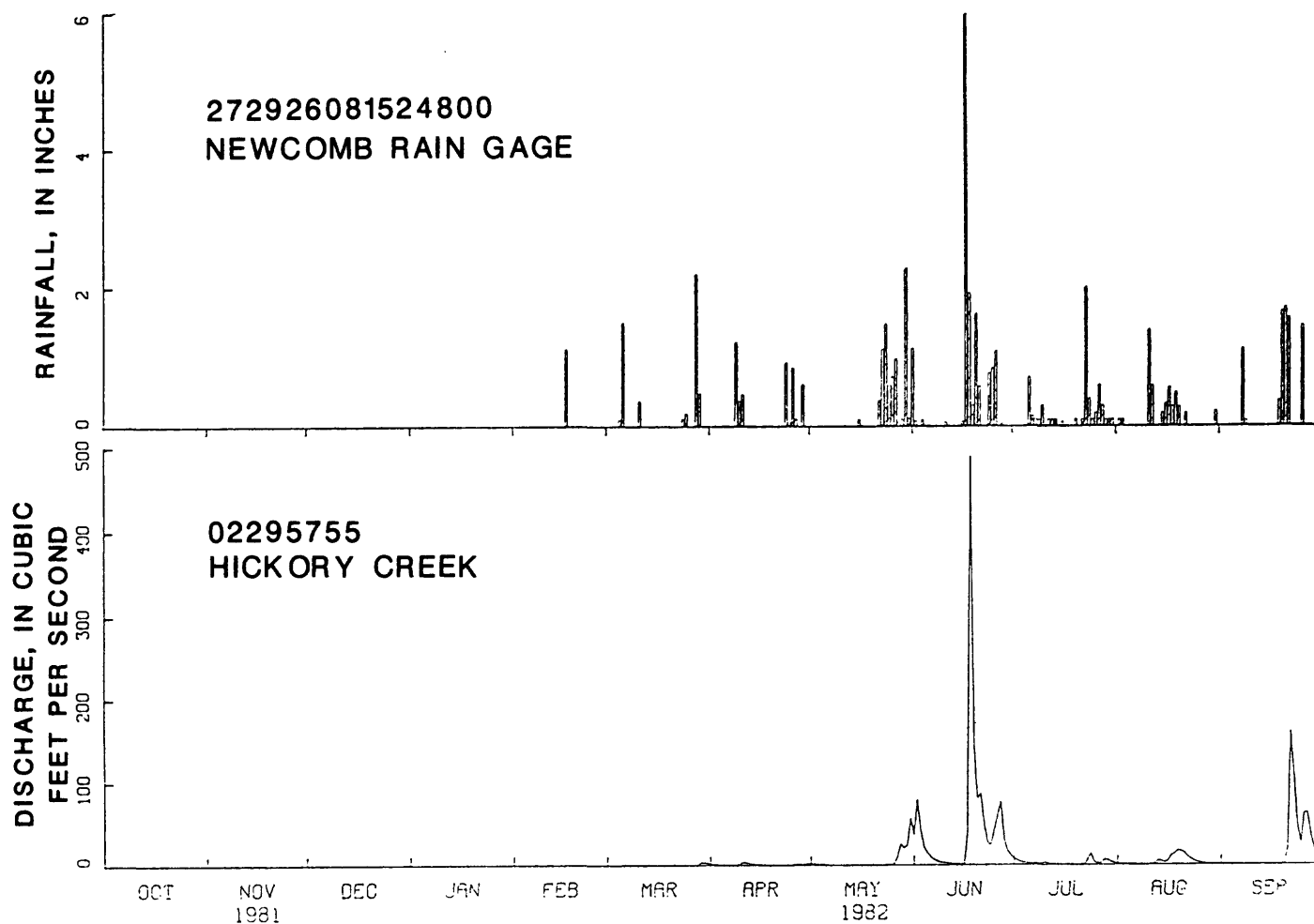


Figure 9.--Daily discharge and rainfall for the Hickory Creek watershed, 1982-84.

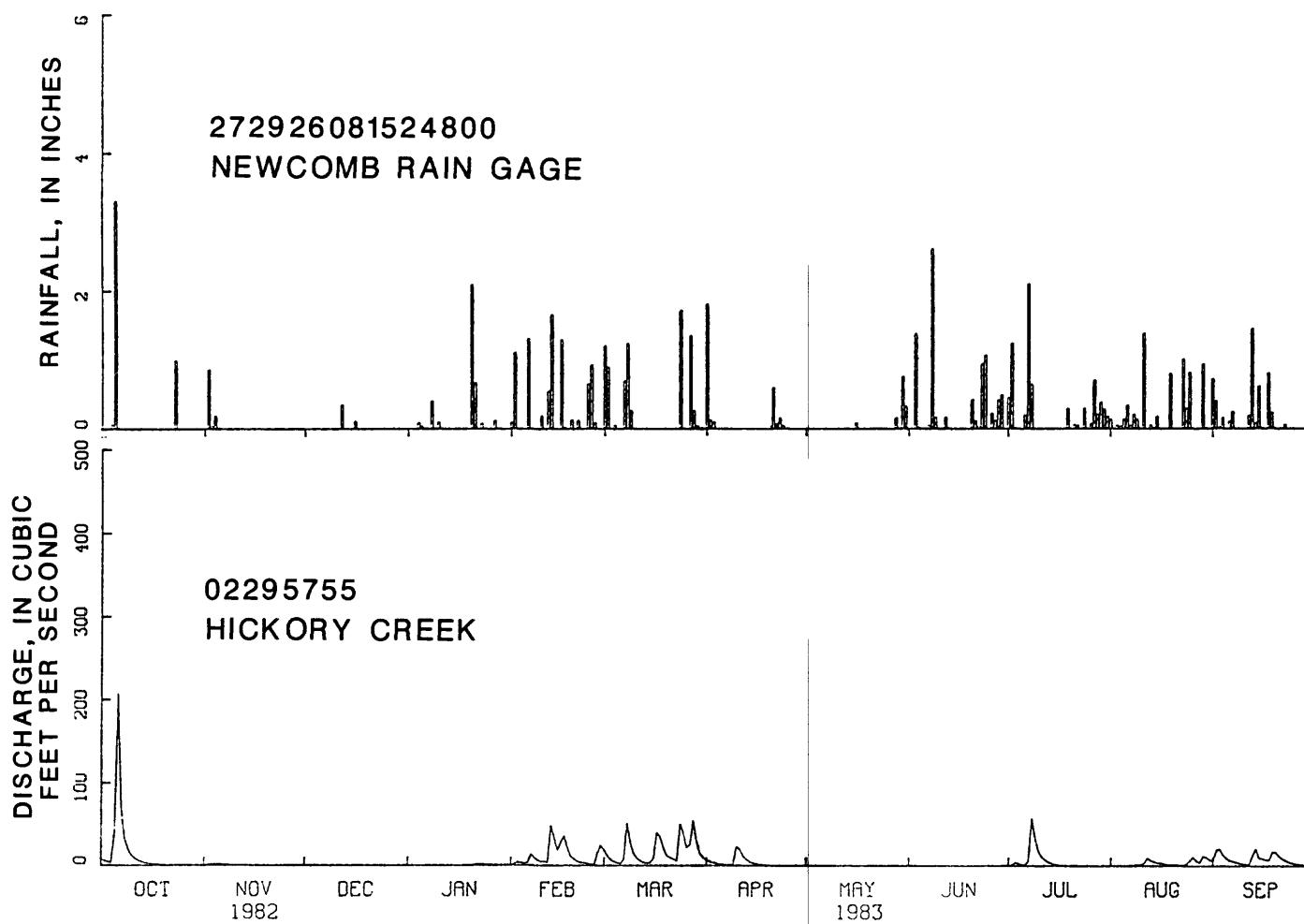


Figure 9.--Daily discharge and rainfall for the Hickory Creek watershed, 1982-84--Continued.

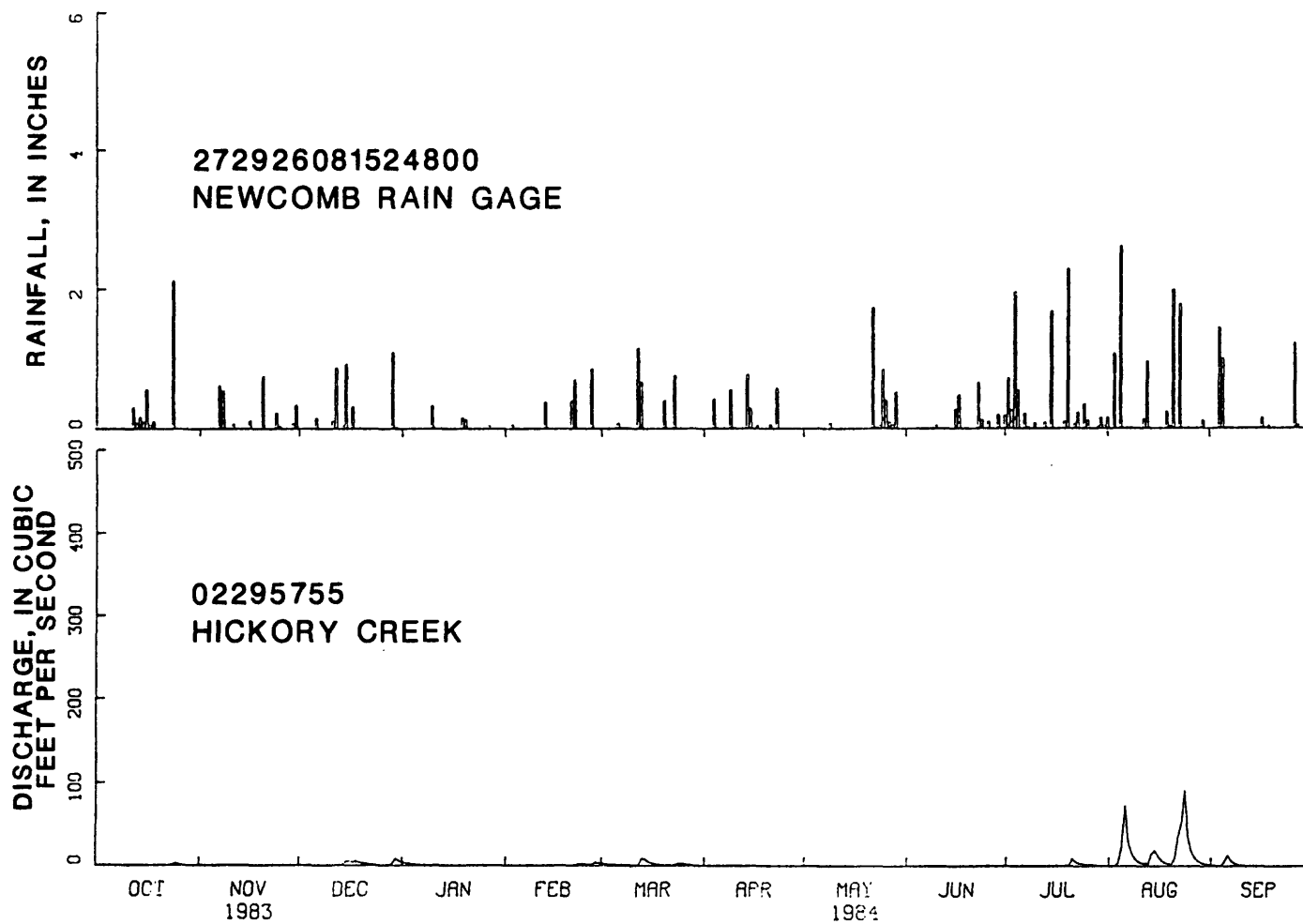


Figure 9.--Daily discharge and rainfall for the Hickory Creek watershed, 1982-84--Continued.

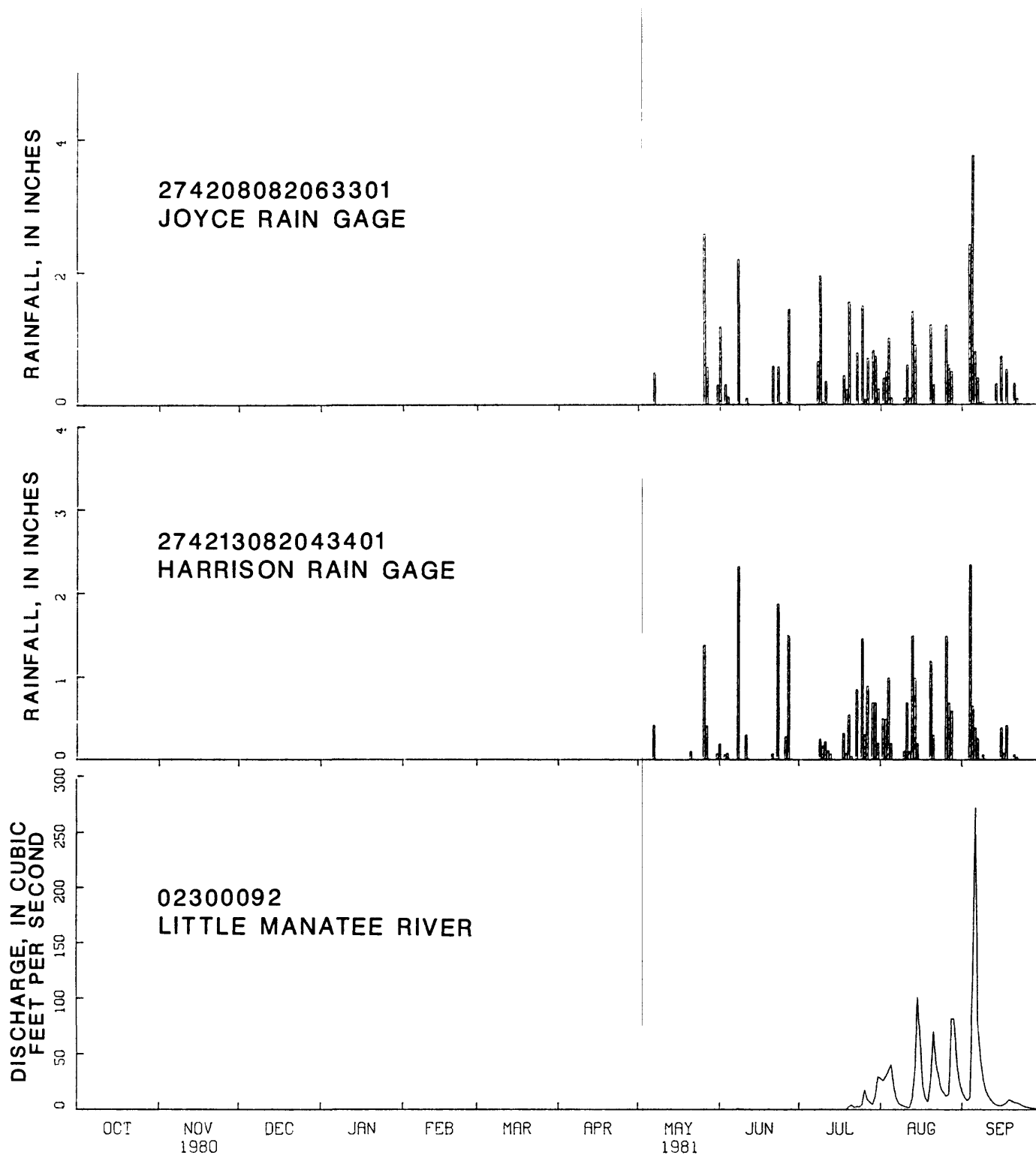


Figure 10.--Daily discharge and rainfall for the Little Manatee River watershed, 1981-84.

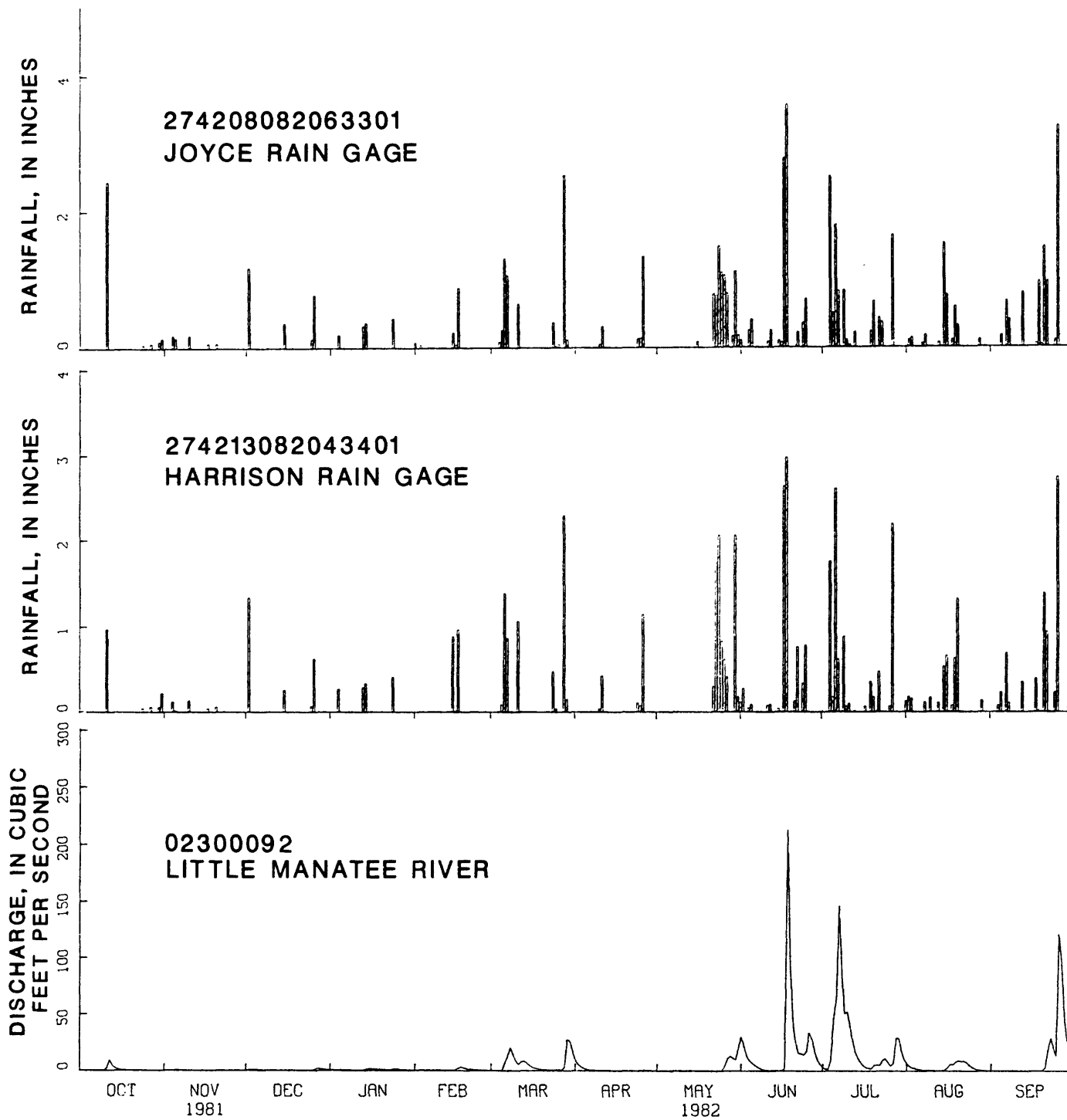


Figure 10.--Daily discharge and rainfall for the Little Manatee River watershed, 1981-84--Continued.

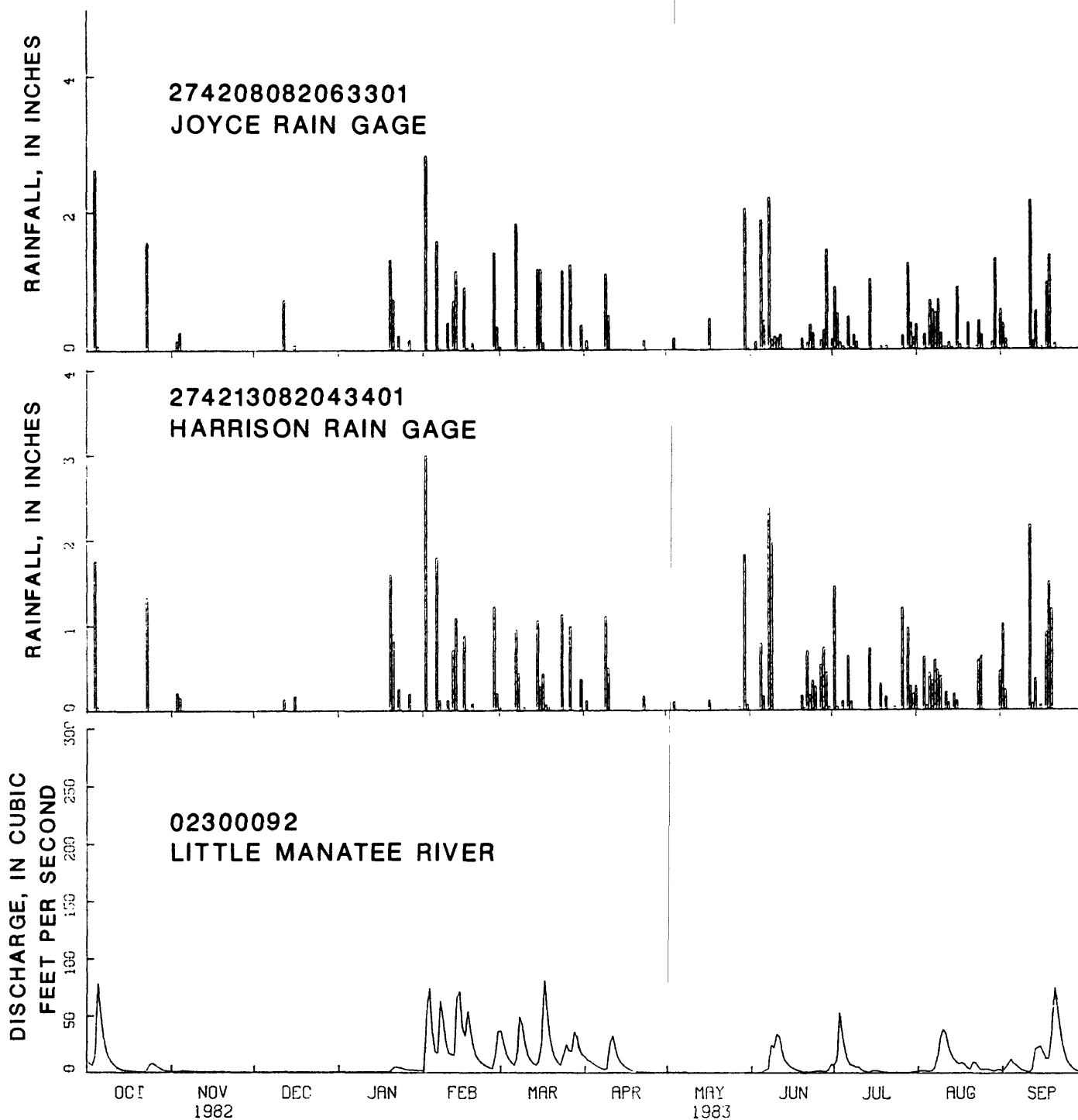


Figure 10.--Daily discharge and rainfall for the Little Manatee River watershed, 1981-84--Continued.

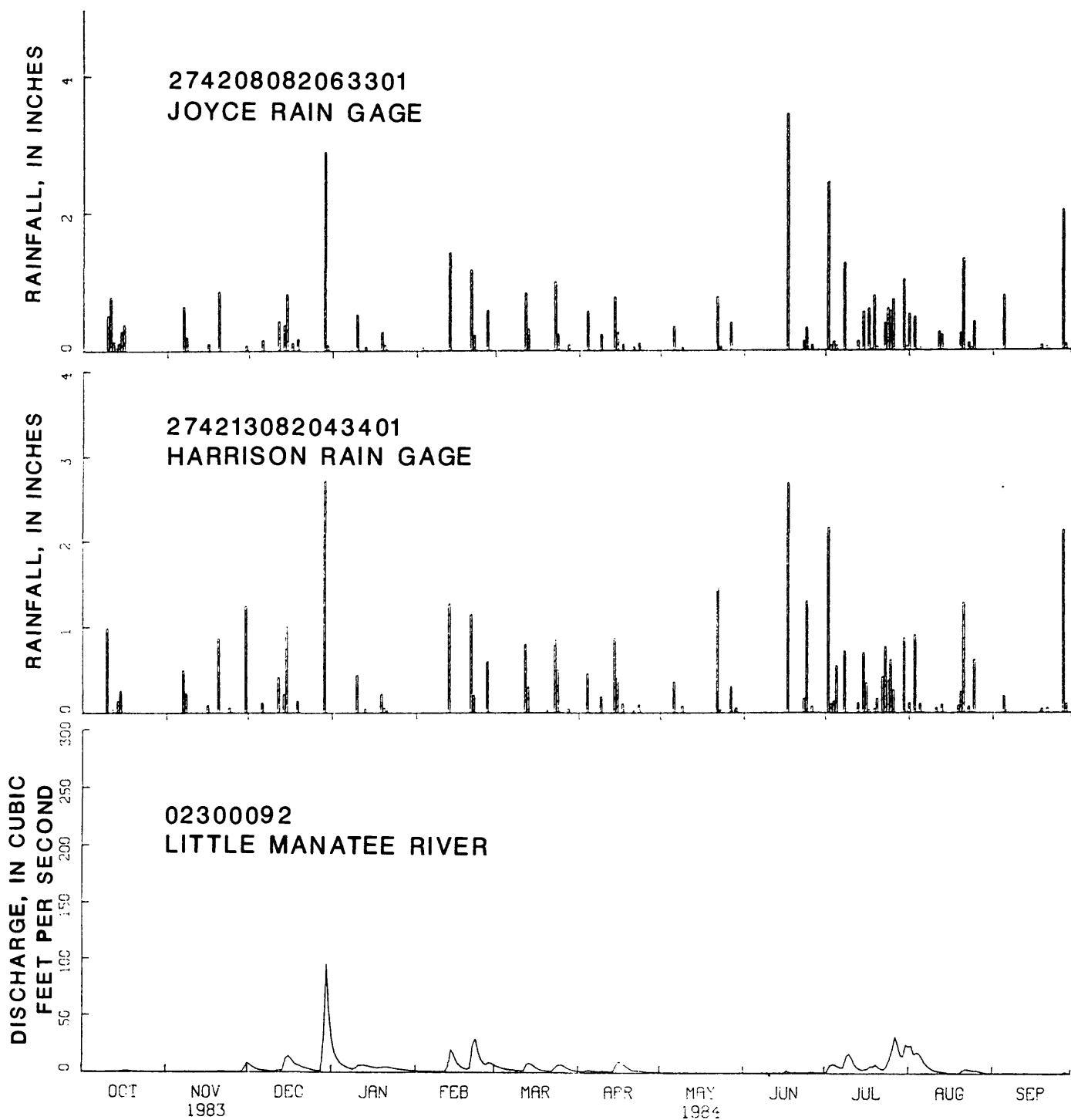


Figure 10.--Daily discharge and rainfall for the Little Manatee River watershed, 1981-84--Continued.

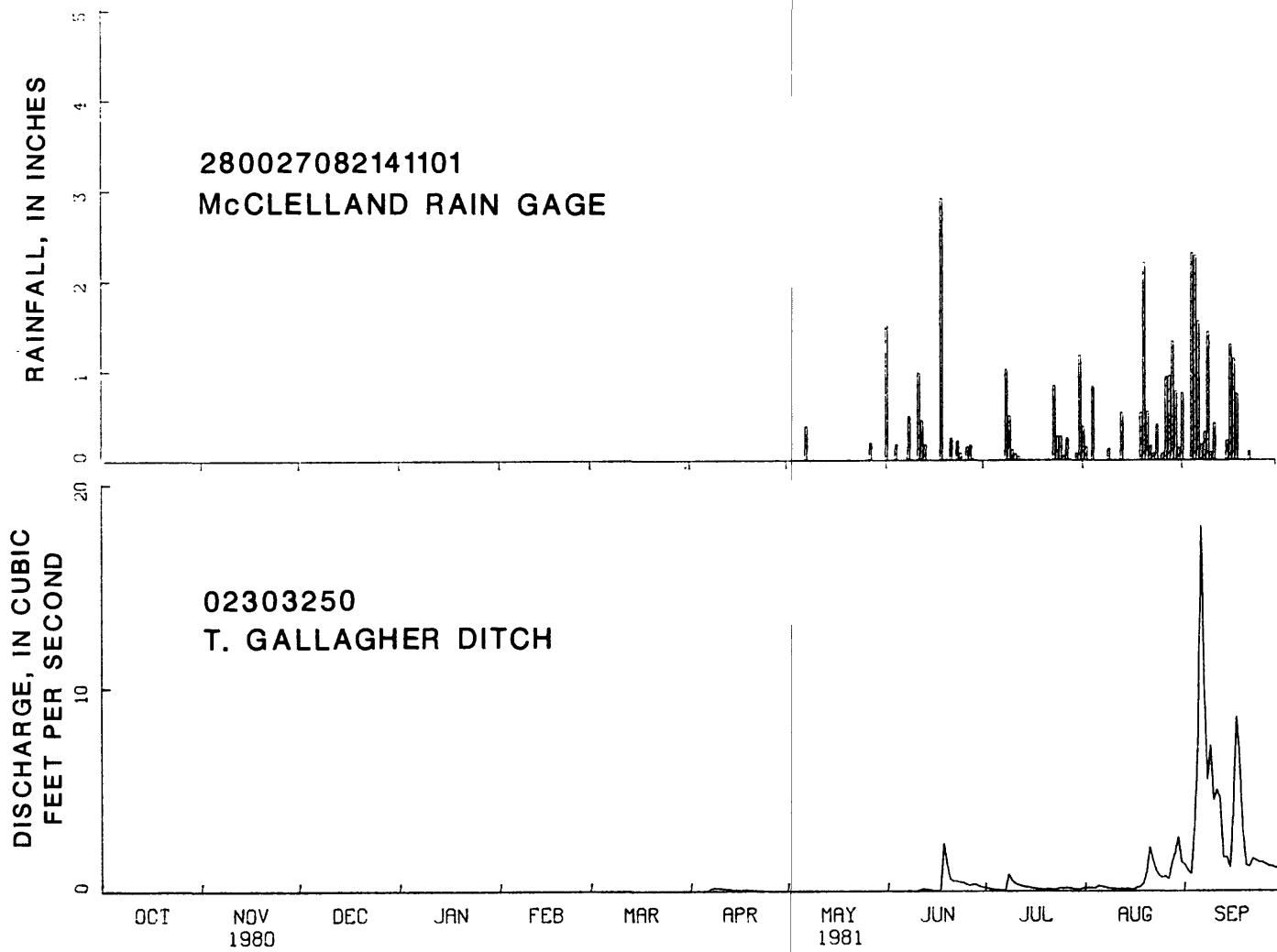


Figure 11.--Daily discharge and rainfall for the T. Gallagher Ditch watershed, 1981-84.

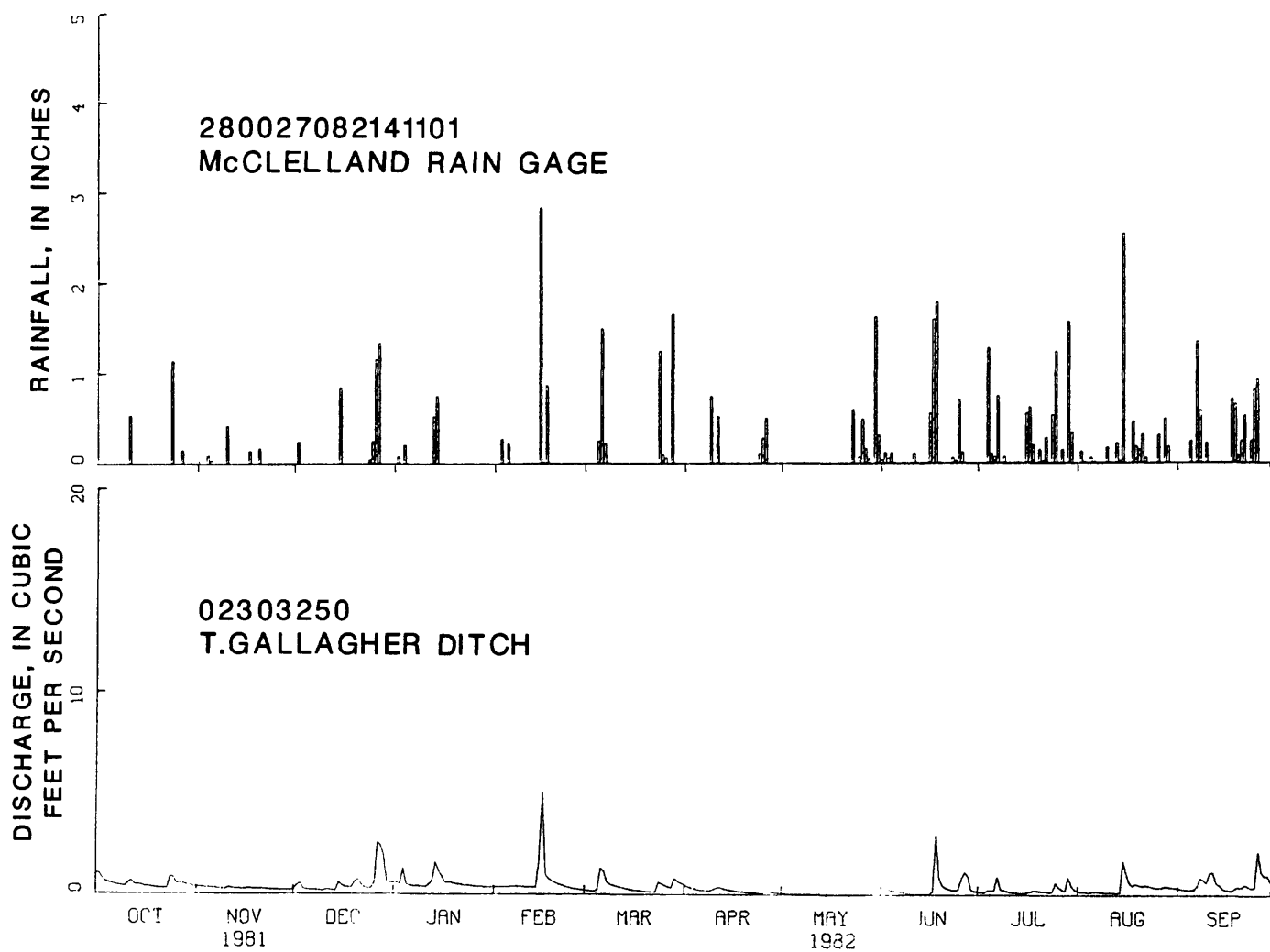


Figure 11.--Daily discharge and rainfall for the T. Gallagher Ditch watershed, 1981-84--Continued.

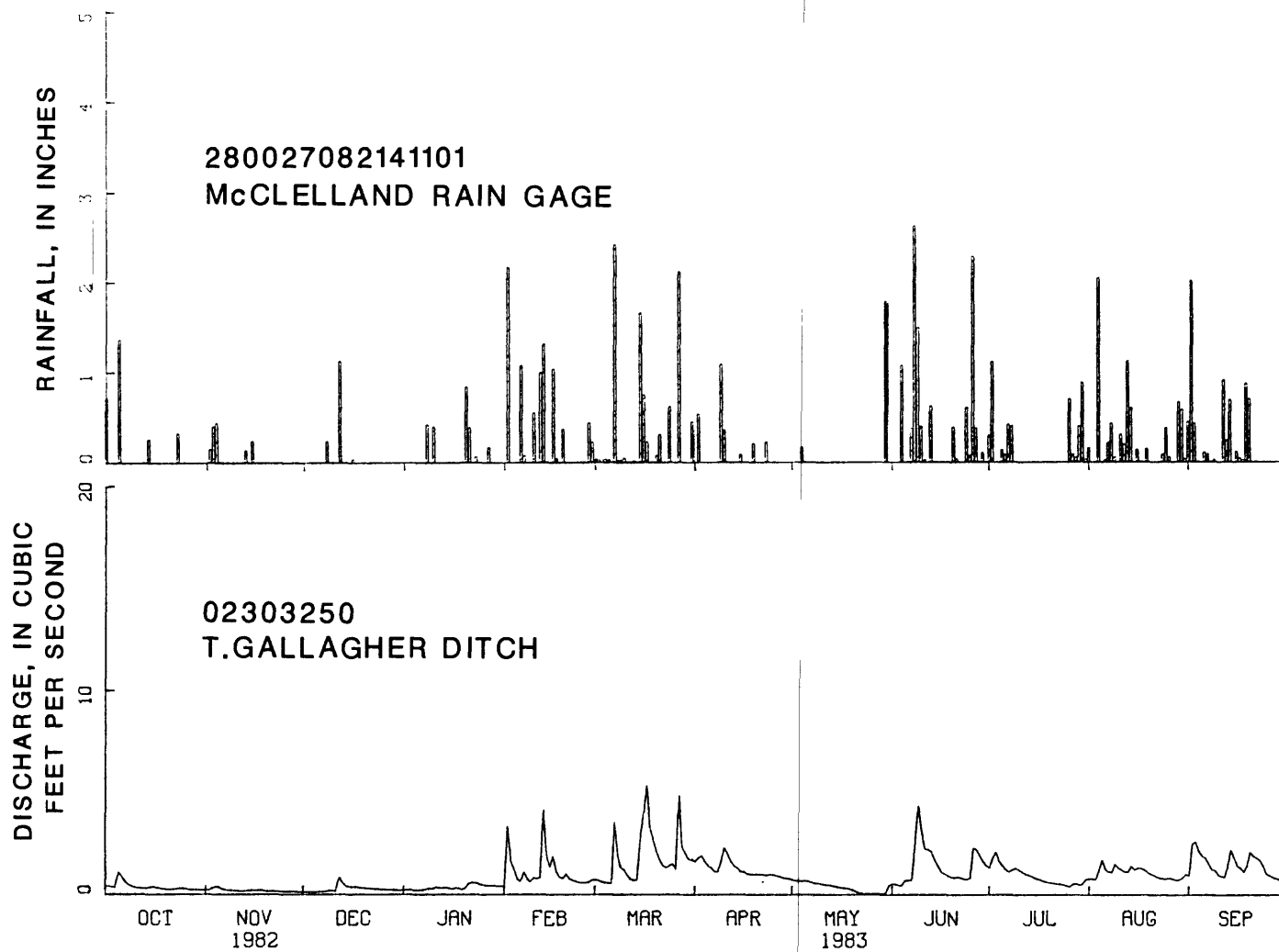


Figure 11.--Daily discharge and rainfall for the T. Gallagher Ditch watershed, 1981-84--Continued.

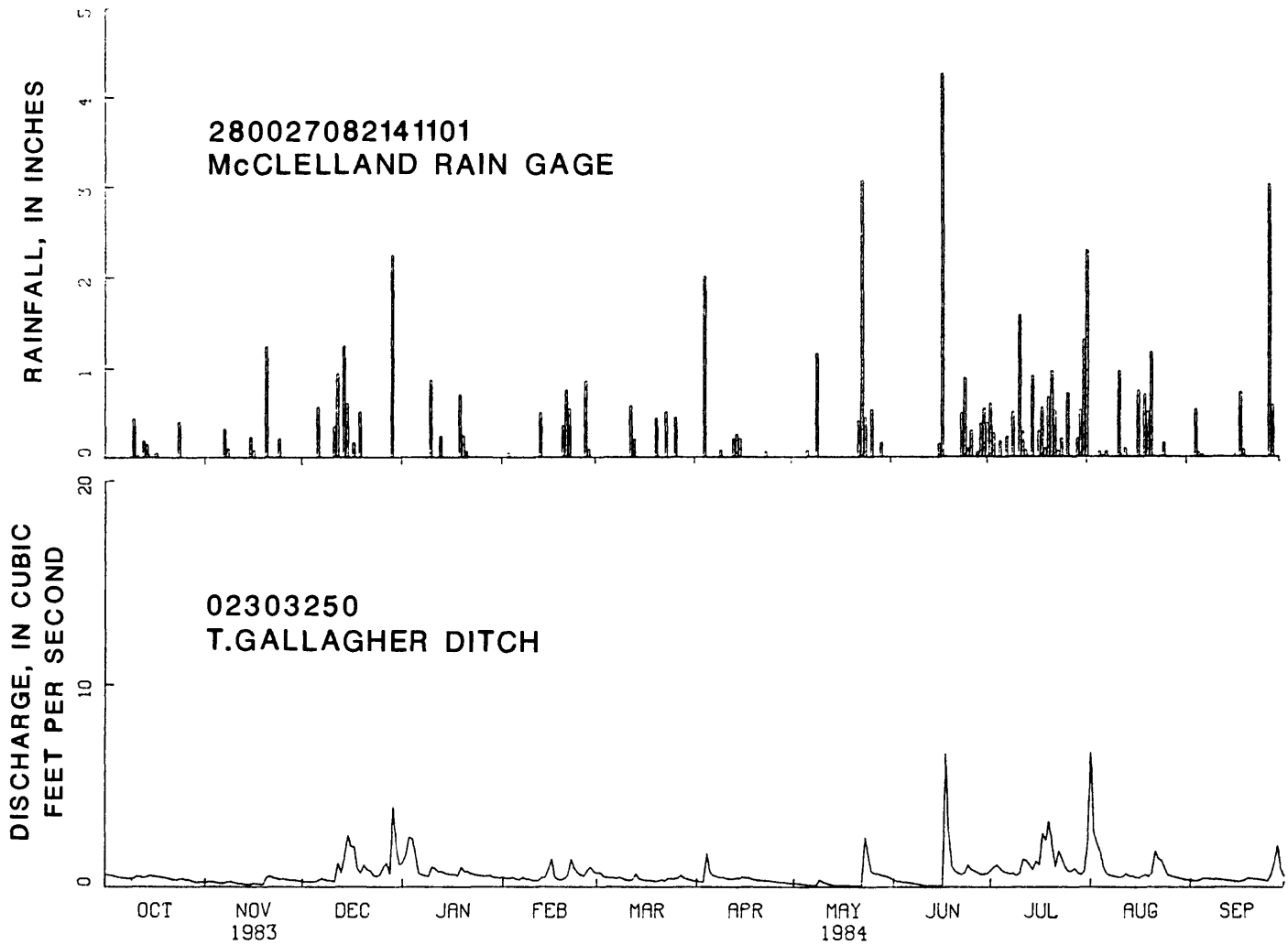


Figure 11.--Daily discharge and rainfall for the T. Gallagher Ditch watershed, 1981-84--Continued.

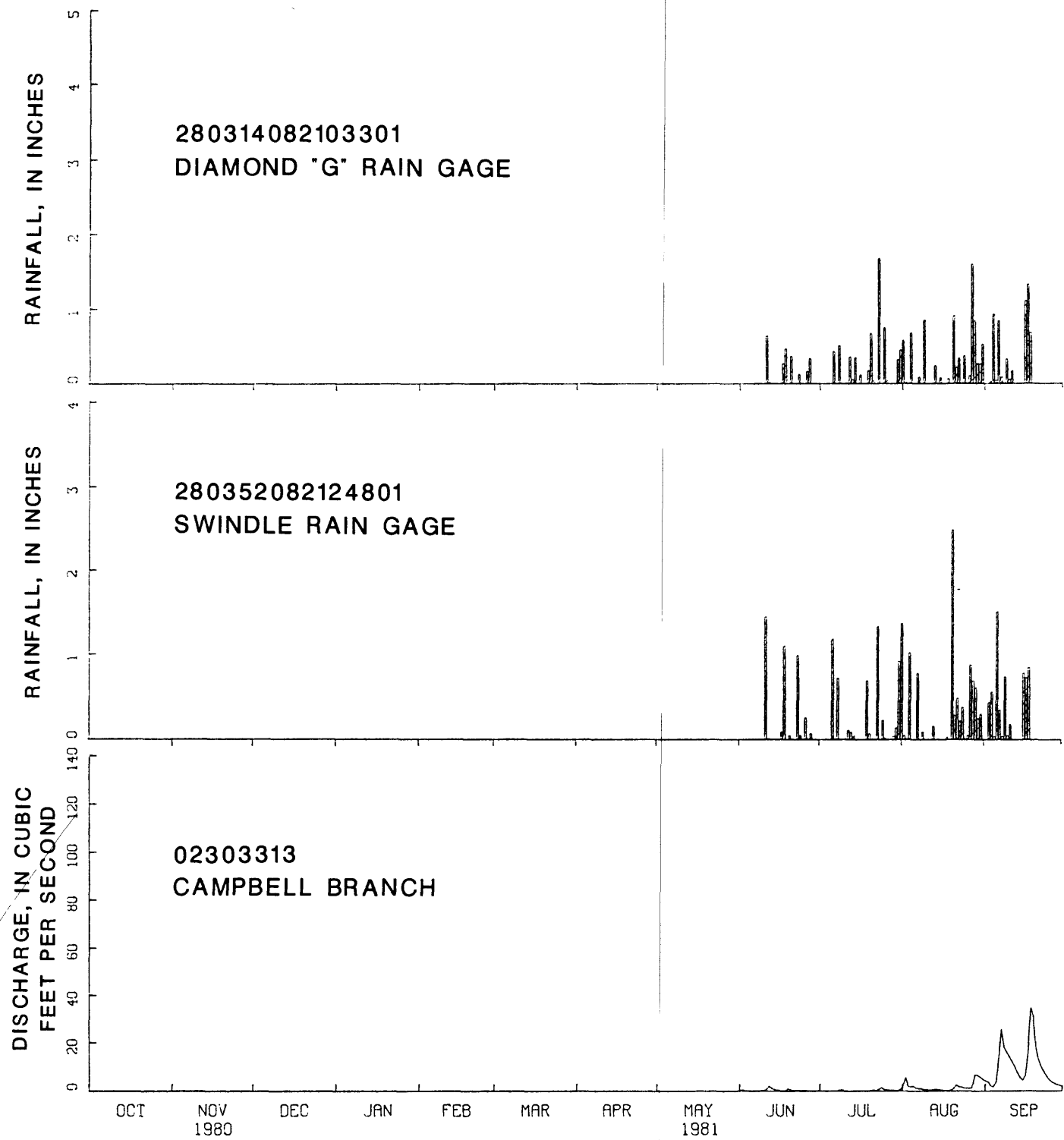


Figure 12.--Daily discharge and rainfall for the Campbell Branch watershed, 1981-84.

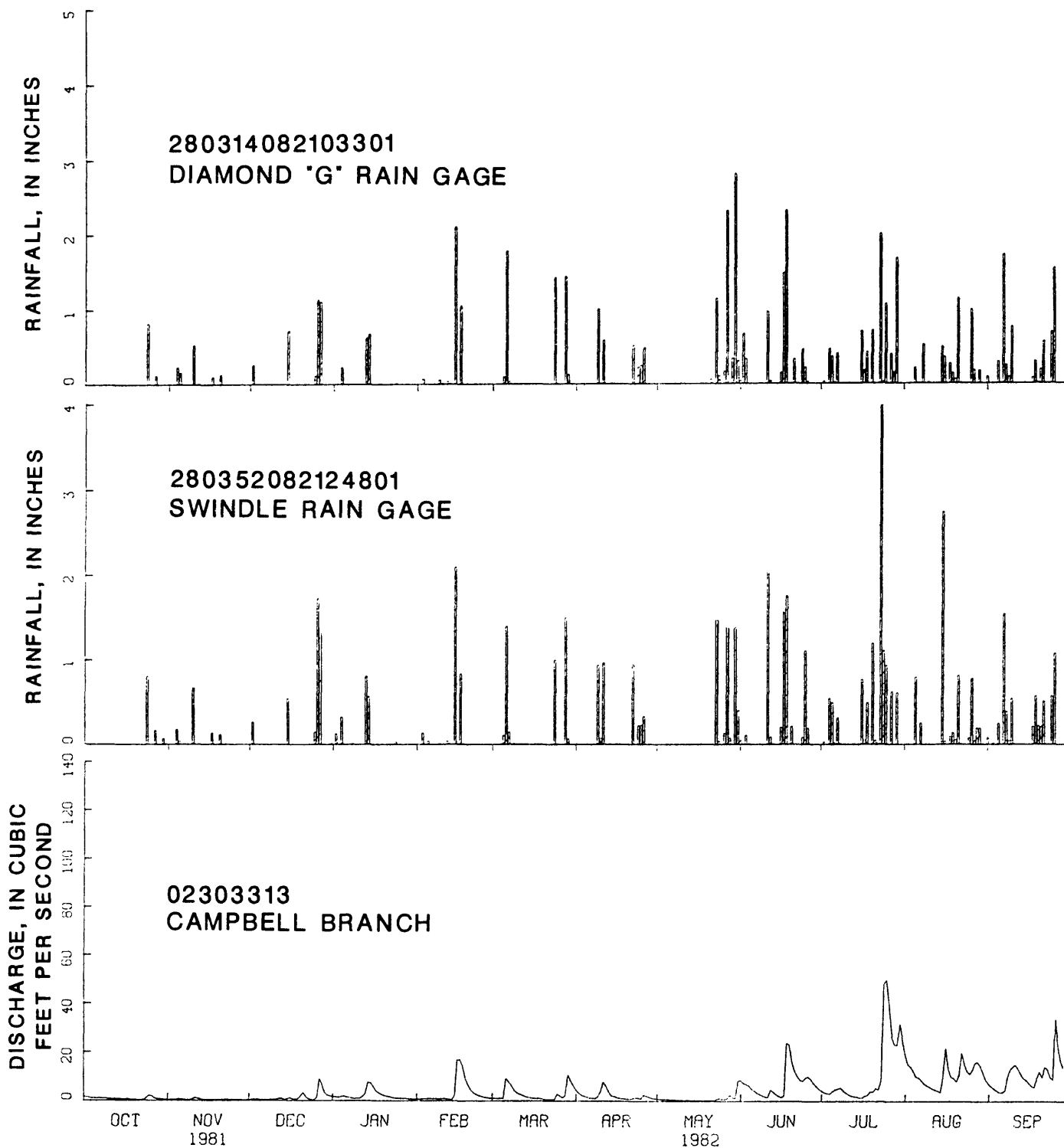


Figure 12.--Daily discharge and rainfall for the Campbell Branch watershed, 1981-84--Continued.

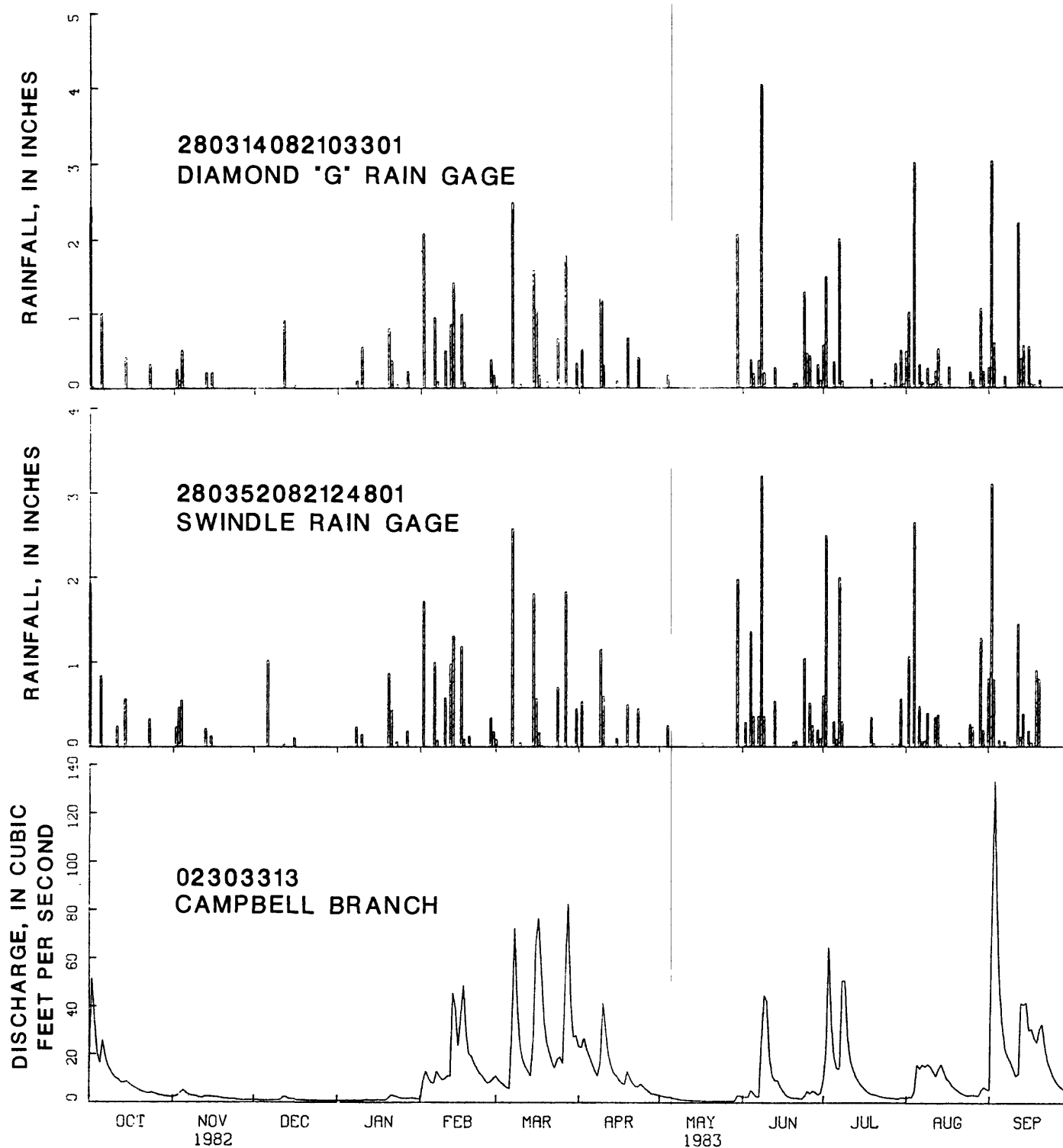


Figure 12.--Daily discharge and rainfall for the Campbell Branch watershed, 1981-84--Continued.

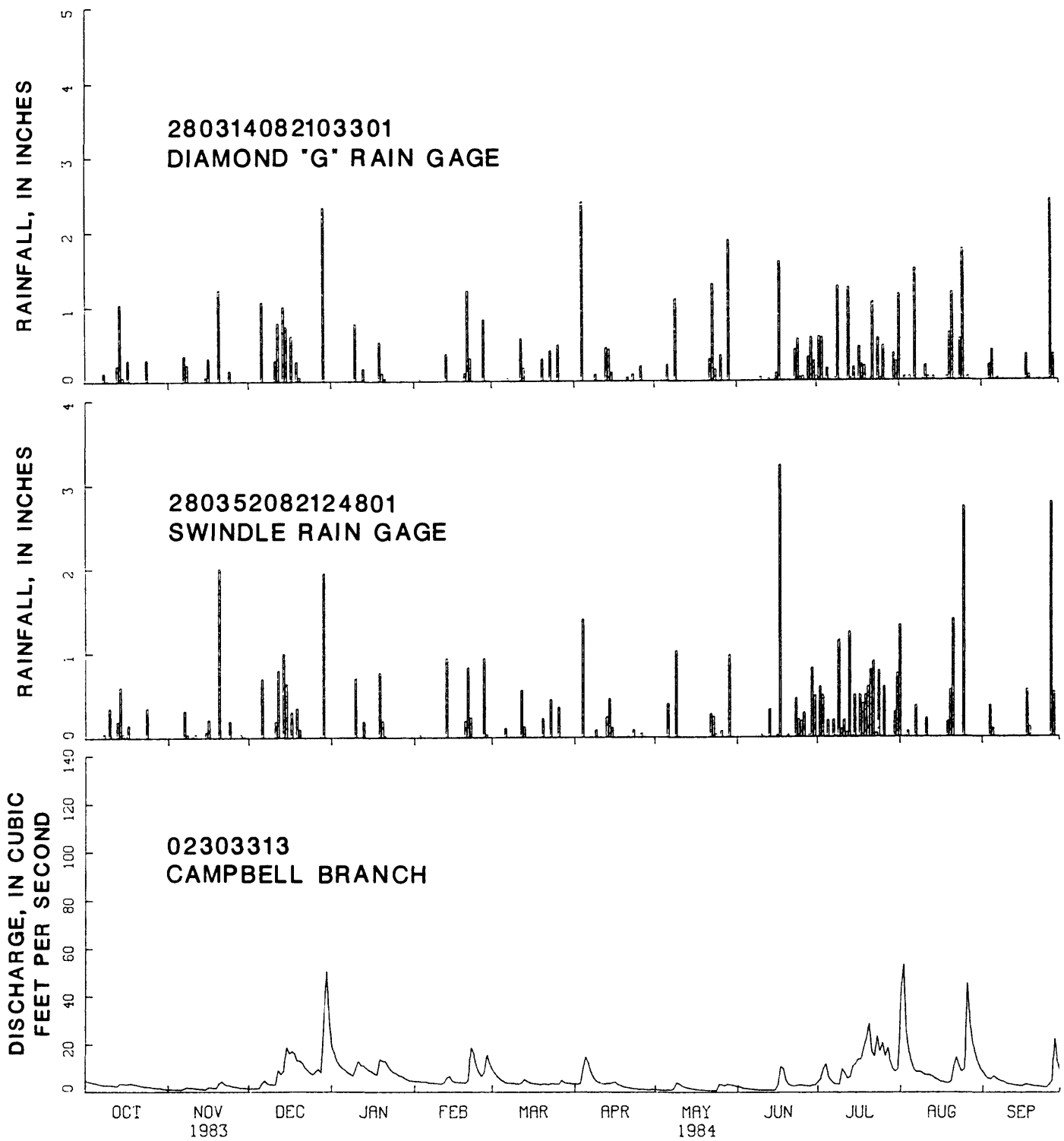


Figure 12.--Daily discharge and rainfall for the Campbell Branch watershed, 1981-84--Continued.

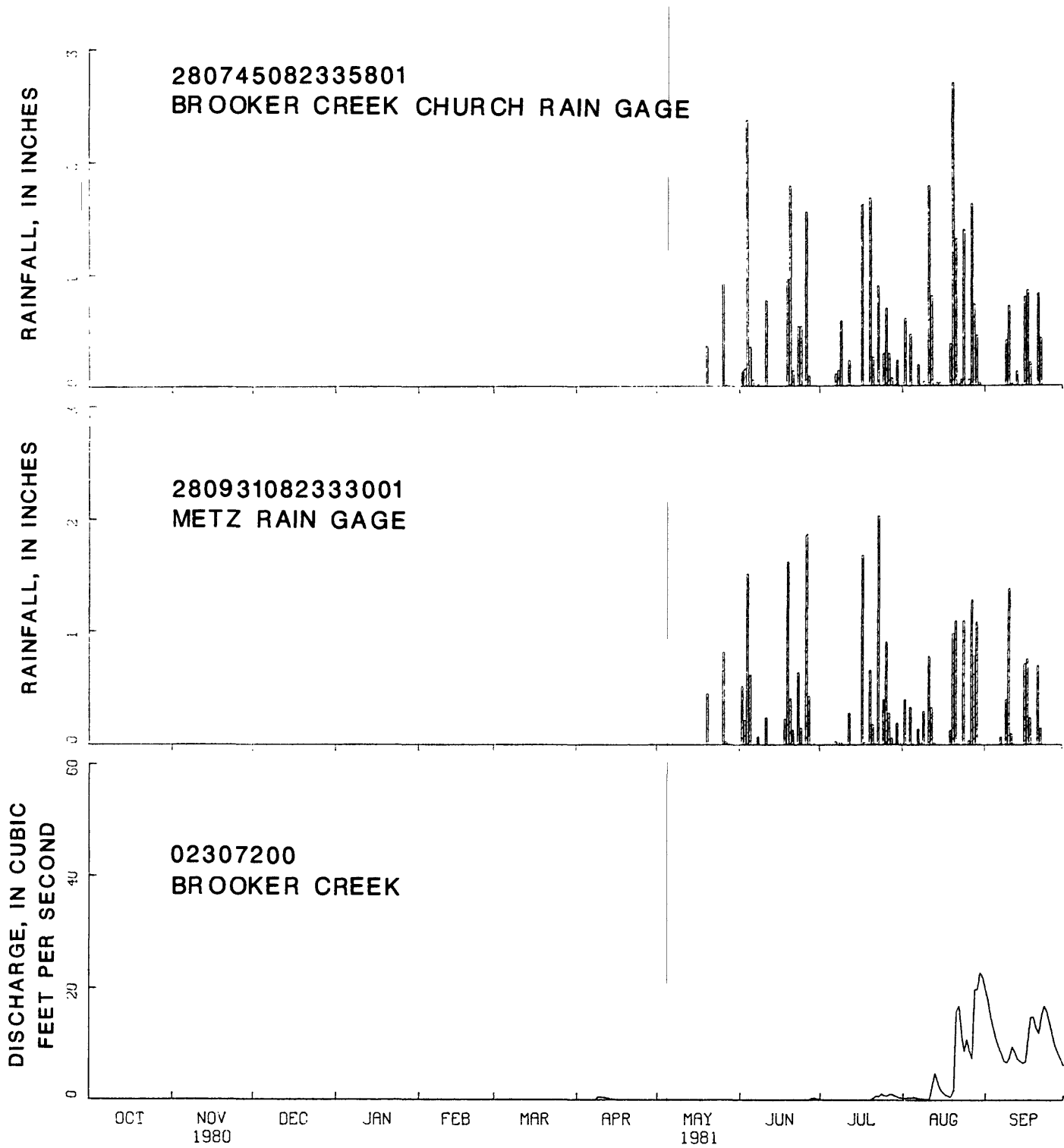


Figure 13.--Daily discharge and rainfall for the Brooker Creek watershed, 1981-84.

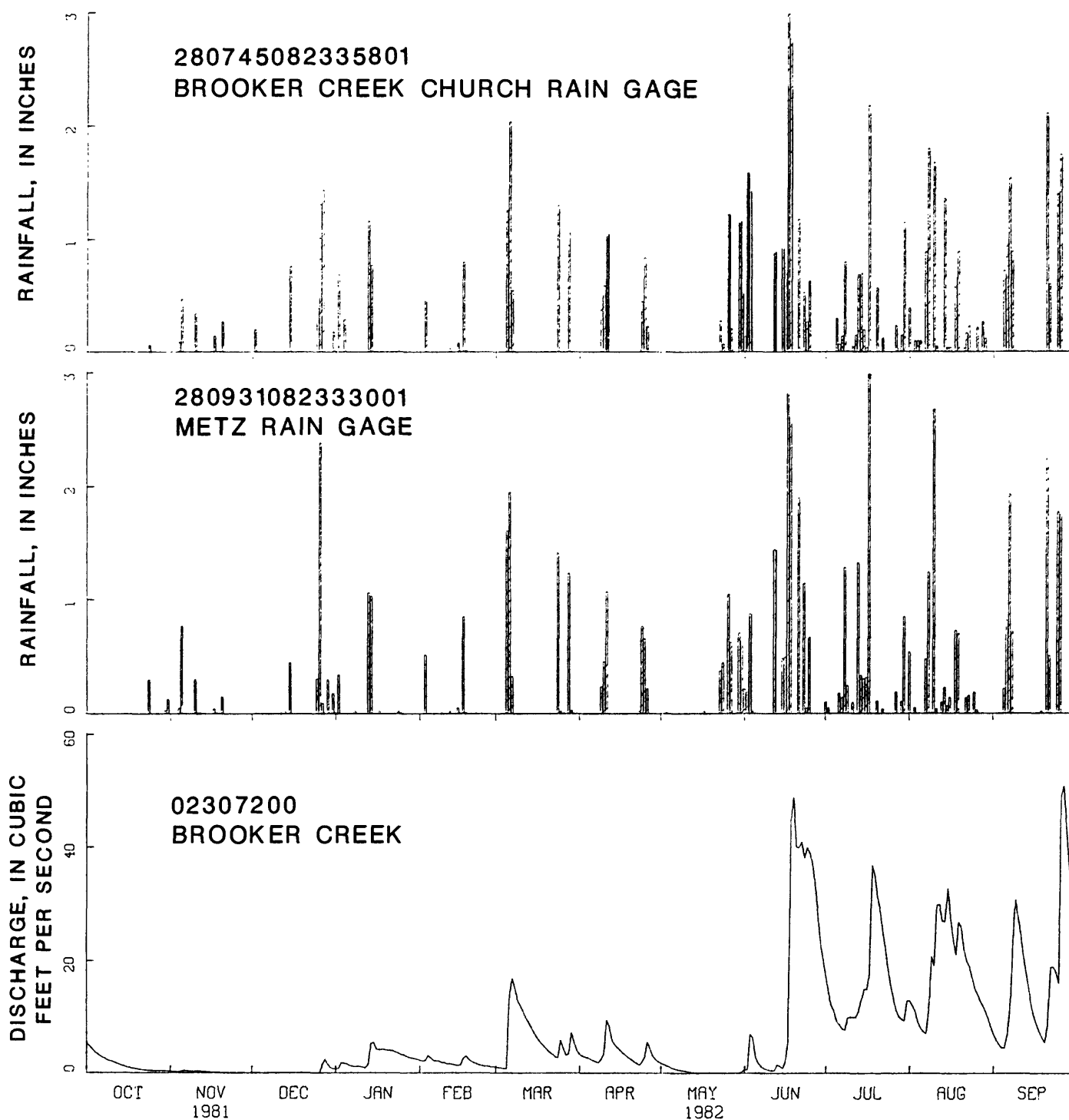


Figure 13.--Daily discharge and rainfall for the Brooker Creek watershed, 1981-84--Continued.

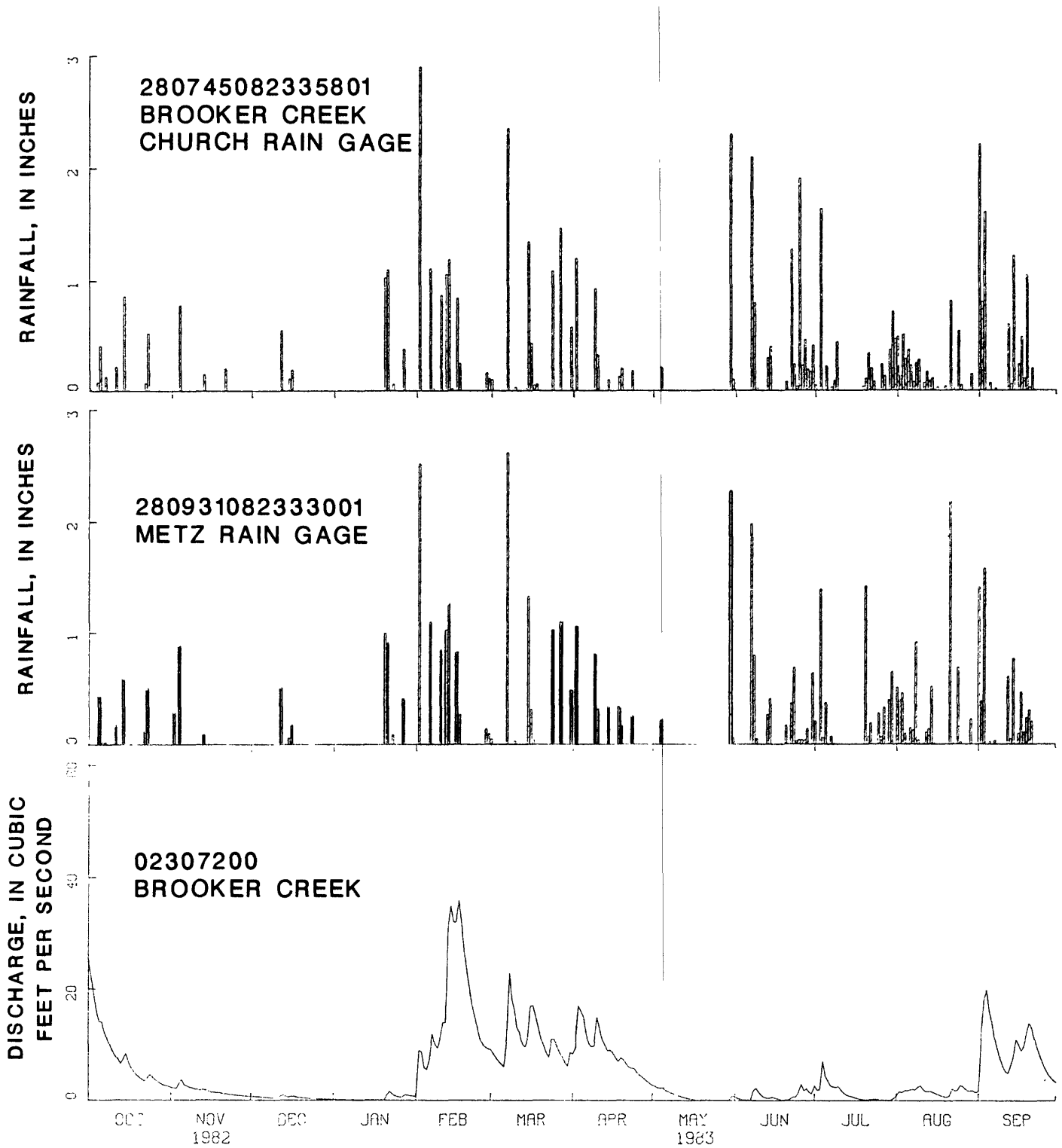


Figure 13.--Daily discharge and rainfall for the Brooker Creek watershed, 1981-84--Continued.

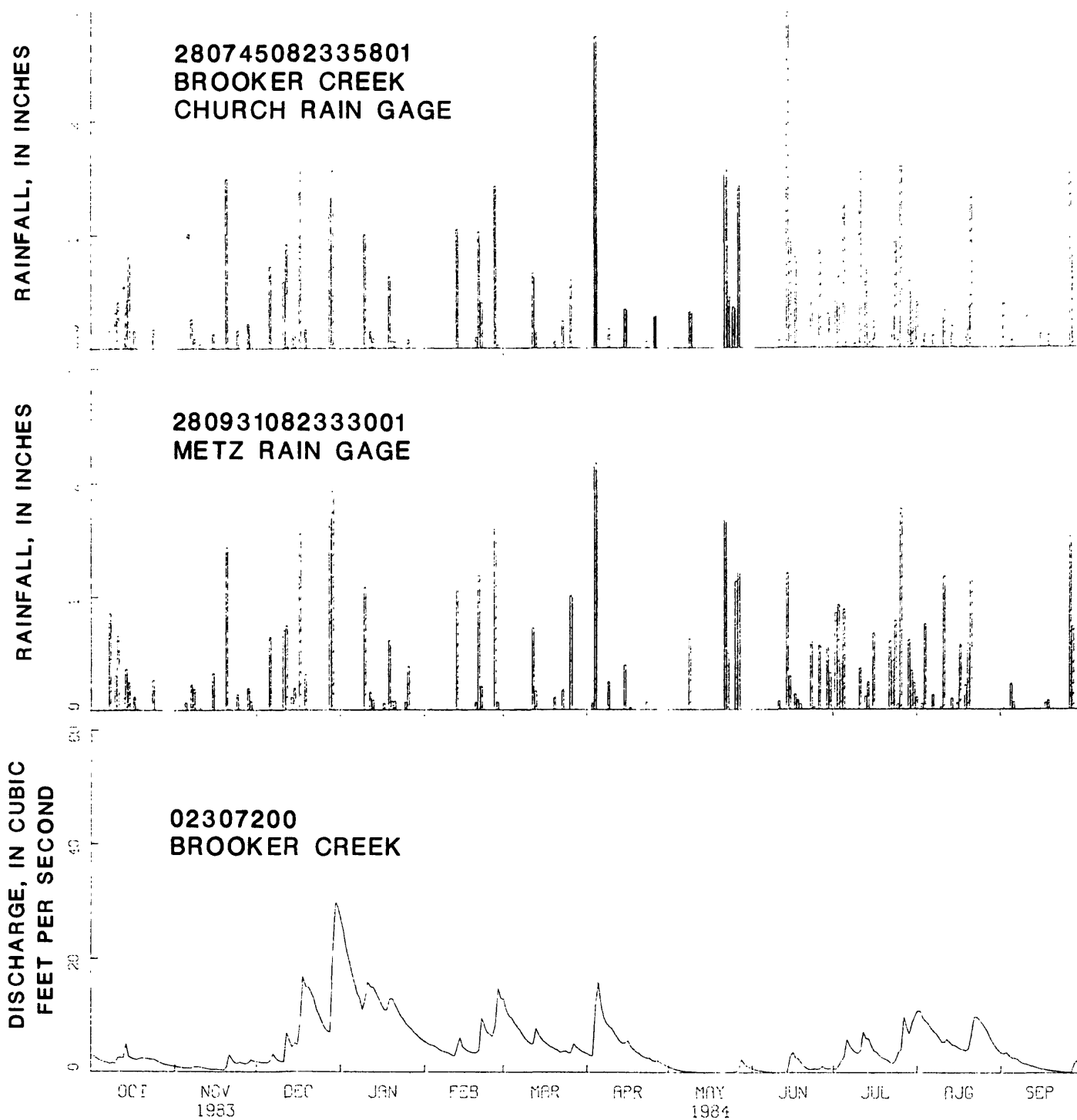


Figure 13.--Daily discharge and rainfall for the Brooker Creek watershed, 1981-84--Continued.

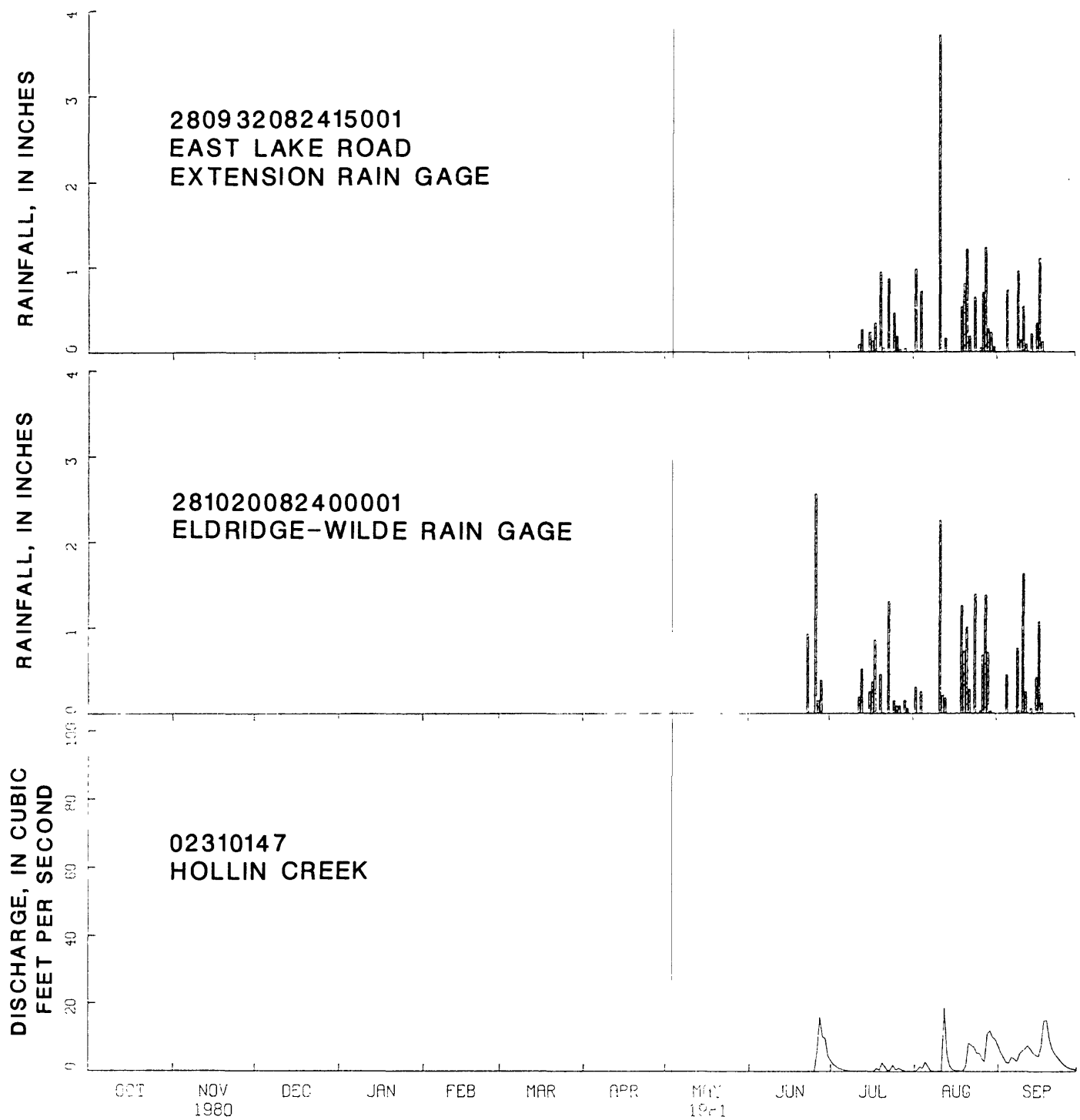


Figure 14.--Daily discharge and rainfall for the Hollin Creek watershed, 1981-84.

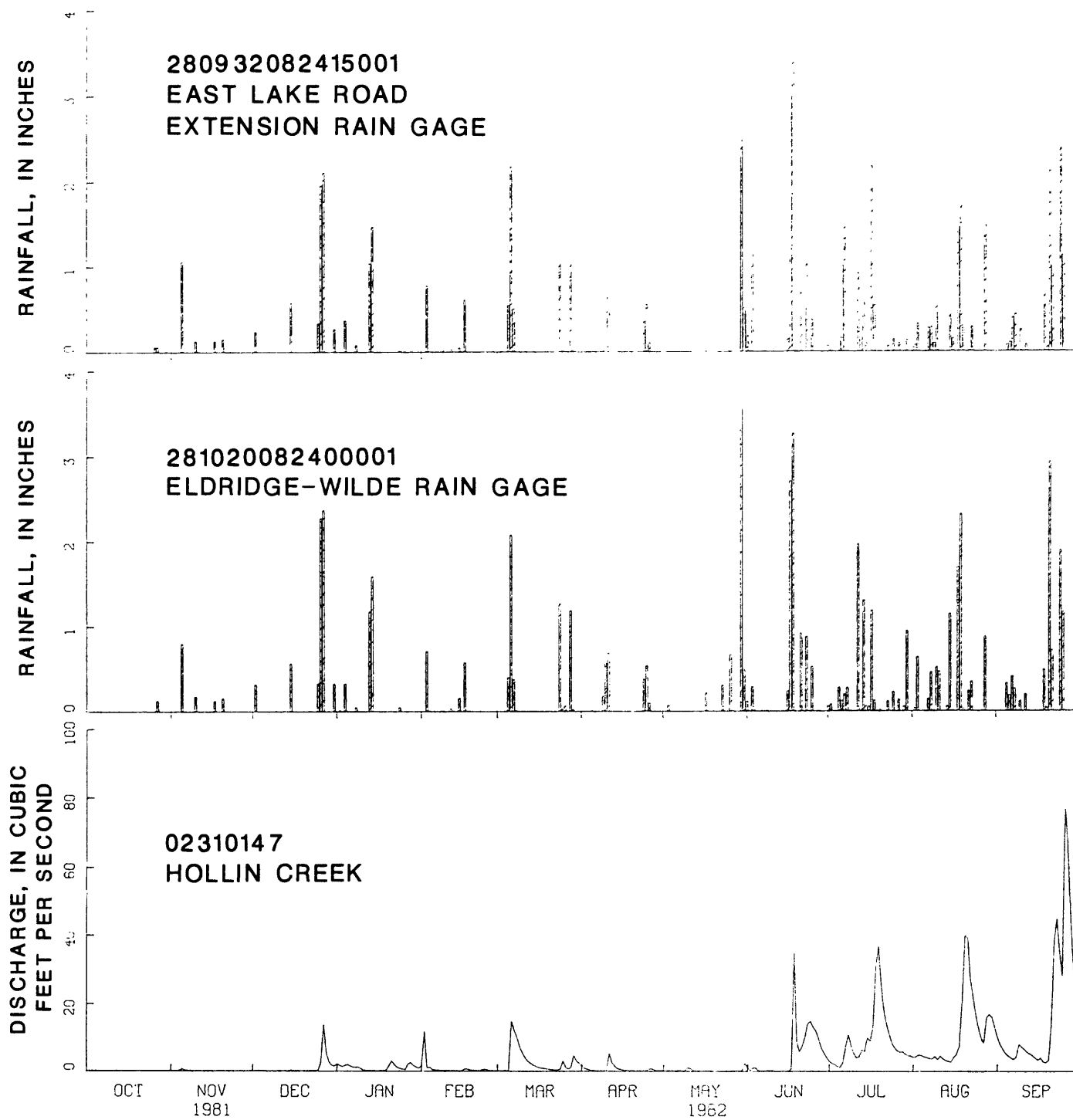


Figure 14.--Daily discharge and rainfall for the Hollin Creek watershed, 1981-84--Continued.

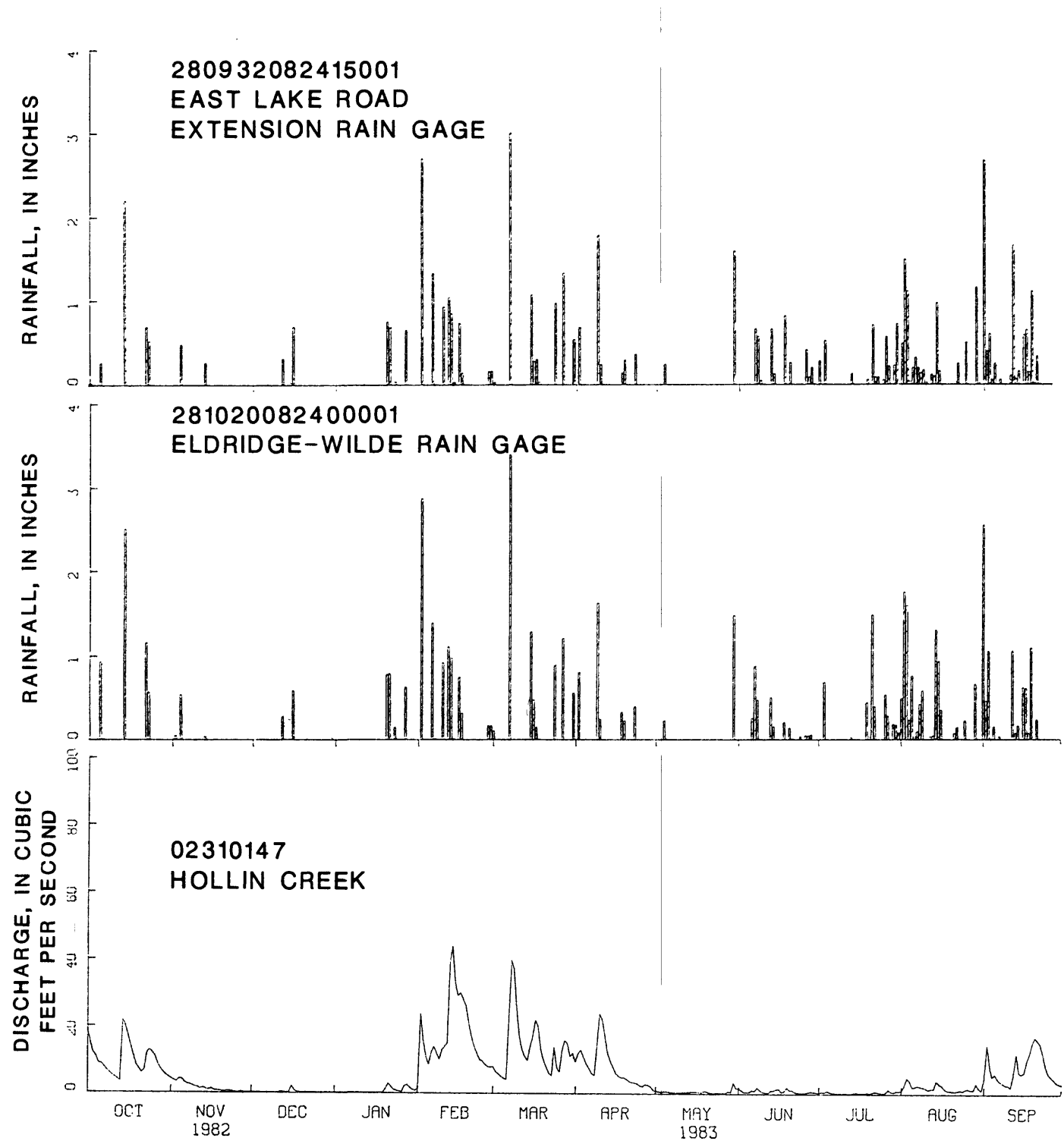


Figure 14.--Daily discharge and rainfall for the Hollin Creek watershed, 1981-84--Continued.

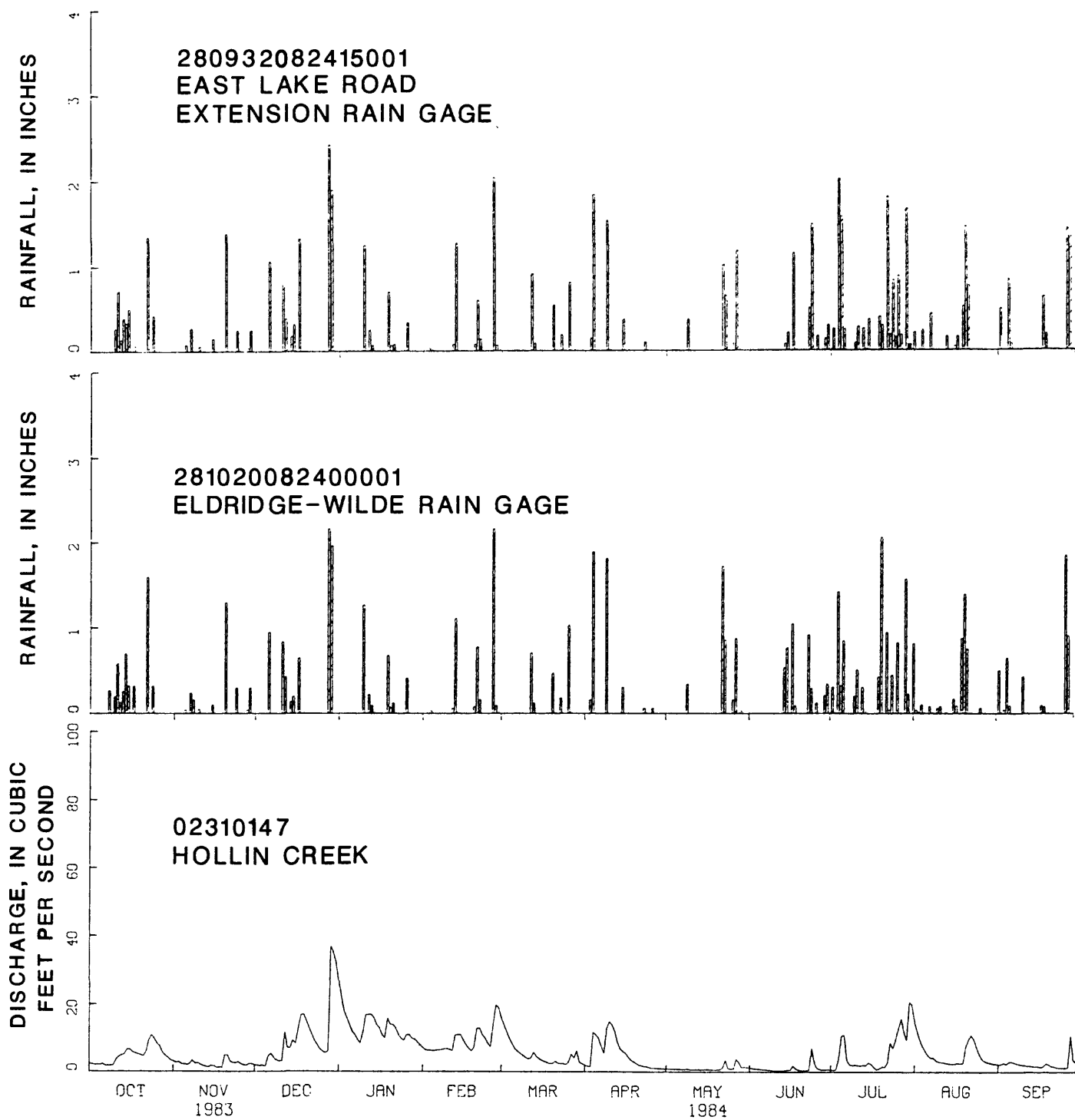


Figure 14.--Daily discharge and rainfall for the Hollin Creek watershed, 1981-84--Continued.

Table 2.--Example of rainfall data retrieved from the unit-values file

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION - TAMPA, FL

272926081524800		DATE: 03-JUN-85 14:49		1984 WTR YR					
NEWCOMB RAIN GAGE NEAR ONA, FL				PUNCH INT- 15					
<TIME>		UNIT RAINFALL, ACCUMULATED (INCHES)							
8/ 5/84 ---	<0015>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0315>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0615>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0915>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1215>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1515>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1815>	0.02	0.44	0.16	0.85	0.25	0.01	0.01	0.03
	<2115>	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00
	<0015>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0315>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/ 6/84 ---	<0615>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0915>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1215>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1515>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1815>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<2115>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0015>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0315>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0615>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0915>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/ 7/84 ---	<1215>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1515>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1815>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<2115>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0015>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0315>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0615>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0915>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1215>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1515>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/ 8/84 ---	<1815>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<2115>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0015>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0315>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0615>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0915>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1215>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1515>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1815>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<2115>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/ 9/84 ---	<0015>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0315>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0615>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0915>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1215>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1515>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1815>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<2115>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0015>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0315>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/10/84 ---	<0615>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0915>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1215>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1515>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<1815>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<2115>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0015>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0315>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0615>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<0915>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 3.--Example of discharge data retrieved from the unit-values file

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION - TAMPA, FL									
02295755		HICKORY CREEK NEAR ONA, FL		DATE: 03-JUN-85 14:50		1984 WTR YR		USE RT 2.0 02/13/83 (1200)	
						PUNCH INT- 15			
<TIME>		UNIT DISCHARGE (CUBIC FEET/SECOND)							
D 8/ 5/84 ---	<0015>	5.5	5.5	5.3	5.3	5.3	5.3	5.3	5.3
	<0315>	5.3	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	<0615>	4.9	4.9	4.9	4.9	4.9	4.7	4.7	4.7
	<0915>	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.4
	<1215>	4.4	4.4	4.4	4.2	4.2	4.2	4.2	4.1
	<1515>	4.1	4.1	3.9	3.9	3.9	3.9	3.9	3.9
	<1815>	4.1	4.1	3.9	3.9	3.9	3.9	3.9	3.9
	<2115>	9.6	9.6	98	100	100	102	102	106
D 8/ 6/84 ---	<0015>	106	106	106	106	106	106	106	104
	<0315>	104	106	110	110	108	106	104	102
	<0615>	100	98	96	95	93	91	87	86
	<0915>	84	84	82	79	77	77	76	74
	<1215>	73	71	71	70	68	67	65	64
	<1515>	61	60	59	59	57	57	55	54
	<1815>	53	53	50	49	49	48	48	47
	<2115>	45	45	44	44	43	43	41	41
D 8/ 7/84 ---	<0015>	40	40	39	39	39	39	37	36
	<0315>	36	36	35	35	35	34	34	33
	<0615>	33	32	32	32	31	31	30	30
	<0915>	29	29	29	29	29	29	29	27
	<1215>	27	27	27	27	27	27	26	26
	<1515>	25	25	25	24	24	24	23	23
	<1815>	23	23	23	23	22	22	22	22
	<2115>	22	21	21	21	21	21	21	21
D 8/ 8/84 ---	<0015>	19	19	19	19	19	19	19	19
	<0315>	19	18	18	18	18	18	18	17
	<0615>	17	17	17	17	17	17	16	16
	<0915>	16	16	15	15	15	15	15	15
	<1215>	15	15	14	14	14	14	14	14
	<1515>	13	13	13	13	13	13	13	13
	<1815>	13	13	12	12	12	12	12	12
	<2115>	12	12	12	12	11	11	11	11
D 8/ 9/84 ---	<0015>	11	11	11	11	11	11	10	10
	<0315>	10	9.8	9.8	9.8	9.8	9.5	9.5	9.5
	<0615>	9.0	9.0	9.0	8.7	8.7	8.7	8.7	8.4
	<0915>	8.4	8.4	8.1	8.1	8.1	7.6	7.6	7.6
	<1215>	7.6	7.6	7.6	7.4	7.4	7.4	7.4	7.2
	<1515>	7.2	7.2	6.9	6.9	6.9	6.9	6.7	6.7
	<1815>	6.7	6.5	6.5	6.5	6.5	6.3	6.3	6.3
	<2115>	6.3	6.0	6.0	6.0	6.0	5.8	5.8	5.8
D 8/ 10/84 ---	<0015>	5.8	5.8	5.6	5.6	5.6	5.6	5.6	5.5
	<0315>	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	<0615>	5.3	5.3	5.3	5.3	5.3	5.1	5.1	5.1
	<0915>	5.1	5.1	5.1	5.1	4.9	4.9	4.9	4.9
	<1215>	4.9	4.9	4.9	4.7	4.7	4.7	4.7	4.7
	<1515>	4.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	<1815>	4.4	4.4	4.4	4.4	4.2	4.2	4.2	4.2
	<2115>	4.1	4.1	4.1	4.1	4.1	3.9	3.9	3.9

(D - ONE OR MORE UNIT VALUES FOR DAY HAVE BEEN DATUM CORRECTED)

REFERENCES

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- Seijo, M. A., Giovannelli, R. F., and Turner, J. F., Jr., 1979, Regional flood-frequency relations for west-central Florida: U.S. Geological Survey Water-Resources Investigations Open-File Report 79-1293, 41 p.

APPENDIXES

Abbreviations

The following abbreviations are used in Appendixes 1 through 6.

AC-FT	= acre-foot
CAL YR	= calendar year
CFSM	= cubic foot per second per square mile
ft	= foot
ft ³ /s	= cubic foot per second
IN.	= runoff in inches
in	= rainfall in inches
lat	= latitude
long	= longitude
MAX	= maximum
mi	= mile
mi ²	= square mile
MIN	= minimum
USGS	= U.S. Geological Survey
WTR YR	= water year

Appendix 1.--Hydrologic Data for Hickory Creek Watershed

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02295755 HICKORY CREEK NEAR ONA, FL

LOCATION.--Lat 27°28'54", long 81°52'50", in NE1/4 sec.35, T.34 S., R.24 E., Hardee County, Hydrologic Unit 03100101, at center on downstream side of culvert on State Highway 64, 2.4 mi east of Ona, and 4.5 mi upstream from mouth.

DRAINAGE AREA.--3.75 mi².

PERIOD OF RECORD.--February 1982 to September 1984. Continued.

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

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Feb. 12 to Sept. 30, 1982: Maximum discharge, 727 ft³/s June 18, gage height, 15.33 ft; no flow for many days; minimum gage height, 10.25 ft Feb. 16, 17.

Water Year 1983: Maximum discharge, 314 ft³/s Oct. 6, gage height, 14.75 ft; no flow for many days; minimum gage height, 10.72 ft May 30.

Water Year 1984: Maximum discharge, 148 ft³/s, Aug. 23, gage height, 14.22 ft; no flow for many days; minimum gage height 10.94 ft May 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	.00	1.7	2.3	35	7.2	1.6	.30
2					---	.00	1.2	1.8	80	5.1	1.2	.20
3					---	.00	.82	1.3	41	3.4	.95	.11
4					---	.00	.51	1.0	21	2.5	.69	.06
5					---	.00	.31	.75	14	1.8	.46	.03
6					---	1.1	.19	.50	9.3	1.7	.34	.00
7					---	.96	.08	.32	6.5	2.0	.27	.00
8					---	.68	.04	.17	4.6	1.9	.18	.18
9					---	.40	.12	.10	3.4	1.4	.08	.34
10					---	.33	2.4	.04	2.6	2.8	.04	.37
11					---	.27	3.6	.00	2.1	2.0	.12	.34
12					.00	.36	2.9	.00	1.8	1.2	.89	.28
13					.00	.31	1.8	.00	1.5	1.0	4.9	.19
14					.00	.23	1.3	.00	1.2	.99	4.3	.09
15					.00	.14	.91	.00	.94	.82	2.7	.04
16					.00	.07	.56	.00	.78	.60	4.1	.00
17					.00	.05	.38	.00	38	.54	11	.00
18					.00	.03	.27	.00	490	.43	13	.00
19					.00	.00	.16	.00	147	.32	17	.00
20					.00	.00	.07	.00	79	.29	16	.69
21					.04	.00	.02	.00	87	.25	14	21
22					.08	.00	.00	.00	48	.20	9.0	161
23					.04	.00	.00	.01	26	6.5	6.4	110
24					.01	.00	.10	.05	23	14	4.2	46
25					.00	.00	.31	.75	42	3.0	2.7	25
26					.00	.00	1.3	1.7	59	1.5	1.8	62
27					.00	.00	1.8	9.9	77	2.2	1.3	62
28					.00	.10	1.6	26	30	6.3	.97	34
29					---	3.2	1.3	20	16	5.7	.68	19
30					---	3.1	2.2	24	11	3.2	.46	13
31					---	2.4	---	58	---	2.2	.35	---
TOTAL					---	13.73	27.95	148.69	1398.72	83.04	121.68	556.22
MEAN					---	.44	.93	4.80	46.6	2.68	3.93	18.5
MAX					---	3.2	3.6	58	490	14	17	161
MIN					---	.00	.00	.00	.78	.20	.04	.00
CFSM					---	.12	.25	1.28	12.4	.72	1.05	4.93
IN.					---	.14	.28	1.47	13.87	.82	1.21	5.52
AC-FT					---	27	55	295	2770	165	241	1100
DAYS	0	0	0	0	17	31	30	31	30	31	31	30

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02295755 HICKORY CREEK NEAR ONA, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	5.5	.24	.00	.00	.45	19	7.2	.00	.00	.25	.31	5.8				
2	6.0	.47	.00	.00	2.2	12	5.0	.00	.00	1.1	.40	20				
3	4.5	1.2	.00	.00	4.4	7.3	3.7	.00	.00	4.3	.33	21				
4	3.3	1.4	.00	.00	3.3	4.8	2.8	.00	.00	2.9	.20	14				
5	42	1.8	.00	.00	2.6	3.3	2.1	.00	.00	1.6	.11	9.6				
6	208	1.5	.00	.00	3.5	2.6	1.6	.00	.00	.79	.27	6.9				
7	70	1.2	.00	.00	14	8.4	1.1	.00	.00	6.2	.73	5.5				
8	34	.98	.00	.00	9.9	53	.74	.00	.08	59	1.1	4.6				
9	21	.83	.00	.00	6.8	28	.74	.00	.42	34	1.5	3.3				
10	13	.68	.00	.00	4.8	15	24	.00	.28	18	1.7	2.5				
11	9.2	.57	.00	.00	4.5	8.9	20	.00	.10	11	2.9	1.8				
12	6.4	.46	.00	.00	3.9	5.7	12	.00	.05	7.4	10	1.4				
13	4.7	.39	.00	.00	50	3.8	7.6	.00	.02	4.8	6.8	13				
14	3.4	.32	.00	.00	34	2.8	4.7	.00	.00	3.0	5.0	22				
15	2.6	.25	.00	.00	18	3.6	3.0	.00	.00	1.9	3.8	9.1				
16	1.8	.20	.00	.00	29	9.1	2.3	.00	.00	1.1	3.2	9.4				
17	1.4	.18	.00	.00	37	41	1.5	.00	.00	.56	2.5	7.5				
18	1.1	.17	.00	.00	21	35	.94	.00	.00	.27	1.8	7.0				
19	.88	.10	.00	.00	11	21	.63	.00	.00	.23	1.6	18				
20	.70	.05	.00	.20	8.0	12	.39	.00	.00	.18	1.9	17				
21	.52	.02	.00	1.0	5.3	9.9	.22	.00	.00	.11	1.2	12				
22	.42	.00	.00	2.0	3.8	7.9	.14	.00	.00	.08	.86	8.7				
23	.49	.00	.00	1.9	3.3	5.5	.14	.00	.00	.06	.91	6.5				
24	.96	.00	.00	1.5	2.5	52	.31	.00	.23	.04	2.3	4.8				
25	.93	.00	.00	1.2	1.8	39	.19	.00	.67	.01	6.7	3.4				
26	.78	.00	.00	.98	1.3	21	.09	.00	.50	.00	11	2.5				
27	.59	.00	.00	.87	16	26	.05	.00	.30	.00	6.3	1.9				
28	.48	.00	.00	.88	25	56	.01	.00	.21	.01	3.8	1.3				
29	.39	.00	.00	.76	---	29	.00	.00	.62	.00	12	.89				
30	.33	.00	.00	.62	---	15	.00	.00	.52	.04	11	.56				
31	.27	---	.00	.52	---	10	---	.00	---	.17	7.6	---				
TOTAL	448.64	13.01	.00	12.43	327.35	567.6	103.19	.00	4.00	159.10	109.82	241.95				
MEAN	14.5	.43	.000	.40	11.7	18.3	3.44	.000	.13	5.13	3.54	8.07				
MAX	208	1.8	.00	2.0	50	56	24	.00	.67	59	12	22				
MIN	.27	.00	.00	.00	.45	2.6	.00	.00	.00	.00	.11	.56				
CFSM	3.87	.12	.000	.11	3.12	4.88	.92	.000	.04	1.37	.94	2.15				
IN.	4.45	.13	.00	.12	3.25	5.63	1.02	.00	.04	1.58	1.09	2.40				
AC-FT	890	26	.00	25	649	1130	205	.00	7.9	316	218	480				
DAYS	31	30	31	31	28	31	30	31	30	31	31	30				
WTR YR 1983	TOTAL	1987.09	MEAN	5.44	MAX	208	MIN	.00	CFSM	1.45	IN	19.71	AC-FT	3940	DAYS	365

PEACE, WITHLACOOCHIEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

PEACE RIVER BASIN

02295755 HICKORY CREEK NEAR ONA, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	.32	.04	.29	4.0	.03	2.6	.18	.00	.00	.00	.22	1.2				
2	.18	.00	.25	2.9	.01	2.0	.10	.00	.00	.00	.17	.79				
3	.12	.00	.20	2.4	.00	1.6	.06	.00	.00	.00	.39	.41				
4	.08	.00	.13	1.8	.00	1.1	.08	.00	.00	.00	4.5	.70				
5	.07	.00	.07	1.4	.00	.77	.10	.00	.00	.03	24	5.1				
6	.05	.00	.05	1.1	.00	.51	.08	.00	.00	.70	75	13				
7	.03	.01	.06	.85	.00	.37	.04	.00	.00	.66	28	6.3				
8	.00	.36	.04	.60	.00	.24	.01	.00	.00	.32	15	3.4				
9	.00	.56	.02	.43	.00	.15	.05	.00	.00	.10	8.0	2.1				
10	.00	.53	.00	.55	.00	.09	.12	.00	.00	.01	4.9	1.3				
11	.00	.38	.00	.97	.00	.06	.11	.00	.00	.00	3.4	.77				
12	.00	.29	.98	.86	.00	.16	.08	.00	.00	.00	3.0	.35				
13	.00	.20	1.1	.68	.30	8.8	.04	.00	.00	.00	2.3	.17				
14	.00	.14	.88	.62	.00	7.8	.14	.00	.00	.00	15	.12				
15	.00	.09	5.1	.50	.00	4.7	.59	.00	.00	.10	19	.09				
16	.02	.06	5.5	.43	.01	3.1	1.2	.00	.00	.45	11	.06				
17	.01	.04	4.0	.37	.00	2.2	1.1	.00	.00	.40	6.4	.05				
18	.00	.01	5.3	.33	.00	1.6	.84	.00	.00	.21	4.1	.03				
19	.00	.00	4.1	.36	.00	1.1	.49	.00	.00	.11	2.7	.01				
20	.00	.08	3.1	.42	.00	.77	.27	.00	.00	.62	2.1	.00				
21	.00	.27	2.5	.51	.00	.95	.11	.00	.00	8.8	9.2	.00				
22	.00	.29	2.1	.41	.45	.63	.06	.00	.00	5.3	34	.00				
23	.00	.25	1.7	.33	2.1	1.2	.12	.00	.00	3.2	52	.00				
24	.95	.19	1.4	.27	2.3	2.8	.16	.00	.00	2.8	93	.00				
25	3.1	.41	.95	.22	1.9	2.6	.10	.00	.00	2.1	35	.00				
26	1.9	.26	.63	.18	1.4	2.0	.06	.00	.00	2.1	18	.00				
27	.85	.19	.50	.14	1.6	1.5	.03	.00	.00	1.9	9.4	.00				
28	.39	.14	.50	.12	3.9	1.1	.00	.00	.00	1.3	5.8	.01				
29	.19	.08	2.3	.09	3.4	.82	.00	.00	.00	.74	3.9	.00				
30	.11	.10	8.8	.07	---	.52	.00	.00	.00	.46	2.7	.00				
31	.07	---	5.7	.05	---	.31	---	.00	---	.32	1.9	---				
TOTAL	8.44	4.97	58.25	23.96	17.10	54.15	6.32	.00	.00	32.73	494.08	35.96				
MEAN	.27	.17	1.88	.77	.59	1.75	.21	.000	.000	1.06	15.9	1.20				
MAX	3.1	.56	8.8	4.0	3.9	8.8	1.2	.00	.00	9.8	93	13				
MIN	.00	.00	.00	.05	.00	.06	.00	.00	.00	.00	.17	.00				
CFSM	.07	.05	.50	.21	.16	.47	.06	.000	.000	.28	4.24	.32				
IN.	.08	.05	.58	.24	.17	.54	.06	.00	.00	.32	4.90	.36				
AC-FT	17	9.9	116	48	34	107	13	.00	.00	65	980	71				
DAYS	31	30	31	31	29	31	30	31	30	31	31	30				
CAL YR 1983	TCTAL	1597.10	MEAN	4.38	MAX	59	MIN	.00	CFSM	1.17	IN	15.84	AC-FT	3170	DAYS	365
WTR YR 1984	TCTAL	735.96	MEAN	2.01	MAX	93	MIN	.00	CFSM	.54	IN	7.30	AC-FT	1460	DAYS	366

272926081524800 NEWCOMB RAIN GAGE NEAR ONA, FL

LOCATION.--Lat 27°29'26", long 81°52'48", in SE1/4 sec.26, T.34 S., R.24 E., Hardee County, in Hickory Creek watershed, near private residence, 0.6 mi north of State Highway 64, and 2.5 mi northeast of Ona.

PERIOD OF RECORD.--February 1982 to September 1984 (daily totals and 15-minute interval unit values). Continued.

GAGE.--Digital recorder with 8-inch diameter receiving funnel and 3-inch diameter collector pipe.

EXTREMES FOR PERIOD OF RECORD.--Feb. 12 to Sept. 30, 1982: Maximum 15-minute rainfall, 1.04 in May 30 (1830 hours).

Water Year 1983: Maximum 15-minute rainfall, 0.94 in Mar. 24 (0600 hours).

Water Year 1984: Maximum 15-minute rainfall, 0.92 in July 20 (1845 hours).

REMARKS.--No unit values of rainfall Mar. 5,6, July 8 to Aug. 3, 1982, Mar. 11-21, Apr. 4-19, 26-30, May 1-12, 16-19, 1983; daily totals estimated.

DAY	RAINFALL, ACCUMULATED (INCHES)				WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982							
	SUM				VALUES							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	.00	.00	.00	1.13	.01	.00	.00
2					---	.00	.00	.00	.08	.00	.10	.00
3					---	.00	.00	.00	.00	.00	.10	.00
4					---	.01	.00	.01	.09	.00	.00	.00
5					---	.10	.00	.00	.00	.00	.00	.03
6					---	1.50	.00	.00	.00	.71	.00	.00
7					---	.00	.00	.00	.00	.15	.00	.02
8					---	.00	.00	.00	.00	.10	.00	1.12
9					---	.00	1.22	.00	.00	.10	.00	.08
10					---	.00	.37	.00	.00	.30	.00	.00
11					---	.37	.46	.00	.06	.00	1.39	.00
12					.00	.01	.00	.00	.01	.10	.59	.00
13					.00	.00	.00	.00	.00	.10	.00	.00
14					.00	.00	.00	.00	.00	.10	.02	.00
15					.01	.00	.00	.00	.02	.00	.19	.00
16					.00	.00	.00	.10	.07	.06	.33	.00
17					1.12	.00	.00	.01	5.98	.00	.56	.01
18					.00	.00	.00	.00	1.92	.00	.29	.03
19					.00	.00	.00	.00	.30	.00	.49	.37
20					.00	.00	.00	.00	1.63	.10	.28	1.66
21					.00	.00	.00	.00	.58	.00	.00	1.71
22					.00	.00	.00	.38	.04	.10	.19	1.57
23					.00	.00	.00	1.12	.04	2.00	.00	.01
24					.00	.11	.93	1.48	.77	.40	.00	.00
25					.00	.19	.06	.60	.84	.10	.00	.01
26					.00	.00	.85	.72	1.09	.20	.00	1.45
27					.00	.00	.11	.98	.01	.60	.00	.00
28					.01	2.19	.00	.06	.04	.30	.00	.00
29					---	.48	.61	.10	.01	.10	.00	.00
30					---	.01	.01	2.27	.00	.10	.00	.00
31					---	.00	---	.12	---	.10	.22	---
TOTAL					---	4.97	4.62	7.95	14.71	5.83	4.75	8.07

272926081524800 NEWCOMB RAIN GAGE NEAR ONA, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	.00	.00	.10	1.21	1.81	.00	.00	.46	.14	.73
2	.00	.86	.00	.00	1.11	.90	.13	.00	.00	1.24	.01	.41
3	.00	.04	.00	.00	.00	.01	.10	.00	1.38	.02	.05	.03
4	.07	.19	.00	.09	.00	.05	.00	.00	.02	.00	.04	.16
5	3.31	.02	.00	.04	.00	.00	.00	.00	.01	.00	.14	.00
6	.01	.00	.00	.00	1.31	.00	.00	.00	.02	.20	.34	.11
7	.00	.00	.01	.00	.00	.70	.00	.00	.05	2.10	.05	.25
8	.00	.00	.00	.40	.00	1.24	.00	.00	2.62	.65	.21	.00
9	.00	.00	.00	.00	.00	.27	.00	.00	.17	.00	.14	.00
10	.00	.00	.00	.10	.19	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.01	.00	.00	.00	.00	.00	.01	.00	1.38	.00
12	.01	.00	.35	.01	.55	.00	.00	.00	.17	.00	.00	.20
13	.02	.01	.00	.00	1.66	.00	.00	.02	.02	.00	.05	1.45
14	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.02	.09
15	.01	.00	.01	.00	.00	.00	.00	.00	.01	.00	.18	.62
16	.00	.00	.11	.00	1.29	.00	.00	.09	.00	.00	.01	.02
17	.00	.01	.00	.00	.02	.00	.00	.00	.00	.00	.00	.01
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.81
19	.00	.00	.00	.00	.13	.00	.00	.00	.00	.29	.80	.24
20	.00	.00	.00	2.09	.00	.00	.04	.01	.42	.00	.00	.01
21	.00	.00	.00	.67	.12	.00	.60	.00	.12	.06	.00	.00
22	.00	.00	.00	.00	.00	.00	.08	.00	.04	.05	.00	.02
23	1.00	.00	.00	.08	.00	.01	.16	.00	.95	.00	1.01	.06
24	.00	.00	.00	.00	.66	1.72	.05	.00	1.07	.30	.30	.00
25	.00	.00	.00	.00	.93	.01	.02	.00	.00	.00	.82	.00
26	.00	.00	.00	.00	.09	.01	.00	.00	.23	.08	.00	.00
27	.00	.00	.00	.12	.00	1.35	.00	.00	.13	.71	.00	.00
28	.00	.00	.00	.00	.00	.27	.00	.16	.42	.22	.00	.00
29	.01	.00	.00	.00	---	.04	.00	.01	.49	.38	.94	.00
30	.00	.01	.00	.00	---	.03	.00	.76	.00	.29	.01	.00
31	.00	---	.00	.00	---	.01	---	.33	---	.18	.00	---
TOTAL	4.44	1.15	.49	3.60	8.16	7.83	2.99	1.39	8.35	7.23	6.64	5.22
WTR YR 1983 TOTAL	57.49											

272926081524800 NEWCOMB RAIN GAGE NEAR ONA, FL

RAINFALL, ACCUMULATED (INCHES)												
SUM												
WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.16	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.73	.00	.00
3	.00	.00	.00	.00	.06	.00	.00	.00	.00	.27	1.08	.00
4	.00	.00	.00	.00	.00	.00	.42	.00	.00	1.95	.00	1.45
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.56	2.60	1.01
6	.00	.00	.16	.00	.00	.08	.00	.01	.00	.00	.01	.00
7	.00	.62	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00
8	.00	.55	.00	.00	.00	.00	.00	.00	.00	.03	.02	.00
9	.00	.00	.00	.00	.00	.00	.56	.08	.00	.00	.00	.00
10	.00	.00	.00	.33	.00	.00	.02	.00	.05	.08	.00	.00
11	.00	.07	.12	.00	.00	.00	.00	.00	.01	.00	.01	.00
12	.31	.00	.88	.00	.00	1.15	.00	.00	.00	.00	.14	.00
13	.09	.00	.00	.02	.38	.68	.00	.00	.00	.09	.97	.00
14	.17	.00	.05	.00	.00	.00	.78	.00	.00	.00	.00	.00
15	.10	.01	.93	.00	.00	.00	.29	.00	.01	1.68	.00	.00
16	.57	.11	.00	.00	.00	.00	.00	.00	.28	.00	.00	.00
17	.06	.00	.32	.00	.00	.00	.05	.00	.48	.00	.00	.15
18	.11	.00	.00	.00	.00	.00	.01	.00	.01	.01	.00	.00
19	.00	.00	.02	.16	.00	.00	.00	.00	.01	.10	.24	.04
20	.00	.76	.00	.13	.00	.40	.00	.01	.00	2.28	.04	.00
21	.00	.00	.00	.00	.40	.00	.06	.00	.00	.00	1.98	.02
22	.01	.00	.00	.00	.71	.00	.00	1.74	.00	.07	.00	.00
23	.00	.00	.02	.01	.00	.77	.58	.02	.67	.23	1.78	.00
24	2.12	.23	.00	.00	.00	.00	.01	.05	.13	.01	.00	.00
25	.01	.04	.00	.00	.00	.00	.01	.85	.00	.35	.00	.00
26	.00	.00	.00	.00	.00	.01	.00	.41	.10	.12	.00	.00
27	.00	.00	.00	.05	.86	.00	.00	.10	.00	.00	.00	1.23
28	.00	.00	.00	.00	.01	.02	.00	.06	.00	.00	.00	.05
29	.00	.08	1.10	.00	.00	.00	.00	.52	.20	.04	.00	.00
30	.00	.34	.02	.00	---	.00	.00	.00	.00	.16	.11	.06
31	.00	---	.00	.00	---	.00	---	.00	---	.05	.00	---
TOTAL	3.55	2.81	3.62	.70	2.42	3.11	2.79	3.85	1.95	9.22	9.14	4.01
CAL YR 1983	TOTAL	61.39										
WTR YR 1984	TOTAL	47.17										

Appendix 2.--Hydrologic Data for Little Manatee River Watershed

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300092 LITTLE MANATEE RIVER AT TAYLOR-GILL ROAD NEAR FORT LONESOME, FL

LOCATION.--Lat 27°41'56", long 82°07'15", in NE1/4 sec.17, T.32 S., R.22 E., Hillsborough County, Hydrologic Unit 03100203, near center of span on downstream side of bridge on Taylor-Gill Road, 1.6 mi east of Fort Lonesome, and 36.8 mi upstream from mouth

DRAINAGE AREA.--6.1 mi².

PERIOD OF RECORD.--April 1981 to September 1984. Discontinued.

GAGE.--Water-stage recorder. Datum of gage is 83.30 ft National Geodetic Vertical Datum of 1929 (Southwest Florida Water Management District bench mark).

REMARKS.--Records fair except those below 5.0 ft³/s and those for period of no gage-height record which are poor.

EXTREMES FOR PERIOD OF RECORD.--Apr. 3 to Sept. 30, 1981: Maximum discharge, 623 ft³/s Sept. 6, gage height, 6.28 ft; minimum, 0.01 cfs for many days; minimum gage height, 2.36 ft June 16.

Water Year 1982: Maximum discharge, 378 ft³/s June 18, gage height, 6.00 ft; minimum, 0.04 ft³/s Oct. 11, 12, Apr. 22, 23, 24, May 7-20; minimum gage height, 2.27 ft Nov. 16, 17.

Water Year 1983: Maximum discharge, 107 ft³/s Feb. 2, gage height, 5.34 ft; minimum, 0.07 ft³/s July 29; minimum gage height 2.44 ft Nov. 29, 30, Dec. 1.

Water Year 1984: Maximum discharge, 111 ft³/s Dec. 30, gage height, 5.37 ft; minimum, 0.05 ft³/s Oct. 9, 10, 11, Nov. 1, 2, 3, Sept. 16, 23, 24, 25, 26, 27; minimum gage height 2.56 ft Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.01	.23	.04	28	16
2							---	.01	.24	.03	26	11
3							.02	.01	.11	.04	30	7.8
4							.01	.01	.26	.04	35	11
5							.01	.01	.16	.04	41	118
6							.01	.02	.10	.04	22	273
7							.01	.04	.08	.04	10	74
8							.01	.05	1.2	.05	5.1	45
9							.01	.05	.49	.54	4.0	27
10							.01	.05	.16	.37	3.0	17
11							.01	.05	.08	.11	2.2	12
12							.01	.06	.07	.12	1.6	8.5
13							.01	.06	.06	.10	10	6.0
14							.01	.07	.05	.08	35	4.4
15							.01	.07	.04	.07	102	3.6
16							.01	.07	.03	.06	62	3.6
17							.01	.07	.03	.05	22	4.8
18							.01	.08	.04	.05	10	6.6
19							.01	.08	.04	.07	6.5	9.3
20							.01	.05	.04	2.9	26	7.4
21							.01	.08	.05	4.2	71	6.3
22							.01	.07	.05	2.1	41	6.0
23							.01	.07	.06	2.9	30	4.9
24							.01	.07	.06	2.5	18	3.5
25							.01	.07	.04	4.8	15	2.5
26							.01	.14	.04	18	12	1.9
27							.01	.28	.05	9.0	14	1.4
28							.01	.12	.18	6.6	82	1.1
29							.01	.09	.07	4.4	82	.79
30							.01	.07	.04	12	41	.56
31							---	.08	---	30	24	---
TOTAL							---	2.09	4.15	101.34	911.4	694.95
MEAN							---	.067	.14	3.27	29.4	23.2
MAX							---	.28	1.2	30	102	273
MIN							---	.01	.03	.03	1.6	.56
CFSM							---	.01	.02	.54	4.82	3.80
IN.							---	.01	.03	.62	5.56	4.24
AC-FT							---	4.1	8.2	201	1810	1380
DAYS	0	0	0	0	0	0	28	31	30	31	31	30

NOTE.--Record estimated June 13-15, July 30 to Aug. 27.

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300092 LITTLE MANATEE RIVER AT TAYLOR-GILL ROAD NEAR FORT LONESOME, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	.41	.17	.22	.85	.65	.35	9.1	.09	30	3.2	6.2	.12				
2	.31	.23	1.0	.78	.64	.32	5.6	.07	21	1.8	3.8	.09				
3	.21	.28	.88	.72	.60	.28	3.5	.06	13	1.1	2.8	.06				
4	.15	.40	1.0	.76	.62	.28	2.2	.06	8.9	9.5	2.2	.05				
5	.10	.60	.9C	.90	.61	.34	1.3	.05	6.9	46	1.6	.05				
6	.08	.53	.68	.72	.59	6.8	.85	.05	5.1	66	1.1	.07				
7	.07	.41	.55	.63	.57	13	.53	.05	3.4	147	.72	.09				
8	.06	.35	.47	.57	.58	20	.41	.04	2.1	85	.52	.24				
9	.05	.31	.4C	.55	.58	14	.33	.04	1.1	50	.48	.49				
10	.04	.32	.33	.48	.57	8.8	.29	.04	.67	52	.32	.52				
11	2.2	.38	.30	.45	.56	5.5	.44	.04	.46	40	.21	.36				
12	9.3	.33	.29	.43	.54	8.0	.41	.04	.44	26	.13	.19				
13	4.7	.28	.29	.56	.51	8.6	.29	.04	.50	16	.09	.15				
14	2.4	.25	.27	1.5	.48	6.8	.21	.04	.29	11	.08	.27				
15	1.3	.23	.42	1.8	.50	4.7	.15	.04	.18	7.2	.86	.12				
16	.78	.21	.46	1.5	.88	3.2	.11	.04	.17	4.4	3.0	.08				
17	.46	.23	.42	1.4	2.4	2.2	.08	.04	1.9	3.0	5.9	.06				
18	.30	.21	.43	1.2	3.5	1.6	.07	.04	214	2.3	5.4	.05				
19	.21	.20	.39	1.1	2.4	1.2	.06	.05	94	2.1	7.9	.06				
20	.14	.21	.36	.95	1.7	.90	.05	.05	45	5.5	9.0	.36				
21	.09	.22	.34	.84	1.2	.73	.05	.05	25	5.2	8.4	3.1				
22	.08	.22	.34	.76	.92	.60	.05	.05	15	4.9	8.8	18				
23	.07	.21	.38	.67	.71	.52	.04	.06	15	9.4	7.4	29				
24	.07	.20	.40	1.5	.60	.39	.05	.18	14	11	5.1	20				
25	.07	.20	.4C	1.6	.54	.78	.06	.52	17	7.3	3.3	13				
26	.07	.19	.87	1.3	.47	.79	.82	4.5	34	4.1	2.0	122				
27	.06	.18	2.2	.97	.41	.59	.49	11	28	6.9	1.1	96				
28	.07	.18	1.7	.82	.38	3.1	.43	13	17	29	.64	48				
29	.06	.20	1.4	.72	---	28	.27	11	9.9	29	.43	27				
30	.05	.22	1.1	.65	---	26	.14	10	5.8	17	.25	17				
31	.09	---	.95	.60	---	16	---	21	---	10	.15	---				
TOTAL	24.05	8.15	20.14	28.28	24.71	184.37	28.38	72.33	629.81	712.9	89.88	396.58				
MEAN	.78	.27	.65	.91	.88	5.95	.95	2.33	21.0	23.0	2.90	13.2				
MAX	9.3	.60	2.2	1.8	3.5	28	9.1	21	214	147	9.0	122				
MIN	.04	.17	.22	.43	.38	.28	.04	.04	.17	1.1	.08	.05				
CFSM	.13	.04	.11	.15	.14	.98	.16	.38	3.44	3.77	.48	2.16				
IN.	.15	.05	.12	.17	.15	1.12	.17	.44	3.84	4.35	.55	2.42				
AC-FT	48	16	40	56	49	366	56	143	1250	1410	178	787				
DAYS	31	30	31	31	28	31	30	31	30	31	31	30				
WTR YR 1982	TOTAL	2219.58	MEAN	6.08	MAX	214	MIN	.04	CFSM	1.00	IN	13.53	AC-FT	4400	DAYS	365

PEACE, WITHLACOOCHIEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300092 LITTLE MANATEE RIVER AT TAYLOR-GILL ROAD NEAR FORT LONESOME, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	.88	.30	.54	1.8	37	14	.26	.48	7.0	1.9	1.9
2	7.8	.76	.31	.61	54	26	11	.27	.33	11	2.4	5.0
3	5.8	.76	.31	.71	75	17	10	.29	.32	54	2.3	8.0
4	14	1.0	.31	.76	36	12	8.1	.32	.42	33	1.9	12
5	79	1.5	.33	.75	18	8.8	6.3	.38	1.1	19	1.7	8.5
6	54	1.3	.33	.76	17	6.6	4.8	.32	2.8	11	2.1	7.0
7	32	1.1	.33	.71	64	13	3.7	.28	3.4	6.9	4.9	4.7
8	20	.90	.35	.69	47	50	2.9	.26	25	6.4	14	3.0
9	13	.73	.37	.70	26	42	3.7	.25	22	5.0	31	2.1
10	8.9	.62	.39	.77	17	25	26	.23	35	5.1	39	1.4
11	6.2	.52	.40	.80	16	16	33	.21	32	3.1	35	.87
12	4.4	.47	.71	.79	15	11	21	.19	18	1.9	23	4.7
13	3.1	.47	.77	.74	66	8.3	13	.18	11	1.1	16	22
14	2.1	.47	.80	.71	72	6.6	9.0	.16	7.9	.59	12	23
15	1.6	.45	.76	.71	40	9.9	6.3	.15	5.6	2.1	9.3	24
16	1.4	.43	.73	.69	32	27	4.5	.15	4.0	2.3	7.8	18
17	1.2	.40	.81	.68	55	82	3.1	.16	2.8	2.1	9.2	13
18	.99	.36	.77	.68	37	56	2.2	.34	1.9	1.4	7.2	13
19	.86	.35	.70	.68	22	32	1.6	.27	1.2	.85	4.4	35
20	.76	.34	.65	2.0	15	19	1.1	.22	.91	.63	3.2	76
21	.64	.37	.59	4.5	11	13	.87	.17	1.1	.44	9.4	60
22	.52	.36	.55	4.8	8.7	8.8	.70	.14	.90	.35	9.4	43
23	2.4	.35	.52	4.2	6.8	6.4	.60	.12	1.1	.31	5.1	26
24	7.0	.33	.50	3.9	5.3	15	.65	.12	1.6	.28	3.3	16
25	8.0	.31	.50	3.3	4.3	25	.55	.11	1.8	.24	3.4	10
26	6.3	.31	.48	2.6	3.5	19	.48	.10	1.7	.18	3.6	6.7
27	4.5	.32	.46	2.4	14	19	.41	.10	1.5	.12	3.2	4.3
28	3.0	.32	.47	2.4	37	37	.34	.10	1.4	.10	2.4	2.7
29	1.8	.30	.47	2.2	---	31	.31	.11	2.9	.28	1.9	1.8
30	1.2	.29	.47	2.0	---	20	.29	.79	7.4	.75	3.2	1.3
31	.97	---	.49	1.8	---	16	---	.82	---	1.2	3.1	---
TOTAL	304.44	17.07	15.93	49.58	816.4	715.4	190.50	7.57	197.56	178.72	276.3	454.97
MEAN	9.82	.57	.51	1.60	29.2	23.1	6.35	.24	6.59	5.77	8.91	15.2
MAX	79	1.5	.81	4.8	75	82	33	.82	35	54	39	76
MIN	.52	.29	.30	.54	1.8	6.4	.29	.10	.32	.10	1.7	.87
CFSM	1.61	.09	.08	.26	4.79	3.79	1.04	.04	1.08	.95	1.46	2.49
IN.	1.86	.10	.10	.30	4.98	4.36	1.16	.05	1.20	1.09	1.68	2.77
AC-FT	604	34	32	98	1620	1420	378	15	392	354	548	902
DAYS	31	30	31	31	28	31	30	31	30	31	31	30
CAL YR 1982	TOTAL	2504.68	MEAN 6.86	MAX 214	MIN .04	CFSM 1.12	IN 15.27	AC-FT 4970	DAYS 365			
WTR YR 1983	TOTAL	3224.44	MEAN 8.83	MAX 82	MIN .10	CFSM 1.45	IN 19.66	AC-FT 6400	DAYS 365			

NOTE.--Record estimated Sept. 4-6.

PEACE, WITHLACOOCHIEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

LITTLE MANATEE RIVER BASIN

02300092 LITTLE MANATEE RIVER AT TAYLOR-GILL ROAD NEAR FORT LONESOME, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	.06	8.3	29	1.2	6.6	1.4	.42	.15	.20	23	.21
2	.53	.06	6.6	17	.99	5.3	1.0	.29	.14	1.4	24	.21
3	.34	.06	4.8	12	.97	4.5	.85	.22	.13	6.6	16	.22
4	.25	.07	3.3	8.7	1.0	3.8	1.5	.17	.11	8.0	18	.10
5	.17	.09	2.4	6.7	1.0	3.3	2.1	.15	.11	7.4	17	.22
6	.12	.10	1.8	5.3	.94	2.8	1.7	.16	.10	6.2	13	.45
7	.08	.17	1.7	4.2	.76	2.4	1.3	.26	.10	5.0	9.3	.36
8	.07	.40	1.4	3.4	.73	2.1	.97	.19	.09	5.3	6.7	.23
9	.06	.34	1.0	2.7	.85	1.7	1.0	.17	.08	15	4.7	.20
10	.05	.33	.85	3.8	.88	1.6	1.3	.16	.08	17	3.3	.21
11	.21	.29	.74	6.1	.84	1.4	1.1	.14	.08	13	2.2	.14
12	.33	.25	1.4	6.2	.81	1.6	.93	.12	.09	8.3	1.8	.08
13	.29	.22	1.6	6.1	5.7	7.3	.79	.12	.08	5.3	1.4	.07
14	.28	.19	1.7	5.7	20	8.1	1.3	.11	.09	3.8	1.1	.07
15	.40	.16	12	5.1	15	6.7	6.4	.11	.09	3.0	.68	.06
16	.91	.17	14	4.6	9.5	5.0	9.7	.11	.09	3.6	.41	.06
17	1.2	.15	11	4.2	6.5	3.4	8.7	.10	2.2	4.2	.30	.06
18	1.1	.13	8.2	3.7	4.5	2.4	6.8	.10	.79	6.1	.25	.06
19	.33	.12	6.3	4.3	3.4	1.8	5.0	.10	.44	5.9	.13	.07
20	.60	.35	5.7	4.5	2.8	1.5	3.4	.11	.62	7.5	.11	.09
21	.45	.79	4.2	4.7	3.7	1.2	2.4	.11	.41	5.1	2.7	.07
22	.34	.83	4.0	4.4	24	.95	1.9	.13	.21	3.9	3.7	.07
23	.29	.67	3.4	4.0	29	3.0	1.7	.15	.17	3.4	3.5	.06
24	.25	.52	2.7	3.5	18	5.5	1.6	.14	.22	6.4	3.0	.06
25	.21	.46	2.0	3.0	11	6.5	1.2	.13	.42	13	2.5	.05
26	.17	.37	1.5	2.7	8.0	6.4	.89	.13	1.2	21	2.6	.05
27	.13	.33	1.2	2.4	6.7	5.3	.71	.16	.85	32	2.0	.18
28	.08	.29	1.3	2.1	8.5	4.1	.57	.20	.50	24	1.4	1.6
29	.07	.27	31	1.8	7.9	3.2	.54	.21	.40	15	.86	.42
30	.07	4.2	96	1.6	---	2.4	.61	.21	.29	15	.50	.28
31	.06	---	53	1.4	---	1.8	---	.19	---	25	.29	---
TOTAL	10.83	12.44	295.69	174.9	195.17	113.65	69.36	5.07	10.32	296.60	166.43	6.01
MEAN	.35	.41	9.54	5.64	6.73	3.67	2.31	.16	.34	9.57	5.37	.20
MAX	1.2	4.2	96	29	29	8.1	9.7	.42	2.2	32	24	1.6
MIN	.05	.06	.74	1.4	.73	.95	.54	.10	.08	.20	.11	.05
CFSM	.06	.07	1.56	.93	1.10	.60	.38	.03	.06	1.57	.88	.03
IN.	.07	.08	1.80	1.07	1.19	.69	.42	.03	.06	1.81	1.01	.04
AC-FT	21	25	587	347	387	225	138	10	20	588	330	12
DAYS	31	30	31	31	29	31	30	31	30	31	31	30
CAL YR 1983	TOTAL	3205.96	MEAN 8.78	MAX 96	MIN .05	CFSM 1.44	IN 19.55	AC-FT 6360	DAYS 365			
WTR YR 1984	TOTAL	1356.47	MEAN 3.71	MAX 96	MIN .05	CFSM .61	IN 8.27	AC-FT 2690	DAYS 366			

274208082063301 JOYCE RAIN GAGE NEAR FORT LONESOME, FL

LOCATION.--Lat 27°42'08", long 82°06'33", in NE1/4 sec.16, T.32 S., R.22 E., Hillsborough County, in Little Manatee River watershed, near private road, 0.1 mi south of State Highway 674, and 2.3 miles east of Fort Lonesome.

PERIOD OF RECORD.--April 1982 to September 1984 (daily totals and 15-minute interval unit values). Discontinued.

GAGE.--Digital recorder with 8-inch diameter receiving funnel and 3-inch diameter collector pipe.

EXTREMES FOR PERIOD OF RECORD.--Apr. 28 to Sept. 30, 1981: Maximum 15-minute rainfall, 1.80 in Sept. 5 (0630 hours).

Water Year 1982: Maximum 15-minute rainfall, 1.21 in Oct. 11 (2115 hours).

Water Year 1983: Maximum 15-minute rainfall, 1.14 in Sept. 12 (1930 hours).

Water Year 1984: Maximum 15-minute rainfall, 1.17 in June 17 (1530 hours).

REMARKS.--No unit values of rainfall July 11-17, Aug. 1-31, Sept. 11-30, Oct. 13-29, 1981, Nov. 24 to Dec. 5, 1983, Feb. 13-15, 1984; daily totals estimated.

DAY	RAINFALL, ACCUMULATED (INCHES)					WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981						
	SUM					VALUES						
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.00	1.17	.00	.00	.01
2							---	.00	.00	.00	.40	.00
3							---	.00	.30	.00	.50	.00
4							---	.00	.12	.00	1.00	2.42
5							---	.00	.00	.00	.10	3.76
6							---	.00	.02	.01	.00	.80
7							---	.48	.00	.00	.00	.40
8							---	.00	2.20	.65	.00	.03
9							---	.00	.01	1.95	.00	.04
10							---	.00	.00	.04	.10	.00
11							---	.00	.10	.35	.60	.00
12							---	.00	.01	.00	.10	.00
13							---	.00	.00	.00	1.40	.00
14							---	.00	.00	.00	.90	.31
15							---	.00	.00	.00	.00	.00
16							---	.00	.01	.00	.00	.73
17							---	.00	.00	.00	.00	.00
18							---	.00	.00	.44	.00	.53
19							---	.00	.00	.23	.00	.00
20							---	.00	.00	1.55	1.20	.00
21							---	.00	.58	.01	.30	.32
22							---	.00	.00	.00	.00	.09
23							---	.00	.57	.78	.00	.01
24							---	.00	.03	.00	.00	.00
25							---	.00	.00	1.49	.00	.00
26							---	2.58	.04	.08	1.20	.02
27							---	.57	1.44	.70	.60	.00
28							.01	.01	.01	.00	.50	.01
29							.00	.00	.00	.82	.00	.00
30							.00	.00	.00	.73	.00	.00
31							---	.30	---	.24	.00	---
TOTAL							---	3.94	6.61	10.07	8.90	9.48

274208082063301 JOYCE RAIN GAGE NEAR FORT LONESOME, FL

DAY	RAINFALL, ACCUMULATED (INCHES)				WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982							
	SUM				VALUES							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.08	.00	.00	.00	.11	.00	.03	.00
2	.00	.00	1.17	.00	.00	.00	.00	.00	.01	.00	.11	.00
3	.00	.00	.00	.00	.04	.00	.00	.00	.00	.01	.14	.00
4	.00	.18	.01	.19	.00	.09	.01	.00	.25	2.52	.01	.00
5	.00	.14	.00	.00	.00	.26	.00	.00	.41	.50	.01	.17
6	.00	.00	.00	.00	.00	1.30	.00	.00	.00	1.79	.00	.00
7	.00	.00	.00	.00	.01	1.05	.00	.00	.02	.82	.06	.67
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.18	.40
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.83	.01	.00
10	.00	.18	.00	.00	.00	.00	.05	.00	.00	.11	.01	.00
11	2.45	.00	.00	.00	.00	.64	.31	.00	.09	.04	.00	.00
12	.00	.00	.00	.00	.00	.01	.00	.00	.25	.00	.00	.00
13	.00	.00	.00	.32	.00	.00	.00	.00	.00	.22	.07	.79
14	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.01	.00
15	.00	.00	.36	.00	.22	.00	.00	.00	.10	.00	1.52	.00
16	.00	.00	.00	.00	.05	.00	.00	.09	.08	.00	.76	.00
17	.00	.07	.00	.00	.87	.00	.00	.00	2.79	.01	.00	.00
18	.00	.00	.00	.00	.01	.00	.00	.00	3.57	.02	.11	.05
19	.03	.00	.00	.00	.00	.00	.00	.00	.00	.24	.59	.95
20	.00	.07	.00	.00	.00	.00	.00	.00	.00	.67	.32	.04
21	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.46
22	.00	.00	.00	.00	.00	.00	.00	.78	.22	.43	.00	.95
23	.00	.00	.00	.00	.00	.00	.00	.76	.00	.37	.00	.00
24	.05	.00	.00	.43	.00	.37	.13	1.48	.36	.00	.00	.00
25	.00	.00	.13	.00	.00	.02	.14	1.10	.70	.00	.00	.10
26	.00	.00	.77	.01	.00	.05	1.33	1.05	.00	.01	.00	3.25
27	.07	.00	.01	.00	.00	.00	.00	.79	.00	1.64	.00	.00
28	.00	.00	.00	.00	.00	2.54	.00	.00	.00	.00	.11	.00
29	.00	.00	.00	.00	---	.12	.00	.17	.00	.02	.00	.00
30	.10	.00	.00	.00	---	.00	.00	1.11	.00	.00	.01	.00
31	.14	---	.00	.00	---	.00	---	.18	---	.00	.00	---
TOTAL	2.84	.64	2.45	1.32	1.28	6.45	1.97	7.51	8.99	10.26	4.06	8.83
WTR YR 1982 TOTAL	56.60											

274208082063301 JOYCE RAIN GAGE NEAR FORT LONESOME, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.00	.00	.00	.00	.05	.00	.00	.01	.15	.36	.57
2	.00	.02	.00	.02	2.83	.00	.14	.00	.00	.90	.01	.37
3	.00	.14	.00	.02	.00	.00	.00	.00	.12	.52	.00	.15
4	2.63	.26	.00	.00	.00	.00	.00	.17	.00	.10	.22	.01
5	.07	.01	.00	.00	.00	.00	.00	.00	1.87	.05	.02	.00
6	.00	.00	.00	.00	1.57	.00	.00	.00	.42	.02	.71	.00
7	.00	.00	.00	.00	.04	1.82	.00	.00	.00	.47	.57	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	2.20	.03	.53	.00
9	.00	.00	.00	.00	.00	.00	1.09	.00	.15	.21	.72	.00
10	.00	.00	.00	.02	.39	.05	.49	.00	.19	.11	.24	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.17	.00	.04	.00
12	.00	.00	.73	.00	.71	.00	.00	.00	.22	.00	.04	2.15
13	.00	.03	.00	.00	1.13	.00	.00	.00	.03	.00	.10	.12
14	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.04	.55
15	.00	.00	.00	.00	.00	1.16	.00	.00	.00	1.01	.00	.01
16	.00	.00	.03	.00	.90	1.16	.00	.00	.00	.00	.89	.04
17	.00	.00	.00	.00	.04	.11	.00	.45	.00	.00	.07	.00
18	.04	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.96
19	.00	.00	.00	.00	.10	.00	.00	.00	.00	.05	.00	1.35
20	.00	.00	.00	1.30	.01	.00	.00	.02	.16	.00	.38	.02
21	.00	.00	.00	.73	.00	.00	.00	.00	.02	.05	.00	.08
22	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00
23	1.56	.00	.00	.21	.00	.00	.14	.00	.36	.00	.05	.01
24	.00	.00	.00	.01	.00	1.14	.01	.00	.24	.00	.41	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.21	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
27	.00	.00	.00	.15	1.40	1.22	.00	.00	.14	.20	.00	.00
28	.00	.00	.00	.00	.34	.00	.00	.03	.28	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.02	1.44	1.24	.11	.01
30	.00	.00	.00	.00	---	.00	.00	2.03	.02	.38	1.30	.00
31	.00	---	.00	.00	---	.36	---	.06	---	.17	.01	---
TOTAL	4.33	.46	.81	2.46	9.46	7.07	1.87	2.79	8.17	5.66	7.04	6.40
CAL YR 1982	TOTAL											
WTR YR 1983	TOTAL											
		56.27										
		56.52										

274208082063301 JOYCE RAIN GAGE NEAR FORT LONESOME, FL

RAINFALL, ACCUMULATED (INCHES)					WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984							
SUM					VALUES							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.53	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.43	.00	.02
3	.01	.00	.00	.00	.05	.00	.00	.00	.00	.08	.49	.00
4	.00	.00	.00	.00	.01	.00	.58	.00	.00	.13	.02	.00
5	.00	.03	.00	.00	.00	.00	.00	.00	.00	.08	.04	.80
6	.00	.00	.16	.00	.00	.00	.00	.35	.00	.00	.00	.00
7	.00	.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.20	.00	.00	.00	.00	.00	.01	.00	1.27	.00	.00
9	.00	.00	.00	.00	.00	.00	.24	.05	.00	.00	.00	.01
10	.52	.00	.00	.53	.00	.00	.00	.00	.00	.00	.00	.00
11	.79	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.14	.00	.44	.00	.04	.84	.00	.00	.00	.00	.27	.00
13	.05	.00	.00	.06	1.43	.32	.00	.00	.00	.14	.23	.00
14	.12	.00	.38	.00	.00	.00	.78	.00	.00	.00	.00	.00
15	.29	.00	.83	.00	.00	.00	.27	.00	.00	.56	.00	.00
16	.39	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.12	.00	.00	.00	.10	.00	3.43	.61	.00	.03
18	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.00	.01
19	.00	.00	.18	.28	.00	.00	.00	.00	.00	.80	.00	.07
20	.00	.87	.00	.09	.00	.04	.00	.00	.00	.05	.25	.00
21	.00	.00	.00	.02	1.18	.00	.06	.01	.00	.01	1.33	.05
22	.00	.00	.00	.00	.23	.00	.01	.78	.00	.01	.00	.00
23	.00	.00	.00	.00	.01	1.00	.11	.07	.14	.40	.11	.00
24	.00	.00	.00	.00	.00	.24	.00	.00	.33	.61	.04	.00
25	.00	.00	.00	.00	.00	.00	.00	.02	.01	.58	.42	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.08	.74	.00	.00
27	.00	.00	.00	.01	.59	.00	.00	.41	.00	.00	.00	2.03
28	.00	.00	.00	.00	.01	.09	.00	.02	.03	.00	.00	.09
29	.00	.00	2.89	.00	.00	.00	.00	.03	.02	.00	.00	.00
30	.00	.08	.09	.00	---	.00	.00	.00	.01	1.03	.00	.01
31	.00	---	.00	.00	---	.00	---	.00	---	.06	.00	---
TOTAL	2.33	1.94	5.10	.99	3.55	2.53	2.15	1.75	4.06	9.64	3.73	3.12
CAL YR 1983 TOTAL	60.29											
WTR YR 1984 TOTAL	40.89											

274213082043401 HARRISON RAIN GAGE NEAR FORT LONESOME, FL

LOCATION.--Lat 27°42'13", long 82°04'34", in NE1/4 sec.14, T.32 S., R.22 E., Hillsborough County, in Little Manatee River watershed, near west side of Taylor Road, 0.1 mi south of State Highway 674, and 4.3 miles east of Ft. Lonesome.

PERIOD OF RECORD.--April 1982 to September 1984 (daily totals and 15-minute interval unit values). Discontinued.

GAGE.--Digital recorder with 8-inch diameter receiving funnel and 3-inch diameter collector pipe.

EXTREMES FOR PERIOD OF RECORD.--Apr. 28 to Sept. 30, 1981: Maximum 15-minute rainfall, 2.23 in June 8 (1445 hours).

Water Year 1982: Maximum 15-minute rainfall, 1.33 in July 6 (1430 hours).

Water Year 1983: Maximum 15-minute rainfall, 1.39 in Sept. 12 (1930 hours).

Water Year 1984: Maximum 15-minute rainfall, 1.29 in June 17 (1530 hours).

REMARKS.--No unit values of rainfall July 29 to Aug. 31, 1981, Jan. 12 to Feb. 10, 1983, Feb. 17 to Mar. 15, 1984; daily totals estimated.

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.00	.19	.00	.00	.00
2							---	.00	.00	.00	.50	.00
3							---	.00	.06	.00	.50	.00
4							---	.00	.08	.00	1.00	2.35
5							---	.00	.00	.00	.20	.66
6							---	.00	.00	.00	.00	.39
7							---	.42	.00	.00	.00	.26
8							---	.00	2.33	.00	.00	.01
9							---	.00	.00	.25	.00	.06
10							---	.00	.00	.17	.10	.00
11							---	.00	.30	.22	.70	.00
12							---	.00	.01	.11	.10	.00
13							---	.00	.00	.07	1.50	.00
14							---	.00	.00	.00	1.00	.00
15							---	.00	.00	.00	.20	.00
16							---	.00	.00	.00	.00	.39
17							---	.00	.00	.00	.00	.08
18							---	.00	.00	.32	.00	.42
19							---	.00	.00	.08	.00	.00
20							---	.00	.00	.55	1.20	.00
21							---	.10	.07	.04	.30	.06
22							---	.00	.01	.00	.00	.03
23							---	.00	1.88	.86	.00	.00
24							---	.00	.00	.00	.00	.00
25							---	.00	.00	1.47	.00	.00
26							---	1.39	.28	.31	1.50	.00
27							---	.41	1.50	.90	.70	.00
28							.00	.01	.01	.00	.60	.00
29							.00	.00	.00	.70	.00	.00
30							.00	.00	.00	.70	.00	.11
31							---	.07	---	.20	.00	---
TOTAL							---	2.40	6.72	6.95	10.10	4.82

274213082043401 HARRISON RAIN GAGE NEAR FORT LONESOME, FL

DAY	RAINFALL, ACCUMULATED (INCHES)				WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982							
	SUM				VALUES							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	.00	.00	.00	.00	.C0	.00	.12	.02	.13	.00
2	.C1	.00	1.34	.00	.00	.00	.C0	.00	.28	.00	.18	.00
3	.00	.00	.C0	.00	.00	.00	.C0	.00	.00	.C1	.16	.00
4	.00	.12	.C0	.27	.00	.00	.C0	.00	.05	1.77	.00	.08
5	.00	.02	.C0	.00	.00	.09	.00	.00	.09	.18	.00	.24
6	.00	.00	.00	.00	.00	1.39	.C0	.00	.00	2.62	.00	.00
7	.00	.C0	.C0	.00	.00	.87	.C0	.00	.00	.63	.00	.70
8	.00	.00	.C0	.00	.00	.00	.C0	.00	.00	.01	.12	.11
9	.00	.00	.C0	.00	.00	.0C	.C0	.00	.00	.89	.00	.00
10	.00	.13	.00	.00	.00	.00	.04	.00	.00	.07	.17	.00
11	.97	.00	.00	.00	.00	1.07	.43	.00	.08	.10	.00	.00
12	.00	.00	.00	.00	.00	.01	.C0	.00	.09	.00	.00	.00
13	.00	.00	.00	.29	.00	.00	.C0	.00	.00	.02	.11	.36
14	.00	.00	.C0	.34	.00	.0C	.00	.00	.00	.00	.00	.00
15	.00	.C0	.26	.00	.89	.C0	.C0	.00	.04	.0C	.54	.00
16	.00	.00	.00	.00	.02	.00	.C0	.02	.01	.0C	.67	.00
17	.00	.C4	.C0	.00	.97	.C0	.C0	.00	2.65	.07	.01	.01
18	.00	.00	.00	.00	.01	.00	.C0	.00	2.99	.00	.08	.40
19	.01	.00	.C0	.00	.00	.0C	.C0	.00	.00	.36	.64	.02
20	.00	.06	.C0	.00	.00	.00	.00	.00	.01	.18	1.33	.01
21	.00	.C0	.C0	.00	.00	.00	.C0	.00	.13	.02	.01	1.40
22	.00	.00	.00	.00	.00	.02	.C0	.31	.77	.48	.00	.95
23	.00	.C0	.C0	.00	.00	.0C	.00	1.75	.00	.C0	.C0	.01
24	.04	.00	.C0	.41	.00	.48	.11	2.07	.34	.00	.00	.00
25	.00	.00	.C7	.00	.00	.04	.08	.84	.79	.00	.C0	.24
26	.00	.00	.63	.00	.00	.0C	1.15	.62	.01	.07	.00	2.76
27	.C6	.C0	.00	.00	.00	.00	.00	.42	.00	2.20	.C0	.00
28	.00	.00	.00	.00	.00	2.3C	.00	.00	.00	.00	.C0	.00
29	.00	.C0	.00	.00	---	.15	.00	.00	.00	.C0	.14	.00
30	.06	.00	.00	.00	---	.0C	.C0	2.07	.01	.00	.C0	.06
31	.22	---	.00	.00	---	.00	---	.18	---	.00	.00	---
TOTAL	1.37	.38	2.30	1.31	1.89	6.42	1.81	8.28	8.46	9.70	4.29	7.35
WTR YR 1982 TOTAL	53.56											

274213082043401 HARRISON RAIN GAGE NEAR FORT LONESOME, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.00	.00	.00	.00	.04	.C0	.00	.00	.00	.28	.46
2	.00	.00	.00	.00	3.00	.00	.12	.00	.00	1.46	.01	1.02
3	.00	.21	.00	.00	.00	.00	.C0	.00	.02	.04	.00	.24
4	1.76	.16	.00	.00	.00	.00	.C0	.10	.00	.00	.63	.01
5	.05	.01	.00	.00	.00	.00	.C0	.01	.79	.11	.06	.00
6	.00	.00	.00	.00	1.80	.00	.C0	.00	.17	.00	.44	.00
7	.00	.00	.00	.00	.12	.95	.C0	.00	.00	.64	.35	.00
8	.00	.00	.00	.00	.00	.44	.C0	.00	2.40	.10	.59	.00
9	.00	.00	.00	.00	.00	.00	1.11	.00	2.02	.00	.47	.00
10	.00	.00	.00	.00	.12	.04	.50	.00	.00	.00	.40	.00
11	.03	.00	.00	.00	.00	.00	.C0	.00	.00	.00	.C1	.00
12	.00	.00	.13	.00	.71	.00	.C0	.00	.00	.00	.21	2.17
13	.00	.00	.C0	.00	1.09	.00	.C0	.00	.00	.01	.09	.08
14	.00	.C0	.C0	.00	.00	.00	.00	.00	.00	.00	.01	.37
15	.00	.C0	.C0	.00	.00	1.06	.C2	.00	.00	.73	.19	.01
16	.00	.00	.17	.00	.88	.28	.C0	.00	.00	.00	.11	.06
17	.00	.C0	.00	.00	.02	.43	.C0	.12	.00	.00	.00	.00
18	.02	.C0	.C0	.00	.00	.07	.C0	.00	.00	.00	.C1	.92
19	.00	.C0	.C0	.00	.08	.04	.C0	.00	.00	.31	.00	1.51
20	.00	.C0	.C0	1.60	.00	.00	.C0	.00	.17	.00	.C2	1.19
21	.00	.00	.00	.90	.00	.00	.C0	.00	.03	.16	.00	.00
22	.00	.00	.C0	.00	.00	.00	.C0	.00	.70	.00	.00	.00
23	1.33	.00	.00	.25	.00	.00	.17	.02	.18	.00	.01	.00
24	.00	.00	.00	.01	.00	1.13	.C1	.00	.35	.C4	.59	.00
25	.00	.00	.00	.00	.00	.00	.C0	.00	.28	.00	.64	.00
26	.00	.00	.00	.00	.00	.00	.C0	.00	.01	.00	.C1	.00
27	.00	.C0	.C0	.20	1.22	.99	.C0	.00	.54	1.20	.00	.00
28	.00	.00	.00	.00	.20	.01	.C0	.04	.74	.00	.00	.00
29	.00	.00	.C0	.00	---	.00	.C0	.02	.45	.97	.00	.00
30	.00	.00	.00	.00	---	.00	.C0	1.84	.04	.28	.00	.00
31	.00	---	.00	.00	---	.37	---	.07	---	.19	.C0	---
TOTAL	3.23	.38	.30	2.96	9.24	5.85	1.93	2.22	8.89	6.24	5.13	8.04
CAL YR 1982	TOTAL	53.42										
WTR YR 1983	TOTAL	54.41										

274213082043401 HARRISON RAIN GAGE NEAR FORT LONESOME, FL

RAINFALL, ACCUMULATED (INCHES) SUM VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.17	.00	.00
3	.00	.00	.00	.00	.03	.00	.00	.00	.00	.11	.91	.00
4	.00	.00	.00	.00	.01	.00	.46	.00	.00	.14	.01	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	.11	.20
6	.00	.00	.12	.00	.00	.00	.00	.36	.00	.00	.01	.03
7	.00	.50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.23	.00	.00	.00	.00	.00	.00	.00	.72	.00	.00
9	.00	.00	.00	.00	.00	.00	.19	.08	.00	.01	.00	.00
10	.99	.00	.00	.44	.00	.00	.00	.00	.00	.00	.00	.00
11	.01	.00	.01	.01	.00	.00	.00	.00	.00	.00	.06	.00
12	.04	.00	.42	.00	.01	.80	.00	.00	.00	.00	.01	.00
13	.02	.00	.00	.05	1.27	.30	.01	.00	.00	.12	.10	.00
14	.14	.00	.22	.00	.00	.00	.87	.00	.00	.00	.00	.00
15	.26	.00	1.01	.01	.00	.00	.41	.00	.00	.70	.00	.00
16	.03	.09	.00	.00	.00	.00	.00	.00	.01	.35	.00	.00
17	.01	.00	.03	.00	.00	.00	.11	.00	2.70	.04	.00	.00
18	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.02
19	.00	.00	.14	.22	.00	.01	.00	.00	.00	.05	.09	.05
20	.00	.87	.00	.06	.00	.03	.00	.00	.00	.17	.25	.00
21	.00	.01	.00	.03	1.15	.00	.03	.00	.00	.00	1.29	.06
22	.00	.00	.00	.00	.21	.00	.01	1.47	.01	.42	.00	.00
23	.00	.00	.00	.00	.00	.85	.10	.04	.17	.77	.08	.00
24	.00	.06	.00	.00	.00	.50	.00	.04	1.30	.38	.02	.01
25	.00	.01	.00	.00	.00	.01	.00	.00	.01	.62	.62	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.08	.27	.00	.00
27	.00	.00	.00	.00	.60	.00	.00	.31	.00	.00	.00	2.14
28	.00	.00	.00	.00	.01	.05	.00	.03	.01	.00	.00	.11
29	.00	.00	2.72	.00	.00	.00	.00	.06	.02	.01	.00	.00
30	.00	1.25	.01	.00	---	.00	.00	.00	.00	.87	.00	.01
31	.00	---	.00	.00	---	.00	---	.00	---	.03	.00	---
TOTAL	1.55	3.02	4.68	.82	3.29	2.55	2.19	2.39	4.31	8.52	3.68	2.63
CAL YR 1983	TOTAL	59.75										
WTR YR 1984	TOTAL	39.63										

Appendix 3.--Hydrologic Data for T. Gallagher Ditch Watershed

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303250 T. GALLAGHER DITCH NEAR DOVER, FL

LOCATION.--Lat 28°00'24", long 82°14'42", in NE1/4 sec.31, T.28 S., R.21 E., Hillsborough County, Hydrologic Unit 03100205, at downstream side of culverts, at intersection of McIntosh and T. Gallagher Roads, 1.0 mi upstream from Baker Creek tributary canal, and 2.2 mi northwest of Dover.

DRAINAGE AREA.--0.47 mi².

PERIOD OF RECORD.--April 1981 to September 1984. Discontinued.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 50.81 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Records include occasional diversion by pumpage from farming area upstream.

EXTREMES FOR PERIOD OF RECORD.--Apr. 7 to Sept. 30, 1981: Maximum discharge, 87 ft³/s Sept. 6, gage height, 7.89 ft, from floodmarks; no flow for many days; ditch dry at gage Apr. 27 to May 31, June 2-10.

Water Year 1982: Maximum discharge, 32 ft³/s Feb. 15, gage height, 4.92 ft, from recorded range; no flow May 14-26; minimum gage height, 2.16 ft May 22, 23.

Water Year 1983: Maximum discharge, 29 ft³/s June 9, gage height, 4.75 ft; minimum, 0.03 ft³/s May 24-30, gage height, 2.25 ft.

Water Year 1984: Maximum discharge, 36 ft³/s June 17, gage height, 5.07 ft; minimum, 0.06 ft³/s May 19-23, gage height, 2.30 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.00	.00	.16	.18	1.3
2							---	.00	.00	.13	.18	1.0
3							---	.00	.00	.10	.17	.82
4							---	.00	.00	.08	.15	3.1
5							---	.00	.00	.06	.28	7.0
6							---	.00	.00	.04	.24	18
7							.13	.00	.00	.03	.20	10
8							.17	.00	.00	.86	.16	5.4
9							.16	.00	.00	.53	.13	7.2
10							.15	.00	.00	.38	.12	4.4
11							.13	.00	.10	.32	.12	5.0
12							.11	.00	.13	.26	.11	4.5
13							.10	.00	.10	.22	.11	1.6
14							.08	.00	.06	.19	.13	1.7
15							.08	.00	.02	.17	.10	1.1
16							.06	.00	.01	.14	.08	3.8
17							.08	.00	.00	.12	.19	8.6
18							.09	.00	2.4	.09	.21	6.6
19							.07	.00	1.3	.08	.37	2.9
20							.06	.00	.58	.11	.93	1.2
21							.05	.00	.50	.10	2.2	1.2
22							.04	.00	.49	.08	1.5	1.6
23							.02	.00	.45	.09	.99	1.5
24							.01	.00	.43	.15	.75	1.4
25							.01	.00	.34	.14	.68	1.4
26							.00	.00	.29	.15	.74	1.3
27							.00	.00	.34	.14	.59	1.2
28							.00	.00	.32	.12	1.4	1.2
29							.00	.00	.24	.10	1.9	1.1
30							.00	.00	.19	.09	2.7	1.2
31							---	.00	---	.14	1.4	---
TOTAL							---	.00	8.29	5.37	19.01	108.32
MEAN							---	.000	.28	.17	.61	3.61
MAX							---	.00	2.4	.86	2.7	18
MIN							---	.00	.00	.03	.08	.82
CFSM							---	.000	.60	.36	1.30	7.68
IN.							---	.00	.65	.42	1.50	8.56
AC-FT							---	.00	16	11	38	215
DAYS	0	0	0	0	0	0	24	31	30	31	31	30

NOTE.--Record estimated Sept. 5-7.

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303250 T. GALLAGHER DITCH NEAR DOVER, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.36	.23	.57	.35	.20	.45	.06	.36	.14	.19	.33
2	1.0	.35	.43	.55	.35	.18	.37	.06	.28	.13	.16	.30
3	.74	.33	.54	.48	.35	.16	.31	.05	.25	.11	.17	.28
4	.58	.31	.27	1.3	.36	.14	.27	.05	.22	.23	.12	.26
5	.53	.32	.22	.46	.36	.24	.23	.04	.20	.22	.15	.26
6	.48	.31	.21	.42	.38	1.3	.21	.03	.18	.22	.18	.28
7	.44	.29	.20	.39	.38	1.1	.19	.02	.14	.88	.17	.45
8	.40	.26	.20	.40	.38	.55	.19	.02	.11	.27	.15	.84
9	.38	.24	.18	.38	.37	.47	.19	.02	.07	.22	.13	.74
10	.36	.26	.17	.36	.35	.43	.26	.02	.05	.18	.12	.58
11	.52	.33	.22	.36	.34	.39	.33	.01	.04	.13	.13	1.1
12	.65	.29	.22	.48	.34	.35	.34	.01	.06	.11	.11	1.1
13	.44	.27	.19	.67	.34	.31	.28	.01	.04	.10	.10	.58
14	.44	.26	.18	1.6	.34	.27	.24	.00	.03	.08	.11	.48
15	.42	.25	.57	1.1	1.7	.24	.21	.00	.02	.08	1.7	.32
16	.36	.24	.41	.84	5.1	.21	.18	.00	.03	.10	1.0	.24
17	.35	.28	.33	.56	.90	.19	.16	.00	.17	.17	.54	.22
18	.33	.26	.32	.56	.75	.17	.14	.00	3.0	.22	.44	.22
19	.30	.25	.34	.55	.62	.15	.14	.00	.80	.22	.54	.35
20	.28	.26	.63	.50	.56	.14	.11	.00	.44	.19	.45	.39
21	.27	.26	.72	.48	.48	.13	.09	.00	.32	.18	.43	.39
22	.27	.24	.44	.46	.43	.12	.08	.00	.28	.17	.47	.51
23	.27	.22	.31	.41	.37	.11	.07	.00	.23	.14	.44	.42
24	.86	.22	.28	.44	.33	.60	.06	.00	.23	.14	.40	.36
25	.79	.22	.29	.40	.29	.50	.06	.00	.27	.58	.35	.37
26	.48	.21	.57	.38	.27	.42	.11	.00	.82	.37	.35	2.2
27	.54	.20	2.6	.36	.24	.35	.14	.01	1.1	.27	.37	1.1
28	.48	.20	2.4	.37	.22	.32	.12	.01	.86	.18	.42	.92
29	.43	.21	1.9	.34	---	.80	.09	.01	.20	.87	.40	.95
30	.40	.21	.54	.34	---	.60	.07	.19	.17	.43	.37	.62
31	.38	---	.56	.34	---	.55	---	.60	---	.26	.35	---
TOTAL	15.17	7.91	16.67	16.85	17.25	11.69	5.69	1.22	10.97	7.59	11.01	17.16
MEAN	.49	.26	.54	.54	.62	.38	.19	.039	.37	.24	.36	.57
MAX	1.0	.36	2.6	1.6	5.1	1.3	.45	.60	3.0	.88	1.7	2.2
MIN	.27	.20	.17	.34	.22	.11	.06	.00	.02	.08	.10	.22
CFSM	1.04	.55	1.15	1.15	1.32	.81	.40	.08	.79	.51	.77	1.21
IN.	1.20	.62	1.32	1.33	1.36	.92	.45	.10	.87	.60	.87	1.36
AC-FT	30	16	33	33	34	23	11	2.4	22	15	22	34
DAYS	31	30	31	31	28	31	30	31	30	31	31	30
WTR YR 1982	TOTAL 139.18	MEAN .38	MAX 5.1	MIN .00	CFSM .81	IN 10.99	AC-FT 276	DAYS 365				

NOTE.--Record estimated Feb. 15 to Mar. 4, Mar. 9-29.

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303250 T. GALLAGHER DITCH NEAR DOVER, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	.41	.22	.12	.22	.40	.73	1.6	.72	.53	1.3	.77	.91				
2	.41	.21	.12	.23	3.4	.70	1.8	.68	.51	1.8	.78	2.5				
3	.37	.31	.12	.23	1.6	.62	1.9	.67	.45	2.1	.73	2.6				
4	.35	.38	.12	.22	1.2	.57	1.6	.65	.45	1.6	1.2	2.1				
5	1.1	.36	.12	.21	.73	.56	1.4	.68	.69	1.4	1.7	1.9				
6	.87	.27	.14	.22	.65	.54	1.3	.65	.70	1.2	1.2	1.8				
7	.64	.24	.13	.22	1.1	3.6	1.1	.60	.70	1.1	1.1	1.5				
8	.49	.20	.15	.27	.76	1.9	1.1	.56	2.4	1.2	1.1	1.2				
9	.42	.20	.19	.30	.63	1.3	1.6	.55	4.4	1.3	1.5	1.2				
10	.35	.18	.18	.29	.80	1.2	2.3	.52	3.2	1.2	1.3	.96				
11	.33	.17	.16	.36	.78	.93	2.0	.48	2.2	1.1	1.2	.89				
12	.31	.15	.86	.33	.83	.75	1.6	.46	2.2	.99	1.1	.86				
13	.30	.17	.61	.33	4.2	.70	1.4	.45	2.1	.95	1.1	1.4				
14	.33	.18	.43	.35	1.9	.71	1.3	.41	1.7	.89	1.4	2.2				
15	.36	.21	.38	.31	1.3	2.7	1.1	.36	1.4	.81	1.2	1.8				
16	.37	.20	.36	.27	1.9	3.9	1.1	.34	1.1	.75	1.3	1.4				
17	.33	.20	.37	.32	1.1	5.4	1.0	.32	1.0	.71	1.3	1.3				
18	.31	.22	.35	.30	.84	3.3	.98	.30	.92	.65	1.2	1.1				
19	.27	.17	.33	.24	.78	2.7	.97	.26	.85	.60	1.1	1.4				
20	.25	.15	.31	.32	1.0	2.1	.97	.21	.81	.58	.99	2.1				
21	.25	.16	.30	.53	.77	1.7	.97	.12	.86	.55	.94	1.9				
22	.26	.15	.28	.59	.70	1.4	.96	.07	.82	.52	.86	1.8				
23	.27	.15	.27	.57	.65	1.3	.93	.04	.77	.52	.80	1.7				
24	.30	.15	.26	.54	.59	1.4	.97	.04	.73	.48	.77	1.4				
25	.28	.14	.25	.49	.57	1.5	.95	.03	.81	.44	.78	1.0				
26	.28	.14	.25	.46	.58	1.2	.92	.03	2.3	.38	.81	.93				
27	.23	.14	.23	.44	.60	4.9	.88	.03	2.2	.51	.76	.84				
28	.23	.14	.23	.44	.70	2.3	.82	.03	1.9	.54	.72	.79				
29	.23	.13	.22	.44	---	2.0	.79	.03	1.6	.48	.72	.75				
30	.22	.12	.21	.42	---	1.7	.76	.03	1.4	.54	.83	.69				
31	.21	---	.21	.41	---	1.7	---	.45	---	.75	1.0	---				
TOTAL	11.33	5.81	8.26	10.87	31.06	56.01	37.07	10.82	41.70	27.94	32.26	42.92				
MEAN	.37	.19	.27	.35	1.11	1.81	1.24	.35	1.39	.90	1.04	1.43				
MAX	1.1	.38	.86	.59	4.2	5.4	2.3	.72	4.4	2.1	1.7	2.6				
MIN	.21	.12	.12	.21	.40	.54	.76	.03	.45	.38	.72	.69				
CFSM	.79	.40	.57	.75	2.36	3.85	2.64	.75	2.96	1.92	2.21	3.04				
IN.	.89	.46	.65	.86	2.45	4.42	2.93	.85	3.29	2.21	2.55	3.39				
AC-FT	22	12	16	22	62	111	74	21	83	55	64	85				
DAYS	31	30	31	31	28	31	30	31	30	31	31	30				
CAL YR 1982	TOTAL	124.83	MEAN	.34	MAX	5.1	MIN	.00	CFSM	.72	IN	9.88	AC-FT	248	DAYS	365
WTR YR 1983	TOTAL	316.05	MEAN	.87	MAX	5.4	MIN	.03	CFSM	1.85	IN	24.96	AC-FT	627	DAYS	365

PEACE, WITHLACOOCHIEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303250 T. GALLAGHER DITCH NEAR DOVER, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.63	.23	.27	1.2	.48	.69	.29	.18	.34	.83	6.7	.34
2	.60	.26	.26	1.6	.42	.71	.26	.17	.29	1.0	2.6	.32
3	.58	.27	.26	2.5	.43	.53	.24	.15	.27	1.1	2.1	.31
4	.54	.24	.26	2.4	.47	.48	1.7	.13	.25	.92	1.7	.37
5	.49	.21	.26	1.6	.38	.46	.73	.11	.23	.77	.96	.45
6	.46	.18	.35	.64	.36	.47	.58	.08	.21	.72	.65	.43
7	.45	.21	.43	.61	.48	.42	.53	.08	.18	.68	.58	.43
8	.43	.26	.36	.55	.38	.48	.47	.07	.16	.68	.55	.41
9	.43	.26	.33	.53	.39	.41	.49	.36	.13	.57	.52	.40
10	.43	.22	.31	1.0	.32	.34	.43	.24	.09	.70	.48	.38
11	.55	.18	.29	.91	.32	.32	.40	.19	.07	1.4	.54	.36
12	.52	.16	1.2	.74	.32	.36	.39	.13	.07	1.3	.67	.34
13	.46	.14	.69	.77	.48	.67	.45	.10	.07	1.1	.56	.32
14	.51	.12	1.5	.67	.47	.40	.44	.07	.07	.87	.55	.30
15	.58	.13	2.6	.64	.89	.36	.50	.07	.07	1.3	.49	.28
16	.54	.18	2.0	.62	1.4	.33	.46	.07	.07	1.1	.46	.26
17	.52	.15	2.0	.61	.46	.33	.46	.07	6.6	2.7	.56	.30
18	.50	.14	.91	.56	.36	.31	.39	.07	2.6	2.3	.64	.35
19	.48	.13	.69	1.0	.35	.28	.36	.06	1.0	3.3	.51	.45
20	.45	.52	1.1	.77	.43	.30	.33	.06	.78	2.0	.72	.42
21	.40	.55	.86	.79	.58	.36	.32	.06	.69	.97	1.8	.40
22	.36	.46	.81	.66	1.4	.30	.31	.08	.62	1.8	1.4	.38
23	.34	.42	.56	.62	.92	.44	.30	2.5	.72	1.4	1.3	.36
24	.39	.39	.53	.57	.71	.43	.29	1.5	1.1	.99	.94	.34
25	.41	.40	.62	.56	.59	.40	.26	.74	.87	.77	.59	.31
26	.36	.38	.99	.54	.54	.44	.24	.68	.80	.78	.55	.60
27	.35	.34	1.2	.56	.83	.58	.23	.65	.72	.92	.50	1.2
28	.29	.34	.61	.57	.99	.45	.22	.59	.63	.71	.46	2.1
29	.25	.33	4.0	.46	.75	.39	.20	.55	.64	.61	.43	.91
30	.25	.30	2.0	.46	---	.35	.18	.51	.68	.79	.38	.54
31	.24	---	1.1	.45	---	.30	---	.45	---	2.2	.36	---
TOTAL	13.79	8.10	29.35	26.16	16.90	13.09	12.45	10.77	21.02	37.28	31.25	14.36
MEAN	.44	.27	.95	.84	.58	.42	.42	.35	.70	1.20	1.01	.48
MAX	.63	.55	4.0	2.5	1.4	.71	1.7	2.5	6.6	3.3	6.7	2.1
MIN	.24	.12	.26	.45	.32	.28	.18	.06	.07	.57	.36	.26
CFSM	.94	.57	2.02	1.79	1.23	.89	.89	.75	1.49	2.55	2.15	1.02
IN.	1.09	.64	2.32	2.07	1.33	1.03	.98	.85	1.66	2.94	2.47	1.13
AC-FT	27	16	58	52	34	26	25	21	42	74	62	28
DAYS	31	30	31	31	29	31	30	31	30	31	31	30
CAL YR 1983	TOTAL 341.89	MEAN .94	MAX 5.4	MIN .03	CFSM 2.00	IN 27.06	AC-FT 678	DAYS 365				
WTR YR 1984	TOTAL 234.52	MEAN .64	MAX 6.7	MIN .06	CFSM 1.36	IN 18.52	AC-FT 465	DAYS 366				

280027082141101 McCLELLAND RAIN GAGE NEAR DOVER, FL

LOCATION.--Lat 28°00'27", long 82°14'11", in NW1/4 sec.32, T.28-S., R.21 E., Hillsborough County, in T. Gallagher Ditch watershed, near private residence on east side of Gallagher Road, 0.7 mi south of U.S. Highway 92, and 1.8 mi northwest of Dover.

PERIOD OF RECORD.--April 1981 to September 1984 (daily totals and 5-minute unit values). Discontinued.

GAGE.--Digital recorder with 8-inch diameter receiving funnel and 3-inch diameter collector pipe.

EXTREMES FOR PERIOD OF RECORD.--Apr. 28 to Sept. 30, 1981: Maximum 5-minute rainfall, 1.04 in June 18 (2130 hours).

Water Year 1982: Maximum 5-minute rainfall, 0.55 in July 25 (1325 hours).

Water Year 1983: Maximum 5-minute rainfall, 0.45 in Feb. 2 (0630 hours).

Water Year 1984: Maximum 5-minute rainfall, 0.66 in May 23 (1925) hours).

REMARKS.--No unit values of rainfall Feb. 20, 21, 1983, May 9-21 1984; daily totals estimated. Record doubtful Jan. 14 to May 8, 1984.

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.00	1.53	.00	.38	.75
2							---	.00	.00	.00	.15	.01
3							---	.00	.01	.00	.00	.00
4							---	.00	.18	.00	.82	2.31
5							---	.00	.00	.00	.00	2.28
6							---	.00	.00	.01	.00	1.55
7							---	.38	.04	.00	.00	.18
8							---	.00	.49	1.01	.00	.32
9							---	.00	.01	.49	.13	1.43
10							---	.00	.00	.12	.00	.09
11							---	.00	.97	.07	.01	.41
12							---	.00	.44	.04	.03	.00
13							---	.00	.18	.01	.53	.00
14							---	.00	.00	.00	.00	.00
15							---	.00	.00	.01	.01	.22
16							---	.00	.00	.01	.01	1.29
17							---	.00	.00	.00	.00	1.13
18							---	.00	2.91	.00	.01	.74
19							---	.00	.01	.00	.53	.00
20							---	.03	.02	.02	2.20	.00
21							---	.00	.25	.03	.54	.00
22							---	.00	.00	.00	.16	.10
23							---	.00	.22	.83	.08	.00
24							---	.00	.08	.27	.40	.00
25							---	.00	.00	.27	.05	.00
26							---	.04	.15	.05	.08	.00
27							---	.20	.17	.25	.93	.00
28							---	.04	.00	.01	.94	.00
29							---	.00	.01	.00	1.33	.00
30							---	.01	.00	.08	.77	.00
31							---	.00	---	1.17	.14	---
TOTAL							---	.65	7.69	4.75	10.23	12.81

280027082141101 McCLELLAND RAIN GAGE NEAR DOVER, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.03	.00	.00	.00	.00	.00	.00	.04	.00	.00	.20
2	.00	.00	.24	.08	.00	.00	.00	.00	.12	.01	.13	.00
3	.00	.00	.00	.00	.27	.00	.00	.00	.06	.00	.02	.00
4	.00	.09	.00	.21	.00	.00	.00	.00	.12	1.27	.00	.00
5	.00	.04	.00	.00	.22	.25	.00	.00	.01	.11	.06	.24
6	.00	.00	.00	.00	.00	1.48	.00	.00	.00	.07	.02	.00
7	.00	.00	.00	.00	.00	.22	.00	.00	.01	.74	.00	1.34
8	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.58
9	.00	.00	.00	.00	.00	.00	.74	.00	.00	.07	.00	.00
10	.00	.42	.00	.00	.00	.00	.01	.00	.00	.00	.17	.22
11	.54	.00	.00	.00	.00	.00	.52	.00	.11	.00	.01	.00
12	.00	.00	.00	.00	.02	.00	.00	.00	.01	.00	.01	.00
13	.00	.00	.00	.53	.00	.00	.00	.00	.00	.02	.22	.00
14	.00	.00	.00	.75	.00	.00	.00	.00	.00	.00	.03	.01
15	.00	.00	.84	.00	2.83	.00	.00	.00	.00	.00	2.54	.01
16	.00	.00	.00	.00	.02	.00	.00	.00	.55	.55	.00	.00
17	.00	.14	.00	.00	.86	.00	.00	.00	1.59	.62	.00	.00
18	.00	.00	.00	.00	.01	.00	.00	.00	1.78	.20	.46	.70
19	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.18	.65
20	.00	.17	.00	.00	.00	.00	.00	.00	.00	.15	.15	.09
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.32	.25
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	.06	.52
23	.00	.00	.00	.00	.00	.00	.01	.59	.06	.00	.00	.00
24	1.14	.00	.05	.01	.00	1.24	.11	.00	.03	.53	.00	.25
25	.00	.00	.25	.00	.00	.10	.28	.07	.70	1.23	.01	.81
26	.00	.00	1.16	.00	.00	.06	.50	.49	.12	.01	.31	.92
27	.15	.00	1.33	.00	.00	.00	.00	.16	.00	.15	.00	.00
28	.00	.00	.00	.00	.00	1.65	.00	.05	.00	.00	.49	.00
29	.00	.00	.01	.00	---	.00	.00	.00	.00	1.56	.18	.00
30	.03	.00	.00	.00	---	.00	.00	1.62	.00	.34	.00	.00
31	.01	---	.00	.00	---	.00	---	.31	---	.00	.00	---
TOTAL	1.87	.89	3.88	1.58	4.23	5.00	2.17	3.29	5.33	7.94	5.37	6.59
WTR YR 1982 TOTAL			48.14									

280027082141101 McCLELLAND RAIN GAGE NEAR DOVER, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	.00	.00	.00	.00	.04	.00	.00	.00	.30	.16	.45
2	.00	.15	.00	.00	2.17	.03	.54	.00	.00	1.12	.00	2.02
3	.00	.40	.00	.00	.00	.03	.00	.00	.00	.00	.01	.43
4	.00	.44	.00	.00	.00	.04	.00	.17	1.08	.00	2.05	.01
5	1.37	.02	.00	.01	.00	.03	.00	.01	.00	.14	.01	.00
6	.00	.00	.00	.00	1.08	.03	.00	.00	.02	.09	.03	.11
7	.00	.00	.00	.00	.08	2.42	.00	.00	.38	.42	.22	.09
8	.00	.00	.24	.42	.00	.03	.00	.00	2.63	.40	.43	.00
9	.00	.00	.00	.00	.00	.03	1.09	.00	1.50	.00	.06	.03
10	.00	.00	.00	.40	.55	.05	.36	.00	.40	.00	.00	.00
11	.03	.00	.00	.00	.00	.02	.00	.00	.03	.00	.31	.00
12	.00	.00	1.13	.00	1.00	.01	.00	.00	.00	.00	.20	.91
13	.00	.14	.00	.00	1.32	.02	.00	.00	.62	.00	1.12	.25
14	.26	.00	.00	.00	.00	.02	.00	.00	.00	.00	.60	.69
15	.00	.24	.00	.00	.00	1.66	.09	.00	.00	.01	.00	.00
16	.00	.00	.04	.00	1.04	.75	.00	.00	.00	.00	.14	.12
17	.00	.00	.00	.00	.05	.23	.00	.00	.00	.00	.01	.05
18	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.03
19	.00	.00	.00	.00	.37	.00	.21	.00	.00	.00	.15	.87
20	.00	.00	.00	.84	.00	.08	.00	.00	.39	.00	.00	.70
21	.00	.00	.00	.39	.00	.31	.00	.00	.04	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
23	.33	.00	.00	.07	.01	.00	.23	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.01	.62	.00	.00	.61	.00	.09	.01
25	.00	.00	.00	.00	.01	.00	.00	.00	.08	.00	.38	.01
26	.00	.00	.00	.00	.01	.00	.00	.00	2.29	.70	.06	.01
27	.00	.01	.00	.17	.44	2.12	.00	.00	.38	.09	.00	.00
28	.00	.00	.00	.00	.23	.00	.00	.00	.01	.06	.00	.01
29	.00	.00	.00	.00	---	.00	.00	.00	.11	.40	.67	.00
30	.00	.00	.00	.00	---	.00	.00	1.79	.01	.88	.58	.00
31	.00	---	.00	.00	---	.45	---	.00	---	.04	.04	---
TOTAL	2.70	1.40	1.41	2.30	8.37	9.02	2.54	1.97	10.58	4.65	7.32	6.81
CAL YR 1982	TOTAL		47.01									
WTR YR 1983	TOTAL		59.07									

280027082141101 McCLELLAND RAIN GAGE NEAR DOVER, FL

RAINFALL, ACCUMULATED (INCHES)												
SUM												
WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984												
VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.39	2.29	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00
3	.00	.00	.00	.00	.05	.00	.00	.00	.00	.27	.00	.00
4	.00	.00	.00	.00	.00	.00	2.01	.00	.00	.01	.00	.54
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.06	.05
6	.00	.00	.57	.00	.00	.00	.00	.07	.00	.00	.02	.03
7	.00	.32	.01	.00	.00	.02	.00	.00	.00	.23	.06	.00
8	.01	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.08	1.16	.00	.51	.00	.00
10	.44	.00	.00	.87	.00	.00	.00	.00	.00	.00	.01	.00
11	.03	.02	.35	.00	.00	.00	.00	.00	.00	1.58	.96	.00
12	.00	.00	.94	.00	.00	.58	.00	.00	.00	.29	.03	.00
13	.19	.00	.00	.24	.51	.20	.21	.00	.00	.08	.10	.00
14	.15	.00	1.25	.00	.00	.00	.26	.00	.00	.00	.01	.00
15	.04	.23	.61	.00	.00	.00	.21	.00	.00	.91	.01	.00
16	.04	.08	.00	.00	.00	.00	.00	.00	.15	.00	.00	.03
17	.05	.00	.17	.00	.00	.00	.00	.00	4.25	.29	.75	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.03	.56	.01	.73
19	.00	.00	.52	.71	.00	.00	.00	.00	.00	.10	.70	.08
20	.00	1.24	.00	.25	.36	.44	.00	.00	.00	.67	.51	.00
21	.00	.00	.00	.07	.76	.00	.00	.00	.01	.96	1.17	.00
22	.00	.00	.00	.00	.55	.00	.00	.41	.00	.53	.01	.00
23	.00	.00	.00	.00	.00	.52	.06	3.06	.50	.07	.00	.00
24	.40	.21	.00	.00	.00	.00	.00	.45	.88	.21	.02	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.10	.01	.16	.00
26	.00	.00	.00	.00	.00	.45	.00	.54	.30	.72	.00	.00
27	.00	.00	.00	.00	.86	.00	.00	.00	.01	.01	.00	3.01
28	.00	.00	.00	.00	.09	.00	.00	.00	.06	.01	.00	.59
29	.00	.00	2.25	.00	.00	.00	.00	.16	.38	.21	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.55	.53	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	1.31	.00	---
TOTAL	1.35	2.20	6.67	2.14	3.18	2.21	2.83	5.85	7.22	11.24	6.88	5.06
CAL YR 1983	TOTAL		63.78									
WTR YR 1984	TOTAL		56.83									

Appendix 4.--Hydrologic Data for Campbell Branch Watershed

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303313 CAMPBELL BRANCH NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°03'09", long 82°14'58", in NW1/4 sec.18, T.28 S., R.12 E. Hillsborough County, Hydrologic Unit 03100205, near center of span on downstream side of bridge on McIntosh Road, 0.38 mi north of Thonotosassa Road, 1.6 mi upstream from mouth and 3.4 mi east of Thonotosassa.

DRAINAGE AREA.--5.9 mi².

PERIOD OF RECORD.--April 1981 to September 1984. Discontinued.

GAGE.--Water-stage recorder. Datum of gage is 39.42 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Apr. 10 to Sept. 30, 1981: Maximum discharge, 67 ft³/s Sept. 6, gage height, 3.89 ft; no flow for many days; minimum gage height, 1.07 ft, estimated, May 30.

Water Year 1982.--Maximum discharge, 65 ft³/s, July 25, gage height, 3.70 ft; minimum discharge, 0.06 ft³/s, Nov. 9, 10; minimum gage height, 1.14 ft May 19.

Water Year 1983.--Maximum discharge, 174 ft³/s Sept. 2, gage height, 4.37 ft; minimum, 0.50 ft³/s, estimated May 28.

Water Year 1984.--Maximum discharge, 187 ft³/s Aug. 1, gage height, 4.51 ft; minimum observed, 0.62 ft³/s May 24, gage height, 1.20 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.00	.11	.03	1.9	4.2
2							---	.00	.62	.01	5.7	3.7
3							---	.00	.24	.01	1.8	2.1
4							---	.00	.06	.00	1.8	1.6
5							---	.00	.06	.00	2.0	4.0
6							---	.00	.01	.00	1.3	14
7							---	.00	.00	.00	.99	26
8							---	.00	.01	.29	1.0	18
9							---	.00	.19	.52	.58	16
10							.03	.00	.16	.19	.51	14
11							.03	.00	.78	.10	.42	12
12							.01	.00	2.0	.05	.55	10
13							.00	.00	1.1	.03	.55	7.4
14							.00	.00	.58	.04	.57	5.5
15							.00	.00	.35	.03	.38	4.3
16							.00	.00	.18	.01	.19	6.7
17							.00	.00	.16	.02	.16	15
18							.00	.00	.18	.05	.17	35
19							.00	.00	.93	.04	.34	31
20							.00	.00	.55	.20	1.1	18
21							.00	.00	.27	.44	2.4	13
22							.00	.00	.24	.29	1.7	10
23							.00	.00	.26	.55	1.6	8.0
24							.00	.00	.19	1.5	1.2	6.0
25							.00	.00	.27	.73	1.2	4.6
26							.00	.00	.12	.48	1.1	3.6
27							.00	.00	.13	.34	1.3	3.0
28							.01	.00	.08	.23	6.9	2.6
29							.00	.00	.04	.18	6.5	2.3
30							.00	.00	.03	.11	5.7	1.9
31							---	.00	---	.47	4.8	---
TOTAL							---	.00	9.90	6.94	56.41	303.5
MEAN							---	.000	.33	.22	1.82	10.1
MAX							---	.00	2.0	1.5	6.9	35
MIN							---	.00	.00	.00	.16	1.6
CFSM							---	.000	.06	.04	.31	1.71
IN.							---	.00	.06	.04	.36	1.91
AC-FT							---	.00	20	14	112	602
DAYS	0	0	0	0	0	0	21	31	30	31	31	30

NOTE.--Record estimated May 12-14, 23-31.

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303313 CAMPBELL BRANCH NEAR THONOTOSASSA, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	1.6	.29	.41	1.6	.70	1.1	4.4	.95	8.6	4.2	19	7.0				
2	1.5	.30	.52	1.6	.69	1.1	3.3	.71	7.2	3.5	15	6.0				
3	1.3	.28	.60	1.4	.80	1.0	2.4	.68	6.9	3.2	14	5.1				
4	1.0	.45	.52	1.6	.86	1.1	2.0	.70	6.3	3.0	12	4.3				
5	1.0	.65	.39	2.0	.86	1.1	1.6	.71	5.0	4.1	10	3.6				
6	1.0	.54	.36	1.5	.89	9.4	1.2	.60	4.3	4.8	9.7	3.6				
7	1.0	.36	.38	1.3	.84	7.8	1.1	.53	3.3	5.2	8.4	4.5				
8	.92	.21	.41	1.1	.86	6.3	.94	.42	2.8	5.5	7.2	10				
9	.93	.27	.46	.93	.70	4.4	1.7	.33	2.2	4.2	6.4	13				
10	.73	.55	.45	1.1	.81	3.4	3.7	.33	1.7	3.3	5.8	14				
11	.63	1.2	.46	.95	.85	2.8	7.8	.34	1.5	2.6	5.2	15				
12	.62	.88	.85	1.7	.67	2.4	6.2	.32	4.8	2.1	4.7	13				
13	.78	.56	1.0	2.9	.63	1.8	3.9	.25	3.8	1.9	4.3	11				
14	.82	.40	.35	7.6	.46	1.5	2.1	.21	2.7	1.7	3.6	9.4				
15	.60	.28	.75	7.2	2.2	1.3	1.9	.20	2.1	1.4	10	8.6				
16	.54	.23	1.3	5.7	17	1.1	1.5	.15	1.5	1.5	22	7.3				
17	.67	.36	.72	4.0	17	.99	1.2	.13	2.2	2.2	13	6.2				
18	.48	.26	.57	3.2	14	1.1	.94	.14	24	2.5	9.8	5.7				
19	.36	.29	.71	2.5	9.0	.91	.89	.11	23	4.0	9.5	9.7				
20	.45	.35	1.9	2.1	6.3	.62	.76	.14	16	3.8	7.9	12				
21	.25	.47	3.4	1.8	4.4	.54	.82	.20	12	5.4	11	9.7				
22	.25	.39	1.5	1.6	3.3	.59	1.2	.18	10	4.7	20	14				
23	.28	.43	.73	1.3	2.6	.55	1.4	.82	8.7	8.7	15	13				
24	1.1	.43	.39	1.1	2.1	.56	1.2	1.2	8.2	48	12	9.8				
25	2.1	.35	.32	1.0	1.8	3.0	1.1	.83	9.7	50	11	8.8				
26	1.9	.32	1.4	.99	1.5	2.1	2.5	.74	10	39	13	34				
27	.99	.29	9.1	.96	1.3	1.3	2.1	1.1	8.8	26	16	22				
28	.68	.28	6.3	.93	1.1	2.3	1.6	2.6	7.2	23	16	16				
29	.57	.26	3.3	.74	---	11	1.2	1.5	6.0	23	14	13				
30	.47	.26	2.2	.71	---	8.3	1.0	1.2	5.0	32	11	11				
31	.41	---	1.9	.67	---	6.2	---	8.5	---	25	8.4	---				
TOTAL	25.93	12.19	43.65	63.78	94.22	87.66	63.65	26.82	215.5	349.5	344.9	320.3				
MEAN	.84	.41	1.41	2.06	3.37	2.83	2.12	.87	7.18	11.3	11.1	10.7				
MAX	2.1	1.2	9.1	7.6	17	11	7.8	8.5	24	50	22	34				
MIN	.25	.21	.32	.67	.46	.54	.76	.11	1.5	1.4	3.6	3.6				
CFSM	.14	.07	.24	.35	.57	.48	.36	.15	1.22	1.92	1.88	1.81				
IN.	.16	.08	.28	.40	.59	.55	.40	.17	1.36	2.20	2.17	2.02				
AC-FT	51	24	87	127	187	174	126	53	427	693	684	635				
DAYS	31	30	31	31	26	31	30	31	30	31	31	30				
WTR YR 1982	TOTAL	1648.10	MEAN	4.52	MAX	50	MIN	.11	CFSM	.77	IN	10.39	AC-FT	3270	DAYS	365

PEACE, WITHLACOOCHIEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303313 CAMPBELL BRANCH NEAR THONOTOSASSA, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	14	2.3	.97	.68	1.5	11	23	3.1	2.4	9.4	1.9	5.3				
2	52	2.5	.96	.72	9.1	9.2	23	2.7	2.4	21	2.6	68				
3	35	3.1	.88	.74	13	8.2	27	2.4	2.4	65	2.4	134				
4	21	4.1	.81	.74	10	7.2	22	2.2	5.1	33	4.8	85				
5	16	5.1	.81	.79	8.2	6.3	19	2.2	3.9	19	16	48				
6	26	4.0	.81	.73	8.0	5.9	15	1.8	2.5	14	14	32				
7	19	3.2	.82	.74	13	31	13	1.6	2.4	14	16	22				
8	15	2.8	.85	.86	11	73	11	1.4	25	51	15	19				
9	13	2.7	.92	.75	9.5	41	17	1.2	45	51	16	17				
10	11	2.4	.97	.75	9.7	24	42	1.1	42	28	15	14				
11	9.9	2.1	1.1	1.0	11	18	30	.96	19	18	13	11				
12	9.4	1.9	2.3	1.1	11	15	20	.89	11	14	11	12				
13	8.0	2.5	2.3	.92	46	13	15	.82	9.1	11	14	42				
14	8.2	2.4	1.5	.96	39	11	12	.82	9.2	9.0	16	41				
15	8.6	2.4	1.4	.98	23	26	11	.75	6.5	7.3	13	42				
16	7.6	2.3	1.3	1.1	36	66	9.2	.75	4.8	6.1	10	30				
17	6.7	2.2	1.1	.97	49	77	8.0	.68	3.3	5.1	9.1	31				
18	6.0	2.1	1.0	1.0	29	56	7.6	.62	2.5	4.1	7.2	27				
19	5.4	1.8	.98	1.0	20	35	13	.62	2.1	3.6	6.1	25				
20	4.7	1.6	.97	1.8	19	25	10	.62	1.9	3.4	5.3	31				
21	4.3	1.5	.86	3.1	16	21	8.0	.62	1.9	3.1	4.4	33				
22	4.0	1.4	.81	2.9	14	17	6.7	.62	1.8	2.7	3.9	23				
23	3.7	1.4	.78	2.5	12	14	6.7	.62	1.6	2.4	3.3	17				
24	4.1	1.4	.76	2.0	11	13	7.7	.62	2.8	2.2	3.1	14				
25	3.7	1.1	.73	1.8	9.2	19	6.7	.62	4.8	2.1	3.3	11				
26	3.4	1.1	.68	1.7	8.0	16	5.5	.56	3.8	2.0	3.3	9.1				
27	3.0	.90	.68	1.7	8.7	53	4.6	.56	4.9	1.9	3.1	7.5				
28	2.9	1.0	.71	1.8	10	83	3.7	.50	4.3	1.8	3.0	6.5				
29	2.5	.97	.71	1.8	---	42	3.6	.82	3.3	1.6	5.3	5.7				
30	2.4	.96	.69	1.6	---	27	3.2	3.0	4.2	2.2	6.7	5.1				
31	2.3	---	.68	1.5	---	23	---	2.9	---	2.1	5.8	---				
TOTAL	332.8	65.25	30.84	40.73	464.9	896.8	405.2	38.67	235.9	411.1	253.6	868.2				
MEAN	10.7	2.15	.99	1.31	16.6	28.9	13.5	1.25	7.86	13.3	8.18	28.9				
MAX	52	5.1	2.3	3.1	49	83	42	3.1	45	65	16	134				
MIN	2.3	.90	.68	.68	1.5	5.9	3.2	.50	1.6	1.6	1.9	5.1				
CFSM	1.81	.37	.17	.22	2.81	4.90	2.29	.21	1.33	2.25	1.39	4.90				
IN.	2.10	.41	.19	.26	2.93	5.65	2.55	.24	1.49	2.59	1.60	5.47				
AC-FT	660	129	61	81	922	1780	804	77	468	815	503	1720				
DAYS	31	30	31	31	28	31	30	31	30	31	31	30				
CAL YR 1982	TOTAL	1995.22	MEAN	5.47	MAX	52	MIN	.11	CFSM	.93	IN	12.58	AC-FT	3960	DAYS	365
WTR YR 1983	TOTAL	4043.99	MEAN	11.1	MAX	134	MIN	.50	CFSM	1.88	IN	25.49	AC-FT	8020	DAYS	365

NOTE.--Record estimated May 2-10, 12-19, 21-29, June 22, 23, July 22 to Aug. 3.

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

HILLSBOROUGH RIVER BASIN

02303313 CAMPBELL BRANCH NEAR THONOTOSASSA, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	4.6	1.0	1.4	19	4.6	9.5	3.5	1.1	2.3	4.4	42	8.6				
2	4.3	1.0	1.4	16	4.5	7.9	3.4	.96	2.2	5.7	54	6.9				
3	4.1	.96	1.4	13	4.4	6.5	3.7	.82	1.6	10	25	5.9				
4	3.7	.96	1.4	11	4.3	5.4	10	.82	1.6	12	17	5.7				
5	3.5	.89	1.6	10	4.3	4.7	15	.75	1.4	6.3	13	6.9				
6	3.2	.89	3.7	9.2	4.0	4.0	12	1.0	1.3	4.9	9.7	6.0				
7	3.0	1.4	4.8	5.2	3.9	3.8	2.2	.96	1.2	3.7	8.5	5.2				
8	2.7	1.9	3.3	7.5	3.8	3.8	6.0	1.4	1.1	3.5	8.9	4.8				
9	2.7	1.6	3.1	6.8	3.7	3.7	4.6	4.0	.96	3.5	8.3	4.5				
10	2.7	1.6	3.0	10	3.5	3.5	4.1	3.6	.96	10	7.5	3.8				
11	2.6	1.4	3.1	13	3.4	3.4	3.5	2.7	.96	8.1	7.3	3.5				
12	2.4	1.3	2.2	11	4.0	4.0	3.4	2.2	.89	6.0	7.3	3.4				
13	2.3	1.2	7.3	11	6.0	5.4	3.7	1.9	.89	6.6	6.7	3.1				
14	3.5	1.1	2.8	10	6.7	4.6	3.7	1.6	.89	11	5.9	3.0				
15	3.4	1.0	19	9.1	4.3	4.0	4.1	1.4	.96	12	5.3	2.8				
16	3.1	1.9	16	8.6	4.1	3.7	4.3	1.2	3.4	14	4.6	2.8				
17	3.2	1.8	17	7.7	4.1	3.5	3.2	1.0	11	14	4.4	3.5				
18	3.5	1.6	16	7.3	4.0	3.4	2.9	.96	10	19	4.1	3.4				
19	3.2	1.5	13	14	3.9	3.2	2.3	.89	5.1	23	4.0	3.1				
20	3.0	3.6	13	13	3.9	3.5	2.0	.75	3.3	29	4.7	2.8				
21	2.7	4.5	12	13	5.0	3.4	1.9	.68	2.8	17	11	2.7				
22	2.4	3.3	10	11	19	3.2	1.6	.68	2.6	15	15	2.6				
23	2.2	2.8	9.0	9.3	16	3.7	1.4	.68	2.8	24	11	2.4				
24	2.1	2.7	7.8	8.3	11	3.5	1.4	.62	3.1	17	8.6	2.3				
25	2.0	2.3	7.3	7.9	8.3	3.4	1.2	3.4	3.1	21	10	2.2				
26	1.9	2.1	8.6	7.0	6.6	3.4	1.3	3.2	2.8	15	46	3.4				
27	1.6	1.9	9.7	6.7	8.3	5.1	1.1	2.7	2.7	19	29	4.9				
28	1.6	1.6	7.9	6.1	16	4.1	1.0	3.4	2.6	13	21	23				
29	1.5	1.6	33	5.3	12	3.8	.96	3.2	3.1	9.9	16	13				
30	1.2	1.5	51	4.9	---	3.7	1.3	3.0	3.1	8.9	13	9.5				
31	1.1	---	30	4.7	---	3.5	---	2.7	---	10	10	---				
TOTAL	35.0	53.00	333.8	299.6	138.0	132.3	116.66	54.27	80.71	376.5	438.8	155.7				
MEAN	2.74	1.77	10.8	9.66	6.43	4.27	3.89	1.75	2.69	12.1	14.2	5.19				
MAX	4.6	4.5	51	19	19	9.5	15	4.0	11	29	54	23				
MIN	1.1	.89	1.4	4.7	3.4	3.2	.96	.62	.89	3.5	4.0	2.2				
CFSM	.46	.30	1.83	1.64	1.10	.72	.66	.30	.46	2.05	2.41	.88				
IN.	.54	.33	2.10	1.89	1.19	.83	.74	.34	.51	2.37	2.77	.98				
AC-FT	169	105	662	594	373	262	231	108	160	747	870	309				
DAYS	31	30	31	31	29	31	30	31	30	31	31	30				
CAL YR 1983	TOTAL	4086.90	MEAN	11.2	MAX	134	MIN	.50	CFSM	1.90	IN	25.77	AC-FT	8110	DAYS	365
WTR YR 1984	TOTAL	2314.34	MEAN	6.32	MAX	54	MIN	.62	CFSM	1.07	IN	14.59	AC-FT	4590	DAYS	366

NOTE.--Record estimated Oct. 4-24, Oct. 26 to Nov. 2, Nov. 4-19, Nov. 23 to Dec. 1, Dec. 3-5, 9, 10, Feb. 6-11, Mar. 6-11, Mar. 16-26, Mar. 30 to Apr. 2, Apr. 11, 12, 17-19, Apr. 21 to May 8, May 11-23, May 25 to June 15, June 21-28, Sept. 10-26.

280314082103301 DIAMOND "G" RAIN GAGE NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°03'14", long 82°10'33", in NE1/4 sec.14, T.28 S., R.21 E., Hillsborough County, in Campbell Branch watershed, on south side of Booth Road, 200 ft west of intersection with Cork Road, and 8.0 miles east of Thonotosassa.

PERIOD OF RECORD.--June 1981 to September 1984 (daily totals and 15-minute interval unit values). Discontinued.

GAGE.--Digital recorder with 8-inch diameter receiving funnel and 3-inch diameter collector pipe.

EXTREMES FOR PERIOD OF RECORD.--June 11 to Sept. 30, 1981: Maximum 15-minute rainfall, 0.95 in July 23 (1515 hours).

Water Year 1982: Maximum 15-minute rainfall, 1.38 in May 27 (1445 hours).

Water Year 1983: Maximum 15-minute rainfall, 1.28 in Sept. 12 (2015 hours).

Water Year 1984: Maximum 15-minute rainfall, 0.76 in Dec. 6 (1700 hours).

REMARKS.--No unit values of rainfall Feb. 14 to Mar. 7, 1982, Nov. 5-18, 1983, May 9-28, Aug. 28 to Sept. 3, 1984; daily totals estimated.

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
SUM VALUES

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	.00	.58	.00
2									---	.00	.03	.00
3									---	.00	.00	.03
4									---	.00	.68	.93
5									---	.00	.00	.05
6									---	.43	.00	.84
7									---	.00	.09	.09
8									---	.51	.00	.02
9									---	.00	.85	.33
10									---	.00	.00	.06
11									.64	.02	.00	.17
12									.02	.36	.01	.00
13									.00	.06	.24	.00
14									.00	.35	.01	.00
15									.00	.00	.08	.00
16									.00	.12	.00	1.11
17									.27	.00	.00	1.33
18									.47	.00	.07	.68
19									.00	.18	.00	.00
20									.37	.67	.91	.00
21									.02	.04	.22	.00
22									.00	.00	.34	.00
23									.13	1.68	.02	.00
24									.01	.00	.37	.00
25									.00	.75	.01	.00
26									.17	.04	.11	.00
27									.34	.00	1.60	.00
28									.00	.00	.84	.00
29									.01	.00	.27	.00
30									.00	.32	.27	.00
31									---	.45	.53	---
TOTAL									---	5.98	8.13	5.64

280314082103301 DIAMOND "G" RAIN GAGE NEAR THONOTOSASSA, FL

RAINFALL, ACCUMULATED (INCHES) SUM												
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982 VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.03	.00	.01	.00	.00	.00	.00	.04	.00	.00	.09
2	.00	.00	.26	.02	.00	.00	.00	.00	.68	.03	.00	.00
3	.00	.00	.00	.00	.07	.00	.01	.00	.34	.00	.03	.01
4	.00	.23	.00	.23	.00	.00	.00	.00	.00	.47	.00	.00
5	.00	.16	.00	.00	.00	.10	.00	.00	.01	.37	.21	.30
6	.00	.00	.00	.00	.01	1.79	.01	.00	.00	.02	.01	.01
7	.00	.00	.00	.00	.00	.04	.00	.00	.00	.41	.02	1.73
8	.00	.00	.00	.01	.00	.00	.00	.00	.01	.00	.53	.25
9	.00	.00	.00	.00	.06	.00	1.01	.00	.00	.00	.00	.09
10	.00	.53	.00	.00	.01	.00	.01	.00	.00	.00	.02	.77
11	.00	.00	.00	.00	.00	.00	.59	.00	.97	.02	.00	.00
12	.00	.00	.00	.00	.04	.00	.00	.00	.04	.02	.00	.00
13	.00	.00	.00	.63	.01	.00	.00	.00	.00	.01	.01	.00
14	.00	.00	.00	.68	.00	.00	.00	.00	.01	.00	.00	.00
15	.00	.00	.73	.00	2.11	.00	.00	.00	.02	.00	.50	.01
16	.00	.00	.00	.00	.00	.00	.00	.00	.15	.71	.36	.00
17	.00	.10	.00	.00	1.06	.00	.00	.00	1.49	.18	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	2.32	.43	.27	.08
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.30
20	.00	.13	.00	.00	.00	.00	.00	.00	.00	.72	.06	.02
21	.00	.00	.00	.00	.00	.00	.00	.06	.33	.00	1.15	.19
22	.00	.00	.00	.00	.00	.00	.52	.00	.00	.01	.01	.57
23	.00	.00	.00	.00	.00	.00	.00	1.15	.01	2.01	.00	.00
24	.82	.00	.00	.02	.00	1.43	.23	.11	.46	.03	.00	.00
25	.00	.00	.12	.00	.00	.01	.25	.00	.22	1.08	.00	.70
26	.01	.00	1.14	.00	.00	.00	.49	.17	.03	.00	1.00	1.55
27	.12	.00	1.11	.00	.00	.00	.00	2.32	.00	.40	.18	.00
28	.00	.00	.00	.00	.00	1.45	.00	.01	.00	.15	.00	.00
29	.00	.00	.00	.00	---	.13	.00	.35	.00	1.69	.17	.00
30	.02	.00	.00	.00	---	.00	.00	2.81	.00	.00	.00	.00
31	.02	---	.00	.00	---	.00	---	.31	---	.00	.00	---
TOTAL	.99	1.18	3.36	1.60	3.37	4.95	3.12	7.29	7.13	8.76	4.67	6.67
WTR YR 1982 TOTAL	53.09											

280314082103301 DIAMOND "G" RAIN GAGE NEAR THONOTOSASSA, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.43	.00	.00	.00	.00	.03	.00	.00	.00	.57	.49	.27
2	.03	.26	.00	.00	2.08	.00	.51	.00	.00	1.50	1.02	3.04
3	.00	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60
4	.00	.51	.00	.00	.00	.00	.00	.17	.38	.00	3.02	.00
5	1.01	.01	.00	.00	.00	.00	.00	.00	.19	.35	.01	.00
6	.01	.00	.00	.00	.95	.00	.00	.00	.00	.01	.31	.01
7	.00	.00	.00	.00	.09	2.49	.00	.00	.37	2.01	.03	.15
8	.00	.00	.00	.10	.00	.00	.00	.00	4.05	.09	.00	.00
9	.00	.00	.00	.00	.00	.00	1.20	.00	.20	.00	.26	.00
10	.00	.00	.00	.55	.50	.05	.31	.00	.00	.00	.05	.00
11	.00	.00	.00	.00	.00	.01	.00	.00	.01	.00	.06	.00
12	.00	.00	.91	.00	.86	.00	.00	.00	.00	.00	.22	2.22
13	.00	.21	.00	.00	1.42	.00	.00	.00	.27	.00	.52	.39
14	.42	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.56
15	.00	.21	.00	.00	.00	1.59	.10	.00	.00	.00	.00	.01
16	.00	.00	.05	.00	.99	1.06	.00	.00	.01	.00	.00	.55
17	.00	.00	.00	.00	.08	.17	.01	.02	.00	.00	.28	.05
18	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00	.04
19	.00	.00	.00	.00	.01	.00	.67	.00	.00	.11	.03	.00
20	.00	.00	.00	.80	.01	.09	.00	.00	.06	.00	.00	.10
21	.00	.00	.00	.37	.00	.00	.00	.00	.06	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.33	.00	.00	.05	.00	.00	.41	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.66	.00	.00	1.29	.06	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.46	.00	.21	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.43	.03	.11	.00
27	.00	.00	.00	.23	.38	1.79	.00	.00	.02	.03	.01	.00
28	.00	.00	.00	.00	.17	.00	.00	.00	.00	.32	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.31	.02	1.07	.00
30	.00	.00	.00	.00	---	.00	.00	2.07	.10	.50	.22	.00
31	.00	---	.00	.00	---	.34	---	.01	---	.05	.01	---
TOTAL	4.23	1.31	.96	2.10	7.54	8.28	3.23	2.28	8.21	5.65	8.03	7.99
CAL YR 1982	TOTAL	54.06										
WTR YR 1983	TOTAL	59.81										

280314082103301 DIAMOND "G" RAIN GAGE NEAR THONOTOSASSA, FL

RAINFALL, ACCUMULATED (INCHES)												
SUM												
WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	1.16	.00
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.59	.01	.00
3	.00	.00	.00	.00	.03	.00	.00	.00	.00	.58	.05	.00
4	.00	.00	.00	.00	.01	.00	2.40	.00	.00	.02	.01	.21
5	.00	.00	.00	.00	.00	.00	.00	.02	.00	.17	.06	.41
6	.00	.00	1.07	.00	.00	.01	.00	.22	.00	.02	.01	.02
7	.00	.35	.00	.00	.00	.04	.00	.01	.00	.01	1.50	.03
8	.12	.23	.00	.00	.00	.00	.00	.00	.01	.04	.01	.01
9	.02	.00	.00	.00	.00	.00	.09	1.10	.00	1.27	.01	.02
10	.01	.01	.00	.77	.00	.00	.01	.01	.05	.02	.02	.00
11	.02	.01	.29	.00	.00	.00	.00	.00	.01	.01	.20	.01
12	.00	.00	.79	.03	.00	.57	.00	.00	.01	.02	.05	.00
13	.22	.00	.00	.17	.37	.18	.45	.00	.03	1.25	.02	.01
14	1.04	.00	1.01	.00	.00	.00	.43	.00	.01	.03	.05	.01
15	.06	.06	.74	.00	.00	.00	.12	.00	.03	.18	.00	.00
16	.02	.32	.00	.00	.00	.00	.00	.00	.11	.01	.00	.00
17	.29	.00	.61	.00	.00	.00	.00	.00	1.60	.46	.01	.01
18	.00	.00	.00	.00	.00	.00	.00	.00	.02	.22	.00	.35
19	.00	.00	.27	.53	.00	.00	.00	.00	.01	.20	.05	.07
20	.00	1.23	.06	.11	.11	.30	.00	.00	.02	.01	.64	.00
21	.00	.00	.00	.04	1.22	.01	.05	.00	.01	.03	1.18	.00
22	.03	.01	.00	.00	.31	.00	.00	.30	.00	1.05	.01	.01
23	.00	.00	.00	.00	.01	.41	.09	1.30	.42	.00	.01	.02
24	.30	.15	.00	.00	.00	.00	.00	.16	.56	.57	.56	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.05	.04	1.76	.01
26	.00	.01	.00	.00	.00	.49	.20	.35	.06	.47	.01	.01
27	.00	.00	.00	.00	.83	.00	.00	.01	.01	.01	.05	2.42
28	.00	.01	.00	.00	.02	.00	.00	.01	.32	.00	.00	.35
29	.00	.00	2.33	.00	.01	.00	.00	1.89	.58	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.01	.00	.27	.37	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.26	.00	---
TOTAL	2.13	2.39	7.18	1.65	2.92	2.01	3.85	5.38	4.19	7.97	7.44	3.98
CAL YR 1983	TOTAL	65.01										
WTR YR 1984	TOTAL	51.09										

280352082124801 SWINDLE RAIN GAGE NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°03'52", long 82°12'48", in NW1/4 sec.9, T.28 S., R.21 E., Hillsborough County, in Campbell Branch watershed, near private road and residence, 0.2 mi east of Cooper Road, 0.8 mi south of Knights Road, and 5.7 mi east of Thonotosassa.

PERIOD OF RECORD.--June 1981 to September 1984 (daily totals and 15-minute rainfall interval unit values). Discountinued.

EXTREMES FOR PERIOD OF RECORD.--June 11 to Sept. 30, 1981: Maximum 15-minute rainfall, 0.93 in July 6 (2000 hours).

Water Year 1982: Maximum 15-minute rainfall, 1.49 in July 23 (1800 hours).

Water Year 1983: Maximum 15-minute rainfall, 2.29 in Aug. 4 (1945 hours).

Water Year 1984: Maximum 15-minute rainfall, 1.29 in Aug. 25 (2130 hours).

REMARKS.--No unit values of rainfall Aug. 29 to Sept. 14, Dec. 9-13, 1982, Apr. 4-19, June 27 to July 11, Sept. 16-20, Oct. 8-24, Dec. 6-31, 1983, Jan. 1-11, July 2-23, 1984, daily totals estimated.

DAY	RAINFALL, ACCUMULATED (INCHES)					WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981						
	SUM					VALUES						
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	.00	1.37	.01
2									---	.00	.05	.00
3									---	.00	.02	.44
4									---	.00	1.02	.56
5									---	.00	.00	.04
6									---	1.18	.00	1.51
7									---	.01	.78	.35
8									---	.72	.00	.04
9									---	.00	.09	.74
10									---	.00	.00	.05
11									1.45	.02	.00	.18
12									.01	.11	.00	.00
13									.00	.09	.16	.00
14									.00	.04	.00	.00
15									.00	.00	.00	.00
16									.00	.00	.00	.78
17									.09	.00	.00	.73
18									1.10	.00	.03	.85
19									.00	.69	.00	.00
20									.05	.07	2.50	.00
21									.01	.01	.29	.00
22									.00	.01	.49	.01
23									.99	1.33	.22	.00
24									.05	.00	.38	.00
25									.01	.23	.02	.00
26									.26	.02	.05	.00
27									.02	.00	.88	.00
28									.07	.00	.69	.00
29									.00	.04	.61	.00
30									.00	.14	.25	.00
31									---	.92	.30	---
TOTAL									---	5.63	10.20	6.29

280352082124801 SWINDLE RAIN GAGE NEAR THONOTOSASSA, FL

RAINFALL, ACCUMULATED (INCHES)												
SUM												
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982												
VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.01	.00	.05	.00	.00	.08
2	.00	.00	.27	.13	.00	.00	.00	.00	.02	.03	.02	.00
3	.00	.00	.00	.00	.14	.00	.01	.00	.11	.00	.00	.02
4	.00	.18	.00	.33	.00	.01	.00	.00	.01	.55	.00	.01
5	.00	.04	.00	.00	.04	.11	.00	.00	.00	.50	.80	.26
6	.00	.00	.00	.00	.00	1.40	.00	.00	.00	.02	.00	.01
7	.00	.00	.00	.00	.00	.15	.00	.00	.00	.32	.26	1.55
8	.00	.00	.00	.02	.00	.00	.00	.00	.00	.02	.00	.40
9	.00	.01	.00	.00	.01	.01	.94	.00	.00	.00	.00	.05
10	.00	.68	.00	.00	.00	.00	.08	.00	.00	.00	.00	.55
11	.00	.00	.00	.00	.00	.00	.97	.00	2.05	.00	.00	.01
12	.00	.00	.00	.00	.04	.00	.00	.00	.09	.00	.00	.00
13	.00	.00	.00	.81	.01	.00	.00	.00	.01	.02	.00	.00
14	.00	.00	.00	.57	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.55	.00	2.10	.00	.00	.00	.00	.01	2.76	.00
16	.00	.00	.00	.00	.03	.00	.00	.00	.21	.77	.04	.00
17	.00	.14	.00	.00	.84	.00	.00	.01	1.56	.06	.00	.00
18	.00	.00	.00	.00	.01	.00	.00	.00	1.76	.50	.10	.22
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.58
20	.00	.12	.00	.00	.00	.00	.00	.00	.22	1.20	.06	.23
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.82	.22
22	.00	.00	.00	.00	.00	.00	.95	.00	.00	.02	.01	.52
23	.00	.00	.00	.00	.00	.00	.00	1.48	.00	4.00	.01	.00
24	.81	.00	.00	.03	.00	1.00	.23	.04	.09	1.11	.00	.01
25	.00	.00	.15	.00	.00	.01	.24	.01	1.11	.94	.08	.58
26	.00	.00	1.73	.00	.00	.00	.34	.14	.20	.00	.79	1.08
27	.17	.00	1.36	.00	.00	.00	.00	1.39	.00	.63	.05	.00
28	.00	.00	.00	.00	.00	1.50	.01	.08	.00	.00	.20	.00
29	.00	.00	.00	.00	---	.07	.00	.01	.00	.62	.20	.00
30	.07	.00	.00	.00	---	.00	.00	1.39	.00	.00	.01	.00
31	.01	---	.03	.00	---	.01	---	.41	---	.00	.01	---
TOTAL	1.06	1.17	4.09	1.89	3.22	4.27	3.78	4.96	7.49	11.37	6.36	6.38
WTR YR 1982 TOTAL		56.04										

280352082124801 SWINDLE RAIN GAGE NEAR THONOTOSASSA, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.93	.00	.00	.00	.00	.09	.00	.00	.00	.60	.01	.81
2	.02	.24	.00	.00	1.72	.00	.53	.00	.29	2.50	1.07	3.11
3	.00	.47	.00	.00	.01	.00	.00	.00	.00	.00	.00	.80
4	.00	.55	.00	.00	.00	.00	.00	.25	1.36	.00	2.66	.00
5	.84	.01	.00	.00	.00	.00	.00	.00	.36	.30	.00	.08
6	.02	.00	1.02	.00	1.00	.00	.00	.00	.01	.09	.48	.02
7	.00	.00	.00	.00	.08	2.58	.00	.00	.36	2.00	.07	.07
8	.01	.00	.00	.24	.01	.00	.00	.00	3.20	.30	.07	.01
9	.00	.00	.00	.00	.00	.00	1.15	.00	.36	.00	.40	.00
10	.00	.00	.00	.15	.58	.05	.60	.00	.00	.00	.01	.01
11	.25	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
12	.00	.00	.03	.00	.98	.00	.00	.00	.00	.00	.35	1.45
13	.00	.22	.00	.00	1.31	.00	.00	.00	.54	.00	.38	.12
14	.57	.00	.00	.00	.00	.01	.00	.00	.00	.00	.03	.39
15	.00	.13	.00	.00	.00	1.81	.10	.00	.00	.00	.00	.00
16	.00	.00	.11	.00	1.19	.57	.00	.00	.00	.00	.03	.19
17	.00	.00	.00	.00	.09	.17	.00	.05	.00	.00	.02	.05
18	.00	.00	.00	.00	.00	.02	.02	.00	.00	.01	.00	.05
19	.00	.00	.00	.00	.13	.00	.50	.00	.00	.35	.03	.90
20	.00	.00	.00	.87	.00	.00	.00	.00	.06	.04	.00	.80
21	.00	.00	.00	.43	.00	.00	.00	.00	.07	.00	.05	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00
23	.33	.00	.00	.06	.01	.00	.45	.00	.01	.00	.00	.00
24	.00	.00	.00	.00	.00	.71	.00	.00	1.04	.01	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.27	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.52	.00	.24	.00
27	.00	.00	.00	.19	.34	1.83	.00	.00	.25	.04	.00	.00
28	.00	.00	.00	.00	.18	.00	.00	.00	.00	.01	.00	.00
29	.00	.00	.00	.00	---	.01	.00	.00	.20	.03	1.29	.00
30	.00	.00	.00	.00	---	.00	.00	1.98	.10	.56	.20	.00
31	.00	---	.00	.00	---	.45	---	.00	---	.02	.03	---
TOTAL	3.97	1.62	1.16	1.94	7.63	8.30	3.35	2.28	8.76	6.87	7.70	8.86
CAL YR 1982	TOTAL											
WTR YR 1983	TOTAL											
		56.47										
		62.44										

280352082124801 SWINDLE RAIN GAGE NEAR THONOTOSASSA, FL

RAINFALL, ACCUMULATED (INCHES)						WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984						
SUM						VALUES						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	1.33	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00
3	.00	.00	.00	.00	.03	.00	.00	.00	.00	.50	.02	.00
4	.00	.00	.00	.00	.00	.00	1.40	.00	.00	.02	.07	.37
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.10
6	.00	.00	.70	.00	.00	.11	.00	.40	.00	.00	.00	.01
7	.00	.32	.00	.00	.00	.00	.00	.00	.00	.20	.37	.00
8	.05	.04	.00	.00	.00	.01	.00	.00	.00	.02	.00	.00
9	.00	.00	.00	.00	.00	.00	.09	1.03	.00	1.15	.00	.00
10	.35	.02	.00	.70	.00	.00	.00	.01	.03	.10	.00	.00
11	.03	.04	.20	.00	.00	.00	.00	.00	.00	.20	.22	.00
12	.00	.00	.80	.01	.00	.56	.00	.00	.00	.06	.00	.00
13	.20	.00	.00	.19	.94	.13	.25	.00	.33	1.25	.00	.00
14	.60	.00	1.00	.00	.00	.00	.46	.00	.00	.02	.00	.00
15	.05	.07	.64	.00	.00	.00	.12	.00	.01	.50	.00	.00
16	.03	.22	.00	.00	.00	.00	.00	.00	.03	.01	.00	.00
17	.15	.00	.30	.00	.01	.00	.00	.00	3.23	.50	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40	.00	.56
19	.00	.00	.35	.77	.00	.00	.00	.00	.00	.50	.18	.12
20	.00	2.01	.10	.20	.20	.23	.00	.00	.03	.60	.56	.00
21	.00	.00	.00	.02	.83	.00	.02	.00	.00	.80	1.40	.00
22	.01	.00	.00	.00	.24	.00	.00	.28	.00	.90	.00	.00
23	.00	.00	.00	.00	.00	.45	.09	.25	.46	.05	.00	.00
24	.35	.20	.00	.00	.00	.00	.00	.04	.21	.79	.01	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.19	.01	2.74	.00
26	.00	.00	.00	.00	.00	.36	.05	.08	.29	.60	.01	.00
27	.00	.00	.00	.00	.94	.00	.01	.00	.00	.00	.00	2.79
28	.00	.04	.02	.00	.04	.00	.00	.01	.03	.00	.00	.53
29	.00	.02	1.95	.00	.00	.00	.00	.98	.82	.01	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.01	.49	.30	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.76	.00	---
TOTAL	1.82	2.98	6.06	1.89	3.23	1.85	2.49	3.09	6.15	11.06	6.91	4.48
CAL YR 1983 TOTAL			66.55									
WTR YR 1984 TOTAL			52.01									

Appendix 5.--Hydrologic Data for Brooker Creek Watershed

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307200 BROOKER CREEK AT VAN DYKE ROAD NEAR CITRUS PARK, FL

LOCATION.--Lat 28°07'34", long 82°34'14", in NE1/4 sec.23, T.27 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, at left wingwall on downstream side of box culverts on State Highway 685A (Van Dyke Road), 0.3 mi east of State Highway 587, and 3.4 mi north of Citrus Park.

DRAINAGE AREA.--5.01 mi².

PERIOD OF RECORD.--April 1981 to September 1984. Continued.

GAGE.--Water-stage recorder. Datum of gage is 30.72 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair prior to February 1984, and poor thereafter.

EXTREMES FOR PERIOD OF RECORD.--Apr. 9 to Sept. 30, 1981: Maximum discharge, 23 ft³/s Aug. 30, 31, gage height, 19.72 ft; no flow for many days; creek dry at gage May 18 to June 4, June 16-19.

Water Year 1982: Maximum discharge, 53 ft³/s Sept. 26, 27, gage height, 20.39 ft; no flow for many days; minimum gage height, 17.46 ft May 26.

Water Year 1983: Maximum discharge, 37 ft³/s Feb. 17, gage height, 19.89 ft; maximum gage height, 19.98 ft Oct. 1; no flow May 23-29; minimum gage height, 17.46 ft May 22.

Water Year 1984: Maximum discharge, 30 ft³/s Dec. 29-31, gage height, 19.96 ft; no flow for many days; minimum gage height, 17.36 ft May 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.00	.00	.05	.33	20
2							---	.00	.00	.01	.32	18
3							---	.00	.00	.00	.46	15
4							---	.00	.00	.00	.40	13
5							---	.00	.00	.00	.54	11
6							---	.00	.00	.00	.38	9.6
7							---	.00	.00	.00	.28	8.3
8							---	.00	.00	.00	.24	6.9
9							.55	.00	.00	.00	.15	6.7
10							.50	.00	.00	.00	.09	7.7
11							.41	.00	.00	.00	.24	9.6
12							.33	.00	.00	.00	2.7	8.6
13							.25	.00	.00	.00	4.5	7.3
14							.16	.00	.00	.00	3.2	6.7
15							.09	.00	.00	.00	1.9	6.6
16							.05	.00	.00	.00	1.5	6.9
17							.02	.00	.00	.00	.90	11
18							.01	.00	.00	.00	.69	15
19							.00	.00	.00	.00	.55	15
20							.00	.00	.00	.00	1.8	13
21							.00	.00	.00	.42	15	12
22							.00	.00	.00	.70	17	15
23							.00	.00	.00	.65	12	17
24							.00	.00	.00	1.1	3.6	15
25							.00	.00	.00	.77	11	14
26							.00	.00	.00	.73	8.7	12
27							.00	.00	.06	1.0	7.3	9.6
28							.00	.00	.34	1.0	20	8.5
29							.00	.00	.30	.72	20	7.4
30							.00	.00	.16	.53	23	6.2
31							---	.00	---	.45	22	---
TOTAL							---	.00	.36	8.13	186.98	334.0
MEAN							---	.000	.029	.25	6.03	11.1
MAX							---	.00	.34	1.1	23	20
MIN							---	.00	.00	.00	.09	6.2
CFSM							---	.000	.006	.05	1.20	2.22
IN.							---	.00	.01	.06	1.39	2.48
AC-FT							---	.00	1.7	16	371	662
DAYS	0	0	0	0	0	0	22	31	30	31	31	30

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307200 BROOKER CREEK AT VAN DYKE ROAD NEAR CITRUS PARK, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

JAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	5.4	.25	.00	.71	2.2	1.0	3.3	1.7	.67	17	13	6.9	
2	4.8	.21	.00	.78	2.1	.93	3.0	1.5	.56	14	12	5.9	
3	4.3	.18	.00	1.8	2.2	.86	2.8	1.3	7.0	12	11	5.1	
4	3.7	.15	.00	1.7	3.1	.77	2.7	1.1	6.2	11	9.1	4.5	
5	3.4	.31	.00	1.6	2.6	.84	2.4	.92	2.8	9.2	8.0	4.5	
6	3.0	.39	.00	1.3	2.2	1.4	2.2	.75	1.7	8.6	7.4	6.8	
7	2.7	.34	.00	1.2	2.1	1.7	2.0	.60	1.2	7.8	7.0	11	
8	2.5	.28	.00	1.1	2.1	1.5	1.8	.51	.85	7.6	11	23	
9	2.2	.21	.00	1.2	1.8	1.3	2.5	.43	.65	9.9	21	31	
10	2.1	.23	.00	1.1	1.8	1.2	3.5	.34	.53	10	19	28	
11	1.9	.30	.00	1.0	1.6	1.1	9.6	.24	.43	10	30	25	
12	1.7	.26	.00	.92	1.6	9.9	8.2	.16	.48	10	30	21	
13	1.5	.20	.00	1.6	1.5	9.1	5.8	.10	1.5	11	27	18	
14	1.3	.16	.00	5.3	1.4	8.2	5.0	.05	1.2	13	27	15	
15	1.2	.12	.00	5.4	1.3	7.2	4.5	.02	.81	15	33	12	
16	1.0	.08	.00	4.2	1.4	6.4	4.0	.01	2.1	15	28	10	
17	.90	.07	.00	4.1	2.5	5.7	3.5	.01	5.4	18	24	8.6	
18	.84	.05	.00	4.2	3.0	5.1	3.1	.00	45	37	21	7.3	
19	.76	.03	.00	4.1	2.4	4.6	2.7	.00	49	35	27	6.2	
20	.65	.03	.00	4.0	2.0	4.1	2.4	.00	40	31	26	5.4	
21	.56	.03	.00	4.0	1.8	3.6	2.0	.00	40	29	22	8.6	
22	.50	.02	.00	3.9	1.6	3.3	1.7	.00	41	25	20	19	
23	.44	.01	.00	3.7	1.4	2.8	1.4	.00	38	22	19	19	
24	.39	.01	.00	3.5	1.3	2.7	1.9	.00	40	18	17	18	
25	.37	.01	.00	3.3	1.2	5.9	2.8	.00	39	15	15	16	
26	.34	.00	.00	3.2	1.2	4.3	5.6	.00	37	13	14	49	
27	.34	.00	1.6	2.9	1.1	3.1	4.3	.00	33	11	13	51	
28	.35	.00	2.4	2.7	1.1	3.4	3.0	.00	28	10	12	44	
29	.34	.00	1.5	2.6	---	7.3	2.4	.00	23	9.6	11	36	
30	.32	.00	.95	2.5	---	5.4	2.0	.00	20	9.3	9.8	30	
31	.23	---	.73	2.4	---	4.0	---	.25	---	13	8.2	---	
TOTAL	50.08	3.93	7.18	82.01	51.6	192.50	102.1	9.99	507.08	477.0	552.5	545.8	
MEAN	1.62	.13	.23	2.65	1.84	6.21	3.40	.32	16.9	15.4	17.8	18.2	
MAX	5.4	.39	2.4	5.4	3.1	17	9.6	1.7	49	37	33	51	
MIN	.28	.00	.00	.71	1.1	.77	1.4	.00	.43	7.6	7.0	4.5	
CFSM	.32	.03	.05	.53	.37	1.24	.68	.06	3.37	3.07	3.55	3.63	
IN.	.37	.03	.05	.61	.38	1.43	.76	.07	3.76	3.54	4.10	4.05	
AC-FT	99	7.8	14	163	102	382	203	20	1010	946	1100	1080	
DAYS	31	30	31	31	28	31	30	31	30	31	31	30	
WTR YR 1982	TCTAL	2581.77	MEAN	7.07	MAX	51	MIN	.00	CFSM	1.41	IN	19.17	
									AC-FT	5120		DAYS	365

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307200 BROOKER CREEK AT VAN DYKE ROAD NEAR CITRUS PARK, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	25	2.3	.63	.13	.69	9.0	8.2	2.7	.63	2.6	.87	1.7				
2	22	2.2	.61	.12	9.0	8.2	9.5	2.5	.38	1.8	1.6	12				
3	19	2.1	.59	.11	8.6	7.5	17	2.2	.22	2.0	1.4	18				
4	16	2.9	.56	.10	5.7	6.9	16	2.2	.13	7.1	1.8	20				
5	14	3.7	.51	.08	5.5	6.4	15	2.2	.07	4.3	1.8	16				
6	14	2.7	.48	.08	7.4	6.0	12	1.7	.04	3.5	1.9	14				
7	12	2.5	.44	.06	12	11	10	1.5	.09	2.6	2.0	11				
8	11	2.3	.40	.05	10	23	9.5	1.3	1.7	2.4	1.9	9.1				
9	9.8	2.2	.35	.04	9.3	18	9.7	1.1	2.2	2.3	2.4	7.4				
10	8.7	2.0	.32	.04	11	16	15	.92	1.5	2.5	2.7	5.1				
11	7.8	1.9	.29	.03	14	13	13	.75	.90	1.8	2.0	5.1				
12	7.4	1.8	.73	.02	14	12	11	.60	.59	1.3	1.6	4.8				
13	6.5	1.9	.93	.02	31	10	9.8	.48	.44	1.0	1.6	6.3				
14	7.3	1.8	.67	.01	35	9.5	8.8	.36	.43	.82	1.6	7.8				
15	8.3	1.6	.55	.01	32	11	9.0	.25	.58	.67	1.4	11				
16	6.7	1.4	.66	.01	32	17	8.4	.18	.45	.54	1.2	10				
17	5.7	1.4	.69	.01	36	17	7.6	.13	.30	.40	1.0	8.8				
18	5.0	1.3	.55	.01	32	15	6.9	.10	.19	.27	.83	9.8				
19	4.5	1.3	.44	.01	27	13	7.6	.06	.12	.19	.69	12				
20	4.1	1.2	.41	.06	23	11	7.2	.03	.08	.15	.59	14				
21	3.7	1.1	.35	.93	20	9.6	6.5	.01	.07	.12	.84	13				
22	3.4	1.1	.31	1.6	17	8.4	5.9	.01	.32	.15	2.1	11				
23	3.9	.97	.28	1.1	15	7.6	5.7	.00	.65	.20	1.7	9.3				
24	4.6	.95	.25	.81	13	11	5.7	.00	.60	.20	1.8	7.9				
25	4.1	.88	.24	.63	11	11	5.0	.00	1.5	.16	2.7	6.7				
26	3.6	.82	.22	.53	9.9	9.5	4.5	.00	2.9	.11	2.5	5.6				
27	3.3	.79	.20	.64	9.4	8.4	4.2	.00	1.7	.11	2.0	4.7				
28	3.0	.74	.19	1.0	9.2	7.7	3.7	.00	2.1	.09	1.7	4.1				
29	2.7	.72	.18	.86	---	6.7	3.4	.00	1.4	.06	1.7	3.6				
30	2.6	.65	.16	.76	---	6.0	3.0	.07	1.2	.10	1.7	3.3				
31	2.5	---	.15	.73	---	8.6	---	.82	---	.40	1.4	---				
TOTAL	252.2	49.22	13.34	10.59	459.69	335.0	258.8	22.17	23.48	39.94	51.02	274.1				
MEAN	8.14	1.64	.43	.34	16.4	10.8	8.63	.72	.78	1.29	1.65	9.14				
MAX	25	3.7	.93	1.6	36	23	17	2.7	2.9	7.1	2.7	20				
MIN	2.5	.65	.15	.01	.69	6.0	3.0	.00	.04	.06	.59	1.7				
CFSM	1.63	.33	.09	.07	3.27	2.16	1.72	.14	.16	.26	.33	1.82				
IN.	1.87	.37	.10	.08	3.41	2.49	1.92	.16	.17	.30	.38	2.03				
AC-FT	500	98	26	21	912	664	513	44	47	79	101	544				
DAYS	31	30	31	31	26	31	30	31	30	31	31	30				
CAL YR 1982	TOTAL	2835.34	MEAN	7.77	MAX	51	MIN	.00	CFSM	1.55	IN	21.05	AC-FT	3550	DAYS	365
WTR YR 1983	TOTAL	1789.55	MEAN	4.90	MAX	36	MIN	.00	CFSM	.98	IN	13.29	AC-FT	3550	DAYS	365

NOTE.--Record estimated Mar. 27 to Apr. 5, Sept. 16-19.

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

TAMPA BAY AND COASTAL AREAS

02307200 BROOKER CREEK AT VAN DYKE ROAD NEAR CITRUS PARK, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	2.8	.93	1.8	27	5.4	13	3.3	.93	.66	.66	11	3.5				
2	2.8	.83	1.7	25	5.1	11	3.0	.75	.51	.53	11	3.4				
3	2.4	.74	1.6	22	4.8	10	2.8	.59	.40	1.2	9.7	3.6				
4	2.1	.68	1.6	20	4.7	9.6	12	.44	.32	2.1	9.2	3.0				
5	1.9	.63	1.6	18	4.5	8.8	16	.34	.23	2.8	8.7	2.6				
6	1.7	.62	1.9	16	4.1	8.1	12	.24	.15	6.0	7.9	2.6				
7	1.6	.66	3.2	14	3.8	7.5	9.8	.18	.10	4.7	7.3	2.4				
8	1.4	.86	2.4	13	3.6	6.7	8.7	.12	.06	4.1	6.9	2.0				
9	1.6	.89	2.0	11	3.5	6.0	8.1	.12	.03	3.6	6.2	1.7				
10	1.4	.81	1.8	13	3.3	5.5	7.8	.08	.01	3.4	5.4	1.6				
11	2.5	.71	1.8	16	3.0	5.1	6.9	.05	.00	3.9	5.4	1.4				
12	2.5	.60	7.0	15	2.8	5.0	6.2	.02	.00	7.3	5.9	1.2				
13	2.4	.50	5.5	15	4.4	7.8	5.5	.01	.00	6.0	5.4	1.1				
14	5.0	.43	4.3	14	6.2	6.6	5.1	.00	.24	6.0	4.9	.93				
15	2.6	.38	5.1	13	4.4	5.9	5.2	.00	2.8	4.7	4.8	.77				
16	2.4	.42	4.8	12	4.0	5.4	5.6	.00	3.6	3.8	4.5	.63				
17	2.2	.39	9.1	11	3.7	5.0	4.6	.00	2.5	3.6	4.2	.56				
18	2.1	.33	17	11	3.5	4.6	4.1	.00	2.4	3.0	4.1	.47				
19	2.3	.28	15	13	3.4	4.4	3.6	.00	1.7	2.6	3.9	.40				
20	2.4	.92	15	13	3.4	4.1	3.4	.00	1.2	2.4	4.3	.35				
21	2.3	3.1	14	12	3.9	3.9	2.9	.00	.78	2.2	6.9	.30				
22	2.3	2.2	13	11	9.7	3.5	2.7	.00	.53	1.8	10	.24				
23	2.2	1.6	11	10	8.2	3.7	2.5	.02	.51	1.6	9.9	.19				
24	2.2	1.5	10	9.4	7.0	3.8	2.5	.06	.67	2.2	9.4	.14				
25	2.0	1.7	3.8	8.6	6.7	3.4	2.1	.06	.52	3.6	8.7	.11				
26	1.7	1.5	7.8	8.1	6.3	3.5	2.0	.12	.65	4.1	8.0	.07				
27	1.5	1.4	7.2	7.6	8.4	5.1	2.1	.53	1.1	10	7.1	.04				
28	1.3	1.6	7.0	7.0	15	4.4	1.7	2.3	.72	8.0	6.1	1.6				
29	1.2	2.1	21	6.6	13	4.1	1.4	1.6	.61	6.9	5.2	2.2				
30	1.1	1.9	30	6.1	---	3.7	1.2	1.1	.64	8.9	4.5	1.3				
31	1.0	---	29	5.7	---	3.5	---	.88	---	10	3.9	---				
TOTAL	64.9	31.21	263.0	404.1	159.8	182.7	154.8	10.54	23.64	131.69	210.4	40.40				
MEAN	2.09	1.04	8.48	13.0	5.51	5.89	5.16	.34	.79	4.25	6.79	1.35				
MAX	5.0	3.1	30	27	15	13	16	2.3	3.6	10	11	3.6				
MIN	1.0	.28	1.6	5.7	2.8	3.4	1.2	.00	.00	.53	3.9	.04				
CFSM	.42	.21	1.69	2.60	1.10	1.18	1.03	.07	.16	.85	1.36	.27				
IN.	.43	.23	1.95	3.00	1.19	1.36	1.15	.08	.18	.98	1.56	.30				
AC-FT	129	62	522	802	317	362	307	21	47	261	417	80				
DAYS	31	30	31	31	29	31	30	31	30	31	31	30				
CAL YR 1983	TOTAL	1833.90	MEAN	5.02	MAX	36	MIN	.00	CFSM	1.00	IN	13.62	AC-FT	3640	DAYS	365
WTR YR 1984	TOTAL	1677.18	MEAN	4.59	MAX	30	MIN	.00	CFSM	.91	IN	12.45	AC-FT	3330	DAYS	366

NOTE.--Record estimated Oct. 20-23.

280745082335801 BROOKER CREEK CHURCH RAIN GAGE NEAR CITRUS PARK, FL

LOCATION.--Lat 28°07'45", long 82°33'45", in SW1/4 sec.13, T.27 S., R.17 E., Hillsborough County, in Brooker Creek watershed, at Brooker Creek Church on north side of State Highway 685A, 0.6 mi east of State Highway 587, and 3.5 mi north of Citrus Park.

PERIOD OF RECORD.--April 1981 to September 1984 (daily totals and 15-minute interval unit values). Continued.

GAGE.--Digital recorder with 8-inch diameter receiving funnel and 3-inch diameter collector pipe.

EXTREMES FOR PERIOD OF RECORD.--Apr. 27 to Sept. 30, 1981: Maximum 15-minute rainfall, 1.11 in Aug. 20 (1815 hours).

Water Year 1982: Maximum 15-minute rainfall, 0.94 in Sept. 21 (1200 hours).

Water Year 1983: Maximum 15-minute rainfall, 0.93 in July 3 (1745 hours).

Water Year 1984: Maximum 15-minute rainfall, 1.01 in June 14 (1615 hours).

REMARKS.--No unit values of rainfall Mar. 24-30, Nov. 16 to Dec. 12, 1982, May 23 to June 14, 1983; daily totals estimated.

DAY	RAINFALL, ACCUMULATED (INCHES)					WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981						
	SUM					VALUES						
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.00	.00	.00	.03	.00
2							---	.00	.14	.00	.61	.00
3							---	.00	.16	.00	.00	.00
4							---	.00	2.37	.00	.47	.00
5							---	.00	.36	.00	.01	.00
6							---	.00	.06	.00	.00	.00
7							---	.00	.00	.11	.19	.00
8							---	.00	.02	.14	.02	.00
9							---	.00	.00	.59	.04	.41
10							---	.00	.00	.00	.01	.72
11							---	.00	.77	.01	1.79	.02
12							---	.00	.00	.23	.81	.00
13							---	.00	.00	.00	.02	.13
14							---	.00	.00	.00	.03	.00
15							---	.00	.00	.00	.03	.01
16							---	.00	.00	.00	.00	.80
17							---	.00	.00	1.62	.01	.86
18							---	.00	.02	.01	.00	.21
19							---	.00	.96	.01	.38	.00
20							---	.38	1.79	1.68	2.70	.00
21							---	.00	.14	.26	1.32	.83
22							---	.00	.00	.01	.02	.43
23							---	.00	.54	.90	.06	.00
24							---	.00	.54	.00	1.40	.00
25							---	.00	.00	.29	.02	.00
26							---	.92	1.56	.70	.06	.00
27							.01	.03	.09	.29	1.63	.00
28							.00	.00	.00	.07	.74	.00
29							.00	.00	.00	.01	.46	.00
30							.00	.00	.00	.23	.03	.00
31							.00	.00	---	.00	.00	---
TOTAL							---	1.33	9.52	7.16	12.89	4.42

280745082335801 BROOKER CREEK CHURCH RAIN GAGE NEAR CITRUS PARK, FL

RAINFALL, ACCUMULATED (INCHES)												
SUM												
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982												
VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.14	.01	.39	.00
2	.00	.00	.20	.69	.00	.00	.00	.00	1.60	.00	.03	.00
3	.00	.00	.00	.00	.50	.00	.00	.00	1.48	.00	.10	.00
4	.00	.09	.00	.29	.00	.00	.00	.00	.01	.00	.10	.00
5	.00	.47	.00	.00	.00	1.26	.00	.00	.00	.30	.10	.72
6	.00	.00	.00	.00	.00	2.04	.00	.00	.00	.07	.00	1.01
7	.00	.00	.00	.00	.00	.55	.00	.00	.00	.14	.89	1.54
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.80	1.80	.89
9	.00	.00	.00	.00	.00	.00	.52	.00	.00	.01	.00	.01
10	.00	.34	.00	.00	.00	.00	.59	.00	.00	.00	1.68	.00
11	.00	.00	.00	.00	.00	.00	1.05	.00	.01	.05	.05	.00
12	.00	.00	.00	.00	.03	.00	.00	.00	.91	.15	.00	.00
13	.00	.00	.00	1.16	.00	.00	.00	.00	.00	.69	.01	.00
14	.00	.00	.00	.77	.00	.00	.00	.00	.00	.70	1.36	.00
15	.00	.00	.76	.00	.08	.00	.00	.00	.93	.20	.04	.00
16	.00	.00	.00	.00	.01	.00	.00	.00	.73	.04	.04	.00
17	.00	.14	.00	.00	.80	.00	.00	.00	2.99	2.18	.00	.00
18	.00	.00	.00	.00	.01	.00	.00	.00	2.78	.00	.66	.01
19	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.89	.00
20	.00	.27	.00	.00	.00	.00	.00	.00	.00	.57	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	1.18	.00	.03	2.11
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.17	.60
23	.00	.00	.00	.00	.00	.00	.02	.28	.53	.00	.23	.00
24	.06	.00	.00	.01	.00	1.30	.45	.07	.27	.00	.00	.00
25	.00	.00	.39	.00	.00	.00	.84	.01	.63	.00	.00	1.40
26	.00	.00	1.31	.00	.00	.00	.23	1.29	.00	.00	.22	1.75
27	.00	.00	1.44	.00	.00	.00	.00	.21	.00	.23	.00	.00
28	.00	.00	.00	.00	.00	1.10	.00	.00	.00	.03	.27	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.15	.12	.00
30	.00	.00	.00	.00	---	.00	.00	1.18	.00	1.15	.00	.00
31	.00	---	.18	.00	---	.00	---	.53	---	.00	.00	---
TOTAL	.08	1.31	4.28	2.92	1.43	6.25	3.70	3.57	14.19	7.59	9.18	10.04
WTR YR 1982 TOTAL	64.54											

280745082335801 BROOKER CREEK CHURCH RAIN GAGE NEAR CITRUS PARK, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
 SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.00	.00	.00	.00	.10	.00	.00	.00	.05	.49	2.21
2	.00	.00	.00	.00	2.90	.00	1.20	.00	.00	.00	.13	.81
3	.00	.00	.00	.01	.00	.00	.00	.00	.00	1.64	.51	1.61
4	.08	.78	.00	.00	.00	.00	.00	.21	.00	.00	.29	.00
5	.41	.60	.00	.00	.00	.00	.00	.00	.00	.22	.37	.07
6	.01	.00	.00	.00	1.11	.00	.00	.00	.00	.00	.23	.00
7	.13	.00	.00	.00	.02	2.35	.00	.00	2.10	.03	.08	.02
8	.00	.00	.00	.00	.00	.00	.00	.00	.80	.09	.25	.00
9	.00	.00	.00	.00	.00	.00	.93	.00	.02	.44	.28	.00
10	.00	.00	.00	.00	.87	.03	.33	.00	.00	.00	.00	.00
11	.22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00
12	.00	.00	.55	.00	1.06	.00	.00	.00	.00	.00	.17	.60
13	.00	.15	.00	.00	1.19	.00	.00	.00	.30	.00	.09	.06
14	.86	.00	.00	.00	.02	.02	.10	.00	.40	.00	.11	1.22
15	.00	.00	.11	.00	.00	1.35	.00	.00	.00	.00	.01	.00
16	.00	.00	.19	.00	.84	.43	.00	.00	.00	.00	.03	.24
17	.00	.00	.00	.00	.25	.05	.00	.00	.00	.00	.00	.49
18	.00	.00	.00	.00	.00	.06	.13	.00	.00	.00	.00	.11
19	.00	.00	.00	.00	.00	.00	.20	.00	.00	.04	.04	1.06
20	.00	.00	.00	1.03	.00	.00	.00	.00	.08	.11	.00	.03
21	.00	.20	.00	1.10	.00	.00	.00	.00	.01	.34	.82	.20
22	.07	.00	.00	.01	.00	.00	.00	.00	1.28	.20	.03	.01
23	.52	.00	.00	.06	.00	.00	.18	.00	.24	.08	.00	.00
24	.00	.00	.00	.00	.00	1.09	.00	.00	.04	.00	.54	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	1.91	.00	.05	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.23	.24	.00	.00
27	.00	.00	.00	.38	.16	1.47	.00	.00	.46	.13	.00	.00
28	.00	.00	.00	.00	.11	.00	.00	.00	.19	.00	.01	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.17	.37	.15	.00
30	.00	.00	.00	.00	---	.00	.00	2.30	.41	.72	.00	.00
31	.00	---	.00	.01	---	.58	---	.10	---	.47	.00	---
TOTAL	2.33	1.13	.85	2.60	8.53	7.53	3.07	2.61	8.64	5.17	4.75	8.74
CAL YR 1982 TOTAL	63.18											
WTR YR 1983 TOTAL	55.95											

280745082335801 BROOKER CREEK CHURCH RAIN GAGE NEAR CITRUS PARK, FL

RAINFALL, ACCUMULATED (INCHES) SUM						WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984 VALUES						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40	.03
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.47	.00	.39
3	.00	.00	.00	.00	.03	.00	.03	.00	.00	.63	.07	.00
4	.00	.00	.00	.00	.02	.00	2.74	.00	.00	.06	.12	.00
5	.00	.03	.00	.00	.00	.00	.00	.00	.00	1.30	.00	.07
6	.00	.00	.72	.00	.00	.01	.00	.00	.00	.10	.00	.08
7	.00	.26	.00	.00	.00	.00	.00	.00	.00	.03	.11	.00
8	.16	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.17	.32	.00	.04	.00	.00
10	.32	.04	.00	1.01	.00	.00	.00	.00	.00	.00	.00	.00
11	.41	.01	.59	.00	.00	.00	.00	.00	.07	1.55	.39	.00
12	.00	.00	.92	.15	.00	.66	.00	.00	.01	.00	.00	.00
13	.11	.00	.00	.09	1.05	.16	.00	.00	.00	.70	.00	.00
14	.43	.00	.15	.00	.00	.00	.02	.00	2.95	.19	.19	.00
15	.81	.13	.18	.00	.00	.00	.34	.00	.98	.05	.01	.00
16	.01	.00	.00	.00	.00	.00	.00	.00	.01	.23	.00	.12
17	.16	.00	1.68	.01	.00	.00	.01	.00	.80	.01	.05	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.01
19	.00	.00	.17	.63	.00	.00	.01	.00	.00	.00	.09	.11
20	.00	1.50	.00	.07	.10	.06	.00	.00	.00	.00	.36	.00
21	.00	.01	.00	.06	1.03	.00	.00	.00	.00	.00	1.32	.00
22	.00	.00	.00	.00	.40	.00	.00	1.59	.00	.06	.00	.00
23	.00	.00	.00	.00	.01	.24	.06	.45	.39	.30	.00	.00
24	.17	.16	.01	.00	.00	.00	.00	.00	.09	.95	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.36	.00	.07	.00	.00
26	.00	.00	.00	.08	.00	.60	.27	.35	.86	1.69	.01	.00
27	.00	.00	.00	.00	1.43	.01	.00	1.46	.00	.01	.00	1.62
28	.00	.22	1.33	.01	.03	.00	.00	.01	.02	.00	.00	.85
29	.00	.05	1.83	.00	.00	.00	.00	.01	.30	.59	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.26	.49	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.25	.00	---
TOTAL	2.58	2.50	7.58	2.11	4.10	1.74	3.65	4.55	6.76	9.77	3.12	3.28
CAL YR 1983	TOTAL	64.30										
WTR YR 1984	TOTAL	51.74										

280931082333001 METZ RAIN GAGE NEAR CITRUS PARK, FL

LOCATION.--lat 28°09'31", long 82°33'30", in SE1/4 sec.1, T.27 S., R.17 E., Hillsborough County, in Brooker Creek watershed, near south side of Lutz-Lake Fern Road, 1.4 mi east of state Highway 587, and 5.6 mi north of Citrus Park.

PERIOD OF RECORD.--April 1981 to September 1984 (daily totals and 15-minute interval unit values). Continued.

GAGE.--Digital recorder with 8-inch diameter receiving funnel and 3-inch diameter collector pipe.

EXTREMES FOR PERIOD OF RECORD.--Apr. 27 to Sept. 30, 1981: Maximum 15-minute interval rainfall, 1.48 in June 26 (1800 hours).

Water Year 1982: Maximum 15 minute rainfall, 1.38 in July 17 (1630 hours).

Water Year 1983: Maximum 15-minute rainfall, 0.75 in July 20 (2115 hours) and Aug. 21 (1600 hours).

Water Year 1984: Maximum 15-minute rainfall, 0.72 in Feb. 21 (1815 hours).

REMARKS.--No unit values of rainfall June 16, 17, Nov. 12-30, 1981, Jan. 6, 1982; daily totals estimated.

DAY	RAINFALL, ACCUMULATED (INCHES)					WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1							---	.00	.00	.00	.02	.00	
2							---	.00	.52	.00	.40	.01	
3							---	.00	.22	.00	.00	.00	
4							---	.00	1.52	.00	.33	.00	
5							---	.00	.62	.00	.01	.00	
6							---	.00	.00	.00	.00	.01	
7							---	.01	.01	.03	.14	.07	
8							---	.00	.07	.02	.02	.00	
9							---	.00	.00	.02	.30	.40	
10							---	.00	.00	.00	.00	1.39	
11							---	.00	.24	.00	.78	.10	
12							---	.00	.00	.28	.33	.00	
13							---	.00	.01	.00	.02	.00	
14							---	.00	.00	.00	.00	.00	
15							---	.00	.00	.00	.00	.00	
16							---	.00	.00	.00	.00	.72	
17							---	.00	.00	1.69	.00	.76	
18							---	.00	.23	.02	.00	.24	
19							---	.00	1.63	.01	.13	.00	
20							---	.45	.41	.66	.99	.00	
21							---	.00	.13	.18	1.10	.70	
22							---	.00	.00	.01	.01	.15	
23							---	.00	.64	2.04	.00	.00	
24							---	.00	.15	.00	1.10	.00	
25							---	.00	.00	.40	.01	.00	
26							---	.82	1.88	.91	.04	.00	
27							.00	.03	.43	.28	1.29	.00	
28							.00	.01	.00	.06	.79	.00	
29							.01	.00	.01	.01	1.09	.00	
30							.01	.00	.00	.19	.01	.00	
31							---	.00	---	.02	.00	---	
TOTAL							---	1.32	8.72	6.83	8.91	4.55	

280931082333001 METZ RAIN GAGE NEAR CITRUS PARK, FL

RAINFALL, ACCUMULATED (INCHES)												
SUM												
WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.01	.00	.00	.00	.00	.22	.10	.54	.00
2	.00	.00	.01	.34	.00	.00	.00	.00	.20	.05	.00	.00
3	.00	.00	.01	.00	.52	.00	.00	.01	.88	.00	.05	.00
4	.00	.05	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
5	.00	.77	.00	.00	.00	1.61	.00	.00	.00	.00	.00	.22
6	.00	.00	.00	.00	.00	1.95	.00	.00	.01	.18	.00	.82
7	.00	.00	.00	.00	.00	.33	.00	.00	.00	.14	.48	1.93
8	.00	.00	.00	.02	.00	.00	.00	.00	.00	1.28	1.24	.72
9	.00	.00	.00	.00	.01	.00	.24	.00	.00	.25	.01	.01
10	.00	.30	.00	.00	.00	.00	.46	.00	.00	.00	2.68	.00
11	.00	.00	.00	.00	.00	.00	1.07	.00	.00	.10	.04	.00
12	.00	.00	.01	.00	.02	.00	.00	.00	1.44	.00	.00	.00
13	.00	.00	.02	1.06	.00	.00	.00	.00	.00	1.32	.10	.00
14	.00	.00	.00	1.03	.00	.00	.00	.00	.00	.34	.23	.00
15	.00	.00	.45	.00	.05	.00	.00	.00	.49	.31	.07	.00
16	.00	.00	.00	.00	.01	.00	.00	.01	.50	.32	.14	.00
17	.00	.04	.00	.02	.85	.00	.00	.02	2.85	2.99	.00	.00
18	.00	.00	.00	.00	.01	.00	.00	.00	2.61	.01	.73	.00
19	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.70	.02
20	.00	.15	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00
21	.30	.00	.00	.00	.00	.00	.00	.00	1.90	.00	.00	2.24
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.14	.51
23	.00	.00	.00	.00	.00	.00	.02	.33	1.14	.00	.16	.00
24	.30	.00	.00	.02	.00	1.41	.77	.45	.05	.00	.00	.00
25	.00	.00	.31	.00	.00	.02	.66	.00	.67	.00	.19	1.77
26	.00	.00	2.39	.00	.00	.01	.22	1.05	.00	.00	.03	1.75
27	.02	.00	.09	.00	.00	.00	.00	.63	.00	.19	.00	.00
28	.00	.00	.00	.00	.00	1.23	.00	.00	.00	.00	.01	.00
29	.00	.00	.30	.00	---	.03	.00	.01	.00	.11	.00	.00
30	.03	.00	.01	.00	---	.00	.00	.71	.00	.85	.00	.18
31	.13	---	.18	.00	---	.00	---	.65	---	.00	.00	---
TOTAL	.50	1.31	3.78	2.50	1.47	6.59	3.44	3.92	12.97	8.69	7.54	10.17
WTR YR 1982	TOTAL	52.38										

280931082333001 METZ RAIN GAGE NEAR CITRUS PARK, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.05	.00	.00	.00	.21	.51	1.41
2	.00	.28	.00	.00	2.52	.00	1.06	.00	.00	.00	.40	.39
3	.00	.00	.00	.01	.00	.00	.00	.00	.00	1.39	.46	1.58
4	.02	.88	.00	.00	.00	.01	.00	.22	.00	.06	.10	.00
5	.43	.00	.00	.00	.00	.00	.00	.00	.00	.37	.01	.02
6	.02	.00	.00	.00	1.10	.00	.00	.00	.01	.00	.15	.00
7	.02	.00	.00	.00	.01	2.62	.00	.00	1.98	.07	.13	.03
8	.00	.00	.00	.00	.00	.00	.00	.00	.80	.01	.92	.00
9	.00	.00	.00	.00	.00	.00	.81	.00	.05	.00	.04	.00
10	.00	.00	.00	.00	.85	.03	.32	.00	.00	.00	.00	.00
11	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
12	.00	.00	.49	.00	1.03	.00	.00	.00	.00	.00	.11	.61
13	.00	.09	.00	.00	1.25	.00	.00	.00	.27	.00	.14	.05
14	.58	.00	.00	.00	.00	.01	.34	.00	.41	.00	.52	.77
15	.00	.00	.06	.00	.01	1.33	.00	.00	.00	.00	.01	.00
16	.00	.00	.17	.00	.83	.32	.00	.00	.00	.00	.00	.10
17	.00	.00	.00	.00	.27	.04	.00	.00	.00	.00	.00	.47
18	.00	.00	.00	.00	.00	.00	.34	.00	.01	.00	.00	.11
19	.00	.00	.00	.00	.00	.00	.17	.00	.00	.01	.01	.24
20	.00	.00	.00	1.00	.00	.00	.00	.00	.17	1.42	.00	.31
21	.00	.00	.00	.91	.00	.00	.00	.00	.01	.07	2.22	.21
22	.11	.00	.00	.01	.00	.00	.00	.00	.37	.19	.01	.00
23	.49	.00	.00	.09	.00	.00	.26	.00	.69	.00	.00	.00
24	.00	.00	.00	.00	.00	1.03	.00	.00	.03	.00	.69	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.04	.28	.02	.00
26	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.00	.00
27	.00	.00	.00	.41	.14	1.10	.00	.00	.04	.33	.00	.00
28	.00	.00	.00	.00	.10	.01	.00	.00	.14	.00	.00	.00
29	.00	.00	.00	.00	---	.01	.00	.00	.00	.40	.23	.00
30	.00	.00	.00	.00	---	.00	.00	2.28	.64	.65	.00	.00
31	.00	---	.00	.00	---	.49	---	.06	---	.02	.00	---
TOTAL	1.83	1.25	.72	2.43	8.11	7.05	3.30	2.57	5.70	5.55	6.69	6.30
CAL YR 1982 TOTAL												61.09
WTR YR 1983 TOTAL												51.50

280931082333001 METZ RAIN GAGE NEAR CITRUS PARK, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.00
2	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02
3	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.05	.00
4	.00	.00	.00	.00	.00	.00	2.18	.00	.00	.41	.76	.00
5	.00	.07	.00	.00	.00	.00	.00	.00	.00	.89	.00	.23
6	.00	.00	.65	.00	.00	.01	.00	.00	.00	.00	.00	.07
7	.00	.23	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00
8	.86	.19	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.25	.63	.00	.01	.00	.00
10	.31	.02	.00	1.09	.00	.00	.00	.00	.00	.01	.02	.00
11	.66	.00	.71	.00	.00	.00	.00	.00	.08	.37	1.18	.00
12	.01	.00	.75	.16	.00	.73	.00	.00	.00	.00	.00	.00
13	.12	.00	.00	.09	1.09	.17	.00	.00	.00	.12	.00	.00
14	.37	.00	.12	.00	.00	.00	.02	.00	1.21	.25	.10	.00
15	.25	.33	.20	.00	.01	.00	.40	.00	.30	.02	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.68	.06	.00
17	.12	.00	1.56	.06	.00	.00	.02	.00	.14	.00	.58	.00
18	.01	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.06
19	.00	.00	.32	.62	.00	.00	.00	.00	.05	.00	.22	.08
20	.00	1.44	.00	.08	.07	.11	.00	.00	.00	.00	.59	.00
21	.00	.01	.00	.08	1.19	.00	.00	.00	.00	.00	1.18	.00
22	.00	.00	.00	.00	.21	.00	.00	1.69	.00	.61	.00	.00
23	.00	.00	.00	.00	.00	.18	.07	.51	.63	.44	.00	.00
24	.27	.14	.00	.00	.00	.00	.00	.00	.02	.79	.00	.00
25	.00	.01	.00	.07	.00	.00	.00	.02	.00	.05	.00	.00
26	.00	.00	.00	.39	.00	1.01	.02	1.14	.57	1.78	.00	.00
27	.00	.00	.00	.00	1.79	.00	.00	1.23	.00	.01	.00	1.53
28	.00	.20	1.69	.01	.07	.01	.00	.00	.00	.00	.00	.74
29	.00	.08	1.98	.00	.00	.00	.00	.00	.55	.62	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.33	.35	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.24	.00	---
TOTAL	2.98	2.72	7.99	2.65	4.44	2.22	3.02	5.24	3.97	9.44	4.98	2.73
CAL YR 1983 TOTAL			61.39									
WTR YR 1984 TOTAL			52.38									

Appendix 6.--Hydrologic Data for Hollin Creek Watershed

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310147 HOLLIN CREEK NEAR TARPON SPRINGS, FL

LOCATION.--Lat 28°09'44", long 82°42'38", in SW1/4 sec.4, T.27 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, 10 ft upstream from twin box culverts on abandoned railroad grade, 700 ft northeast of County Road 77, 0.8 mi upstream from mouth, and 3.0 mi northeast of Tarpon Springs.

DRAINAGE AREA.--4.4 mi² approximately, excludes approximately 3.9 mi² which is noncontributing.

PERIOD OF RECORD.--June 1981 to September 1984. Continued.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 7.06 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow affected for short periods in 1983 by dredging in channel upstream from gage.

EXTREMES FOR PERIOD OF RECORD.--June 26 to Sept. 30, 1981: Maximum discharge, 50 ft³/s Aug. 12, gage height, 11.16 ft, from recorded range in stage; minimum, 0.07 ft³/s Aug. 1; minimum gage height, 9.19 ft July 12, 13, 15, 16.

Water Year 1982: Maximum discharge, 89 ft³/s Sept. 26, gage height, 12.26 ft; no flow for several days in May and June; minimum gage height, 9.20 ft part of each day Oct. 13-20.

Water Year 1983: Maximum discharge, 57 ft³/s Oct. 14, gage height, 11.41 ft; minimum 0.08 ft³/s May 4, gage height, 9.17 ft, affected by channel clearing upstream.

Water Year 1984: Maximum discharge, 69, ft³/s Dec. 29, gage height, 11.7 ft estimated from crest-stage gage mark on downstream side of culvert; minimum gage height, 9.27 ft June 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	3.0	.09	7.4
2									---	2.0	.45	5.4
3									---	1.5	1.5	4.0
4									---	.90	.92	2.6
5									---	.66	2.9	2.4
6									---	.44	1.5	4.2
7									---	.24	.24	3.6
8									---	.17	.15	2.8
9									---	.13	.13	5.2
10									---	.12	.12	6.0
11									---	.11	.12	6.6
12									---	.11	19	7.5
13									---	.11	5.1	6.5
14									---	.15	1.6	5.3
15									---	.12	.66	4.7
16									---	.14	.28	4.3
17									---	.23	.26	7.4
18									---	.97	.23	15
19									---	.51	.29	15
20									---	2.6	1.6	9.6
21									---	1.5	8.4	6.6
22									---	.32	7.6	5.1
23									---	.56	7.1	4.1
24									---	1.9	5.3	3.1
25									---	.50	5.3	2.2
26										5.6	.97	3.7
27										16	.67	2.8
28										10	.26	11
29										9.6	.12	12
30										4.3	.11	9.9
31										---	.10	9.4
TOTAL									---	21.22	119.64	151.07
MEAN									---	.68	3.86	5.04
MAX									---	3.0	19	15
MIN									---	.10	.09	.39
CFSM									---	.16	.88	1.15
IN.									---	.18	1.01	1.28
AC-FT									---	.42	237	300
DAYS	0	0	0	0	0	0	0	0	5	31	31	30

NOTE.--Record estimated July 1-9, Aug. 7-13.

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310147 HOLLIN CREEK NEAR TARPON SPRINGS, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.16	.13	2.2	1.8	.18	1.6	.17	1.1	3.0	4.2	10
2	.21	.15	.16	1.7	12	.19	.89	.17	.19	2.4	4.3	7.9
3	.18	.15	.16	1.4	.86	.22	.58	.17	1.1	2.1	4.9	6.4
4	.16	.15	.13	1.8	1.3	.33	.37	.17	1.0	1.5	4.6	5.3
5	.16	.74	.12	2.0	.46	.23	.26	.17	.15	1.3	4.3	4.6
6	.14	.32	.13	1.5	.38	15	.23	.17	.06	2.6	4.1	4.0
7	.14	.18	.12	1.2	.32	12	.17	.32	.06	7.5	3.8	3.5
8	.13	.16	.12	1.2	.26	10	.14	.18	.10	11	3.7	4.3
9	.13	.15	.12	1.2	.23	7.2	.18	.16	.23	7.4	4.4	8.1
10	.13	.15	.12	.61	.22	5.5	.21	1.2	.25	5.3	3.5	7.1
11	.12	.17	.13	.24	.19	4.0	5.4	.89	.03	4.0	4.5	6.5
12	.12	.16	.14	.22	.19	3.0	2.5	.29	.00	4.4	3.7	5.6
13	.11	.15	.15	.20	.18	2.4	1.6	.12	.00	6.3	3.3	5.2
14	.11	.15	.13	.20	.15	1.9	.82	.21	.09	5.9	3.0	4.7
15	.11	.14	.35	.20	.12	1.5	.60	.03	.03	10	2.8	4.0
16	.11	.13	.20	.17	.13	1.2	.38	.02	.00	9.0	4.2	3.4
17	.11	.13	.17	.20	.80	.95	.26	.22	.78	13	5.1	4.0
18	.11	.14	.17	.24	.65	.81	.24	.09	35	30	7.4	2.8
19	.11	.13	.15	.30	.34	.72	.22	.01	8.7	37	21	2.6
20	.11	.13	.15	1.6	.27	.51	.21	.00	5.7	26	40	3.4
21	.12	.14	.16	3.1	.23	.47	.19	.00	7.4	18	39	16
22	.12	.14	.17	2.0	.19	.42	.18	.00	10	14	27	38
23	.12	.14	.19	1.2	.35	.36	.16	.00	14	11	22	45
24	.13	.13	.19	.87	.57	.68	.22	.00	15	8.3	17	35
25	.13	.13	.32	.66	.43	3.1	.28	.00	13	6.9	13	28
26	.14	.13	2.8	.46	.18	1.2	.85	.10	12	6.1	10	77
27	.16	.12	14	2.2	.19	.60	.67	.06	9.6	5.7	8.2	67
28	.17	.12	5.2	2.6	.20	1.2	.27	.15	7.0	5.8	16	48
29	.17	.12	2.7	1.7	---	4.8	.20	.00	5.4	5.1	17	32
30	.17	.12	1.8	1.3	---	3.0	.18	.28	4.1	4.7	16	24
31	.16	---	1.5	.89	---	2.4	---	2.4	---	4.6	13	---
TOTAL	4.38	5.03	32.08	35.36	23.19	86.06	20.06	7.75	152.07	279.9	335.2	513.4
MEAN	.14	.17	1.03	1.14	.83	2.78	.67	.25	5.07	9.03	10.8	17.1
MAX	.29	.74	14	3.1	12	15	5.4	2.4	35	37	40	77
MIN	.11	.12	.12	.17	.12	.18	.14	.00	.00	1.3	2.8	2.6
CFSM	.03	.04	.23	.26	.19	.63	.15	.06	1.15	2.05	2.46	3.89
IN.	.04	.04	.27	.30	.20	.73	.17	.07	1.29	2.37	2.83	4.34
AC-FT	8.7	10.0	64	70	46	171	40	15	302	555	665	1020
DAYS	31	30	31	31	28	31	30	31	30	31	31	30

WTR YR 1982 TOTAL 1494.48 MEAN 4.09 MAX 77 MIN .00 CFSM .93 IN 12.63 AC-FT 2960 DAYS 365

NOTE.--Record estimated Nov. 15-30.

PEACE, WITHLACOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOCHEE RIVER

02310147 HOLLIN CREEK NEAR TARPON SPRINGS, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	19	4.2	.17	.20	1.6	8.0	9.3	.81	1.7	.46	1.0	4.3				
2	15	3.7	.15	.20	24	6.4	12	.61	1.1	.60	2.6	15				
3	12	3.3	.14	.20	16	5.8	13	.52	.50	.48	4.8	8.5				
4	11	4.2	.14	.18	11	5.1	11	.64	.50	.96	3.8	5.0				
5	8.7	4.1	.16	.17	8.4	4.5	8.9	.68	.56	.58	2.0	6.0				
6	8.8	3.1	.17	.18	12	4.1	7.5	.48	1.1	.36	2.2	4.5				
7	7.8	2.6	.17	.18	14	23	6.0	.38	.91	.26	2.5	3.7				
8	6.8	2.4	.16	.17	12	40	5.4	.32	1.9	.24	2.2	3.2				
9	6.0	2.1	.17	.17	10	37	14	.30	1.0	.23	2.0	2.7				
10	5.3	1.7	.17	.19	13	25	24	.29	.56	.21	1.7	2.6				
11	4.7	1.6	.20	.20	14	17	22	.39	.36	.22	1.3	2.0				
12	4.1	1.2	.51	.18	15	13	17	.31	.27	.21	1.6	5.9				
13	3.4	1.5	.24	.17	39	11	12	.47	.99	.24	1.6	12				
14	22	1.1	.20	.17	44	9.7	9.6	.57	1.0	.29	3.9	6.3				
15	20	.88	.19	.17	33	14	7.9	.49	1.4	.45	2.9	5.9				
16	17	1.3	2.2	.15	29	17	6.0	.58	1.5	.21	2.6	6.5				
17	14	.74	.70	.17	30	22	5.2	.46	.53	.20	1.6	9.9				
18	11	.64	.33	.20	28	20	4.7	.31	.78	.20	1.1	12				
19	8.3	.60	.24	.23	26	13	4.8	.78	1.9	.36	1.0	15				
20	7.1	.48	.24	1.4	21	10	4.3	.71	1.1	.26	.87	17				
21	5.9	.37	.22	2.9	17	7.9	3.7	.28	1.1	.48	.83	16				
22	6.9	.62	.20	1.8	14	6.0	3.3	.21	.54	.78	.94	15				
23	12	.52	.20	1.0	12	5.3	3.2	.19	.37	.54	1.2	12				
24	13	.42	.20	.74	10	14	3.0	.29	.28	.35	.96	8.2				
25	12	.25	.20	.54	9.7	7.5	2.3	.19	.27	.26	1.5	6.1				
26	11	.22	.19	.38	8.6	6.3	2.1	.23	.34	.48	1.6	5.2				
27	8.6	.46	.20	2.1	7.9	13	2.7	.22	.54	1.4	1.3	4.4				
28	7.2	.24	.20	2.5	7.8	16	2.5	.66	.70	.75	1.3	3.5				
29	6.1	.19	.20	1.6	---	15	2.1	.49	.58	.52	3.1	3.1				
30	5.3	.17	.20	1.1	---	11	1.1	3.3	.39	.96	1.8	2.8				
31	4.7	---	.20	.74	---	12	---	1.6	---	.88	1.1	---				
TOTAL	304.7	44.90	8.86	20.28	488.0	419.6	230.6	17.76	24.77	14.42	58.90	224.3				
MEAN	9.83	1.50	.29	.65	17.4	13.5	7.69	.57	.83	.47	1.90	7.48				
MAX	22	4.2	2.2	2.9	44	40	24	3.3	1.9	1.4	4.8	17				
MIN	3.4	.17	.14	.15	1.6	4.1	1.1	.19	.27	.20	.83	2.0				
CFSM	2.23	.34	.07	.15	3.96	3.07	1.75	.13	.19	.11	.43	1.70				
IN.	2.58	.38	.07	.17	4.12	3.55	1.95	.15	.21	.12	.50	1.90				
AC-FT	604	89	18	40	968	832	457	35	49	29	117	445				
DAYS	31	30	31	31	28	31	30	31	30	31	31	30				
CAL YR 1982	TOTAL	1811.45	MEAN	4.96	MAX	77	MIN	.00	CFSM	1.13	IN	15.32	AC-FT	3590	DAYS	365
WTR YR 1983	TOTAL	1857.09	MEAN	5.09	MAX	44	MIN	.14	CFSM	1.16	IN	15.70	AC-FT	3680	DAYS	365

PEACE, WITHLACOOCHEE, HILLSBOROUGH RIVERS AND WESTERN COASTAL AREA

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310147 HOLLIN CREEK NEAR TARPON SPRINGS, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.2	2.0	27	7.2	16	2.0	.90	1.2	.64	15	2.3
2	2.3	2.8	1.9	22	6.5	14	1.7	.87	1.1	.56	12	2.3
3	2.1	3.0	1.8	18	6.5	12	1.5	.86	.95	.70	9.6	2.7
4	2.2	2.3	1.9	16	6.4	10	12	.84	.89	3.9	7.7	2.3
5	2.1	2.3	1.6	14	6.3	8.5	11	.87	.77	11	6.3	3.0
6	2.4	2.1	4.8	12	6.5	7.0	10	.81	.71	11	4.9	3.1
7	1.8	2.4	5.6	11	6.5	6.2	7.7	.72	.68	3.6	4.2	2.8
8	1.8	3.5	4.2	9.5	6.6	5.6	5.6	.73	.58	2.2	4.3	2.5
9	1.9	2.5	3.4	8.5	6.9	4.9	13	.93	.46	2.0	3.4	2.3
10	2.0	2.7	3.2	12	6.9	4.3	15	.65	.39	2.1	3.0	2.2
11	3.8	2.2	3.2	17	6.6	3.8	14	.66	.39	2.0	2.9	2.0
12	4.6	1.8	12	17	6.3	4.1	12	.69	.38	1.9	2.8	1.8
13	5.0	1.6	7.1	17	11	6.0	8.9	.71	.35	2.1	2.6	1.8
14	5.3	1.4	7.0	16	11	4.5	6.9	.68	.44	2.0	2.5	1.7
15	6.8	1.9	9.5	14	11	3.9	6.2	.69	.61	2.8	2.4	1.6
16	6.7	1.8	8.3	13	9.5	3.4	5.6	.75	.58	2.4	2.5	1.6
17	5.9	1.2	13	11	8.0	3.0	4.4	.68	1.9	1.4	2.7	1.4
18	5.6	1.4	17	10	7.0	2.7	3.5	.66	.95	.75	2.5	1.7
19	5.3	1.2	17	16	6.2	2.4	3.0	.60	.60	1.0	2.7	2.6
20	5.0	5.1	15	14	7.5	2.5	2.5	.63	.44	1.6	7.8	2.2
21	4.7	5.0	13	14	13	3.1	2.0	.68	.40	1.5	9.8	1.7
22	6.1	3.1	11	13	13	2.5	1.8	1.3	.43	2.7	11	1.6
23	9.4	2.7	9.2	11	11	2.4	1.6	3.6	.65	8.9	9.7	1.3
24	11	2.6	8.0	9.9	10	2.4	1.5	.99	7.3	7.0	7.4	1.2
25	9.9	3.0	6.7	9.3	8.5	2.1	1.2	.87	2.6	9.8	5.3	1.2
26	8.4	2.3	6.1	11	7.5	3.0	1.1	.95	1.1	13	3.9	1.2
27	7.7	2.0	5.6	11	14	5.4	1.1	3.9	.75	16	3.2	1.4
28	5.8	1.9	6.2	10	20	4.1	1.0	2.8	.62	12	2.9	11
29	4.9	2.4	37	9.7	19	6.4	.99	1.3	.66	9.5	2.7	3.3
30	4.3	2.4	35	8.8	---	2.8	.90	1.5	.75	21	2.5	2.9
31	3.5	---	32	8.0	---	2.4	---	1.4	---	20	2.4	---
TOTAL	150.8	73.8	309.3	410.7	266.4	161.4	159.69	34.22	29.63	177.05	162.6	70.7
MEAN	4.86	2.46	9.98	13.2	9.19	5.21	5.32	1.10	.99	5.71	5.25	2.36
MAX	11	5.1	37	27	20	16	15	3.9	7.3	21	15	11
MIN	1.8	1.2	1.6	8.0	6.2	2.1	.90	.60	.35	.56	2.4	1.2
CFSM	1.11	.56	2.27	3.00	2.09	1.18	1.21	.25	.23	1.30	1.19	.54
IN.	1.27	.62	2.61	3.47	2.25	1.36	1.35	.29	.25	1.50	1.37	.60
AC-FT	299	146	613	815	528	320	317	68	59	351	323	140
DAYS	31	30	31	31	29	31	30	31	30	31	31	30
CAL YR 1983	TCTAL	2005.53	MEAN 5.49	MAX 44	MIN .15	CFSM 1.25	IN 16.96	AC-FT 3980	DAYS 365			
WTR YR 1984	TCTAL	2006.29	MEAN 5.48	MAX 37	MIN .35	CFSM 1.25	IN 16.96	AC-FT 3980	DAYS 366			

NOTE.--Record estimated Dec. 29 to Jan. 10, Feb. 16 to Mar. 11.

280932082415001 EAST LAKE ROAD EXTENSION RAIN GAGE NEAR TARPON SPRINGS, FL

LOCATION.--Lat 28°09'32", long 32°41'50", in SW1/4 sec.3, T.27 S., R.16 E., Pinellas County, in Hollin Creek watershed, on west side of East Lake Road extension, 0.7 mi north of State Highway 582, and 3.7 mi northeast of Tarpon Springs.

PERIOD OF RECORD.--June 1981 to September 1984 (daily totals and 15-minute interval unit values). Continued.

GAGE.--Digital recorder with 8-inch diameter receiving funnel and 3-inch diameter collector pipe.

EXTREMES FOR PERIOD OF RECORD.--June 30 to Sept. 30, 1981: Maximum 15-minute rainfall, 1.50 in Aug. 11 (1630).

Water Year 1982: Maximum 15-minute rainfall, 1.27 in July 17 (1615) hours).

Water Year 1983: Maximum 15-minute rainfall, 0.83 in Oct. 14 (0900 hours).

Water Year 1984: Maximum 15 minute rainfall, 0.73 in Dec. 28 (2315 hours).

REMARKS.--No unit values of rainfall Jan. 10, 1984; daily total estimated.

DAY	RAINFALL, ACCUMULATED (INCHES)					WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981						
	SUM					VALUES						
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	.00	.00	.00
2									---	.00	.98	.00
3									---	.00	.01	.00
4									---	.00	.71	.00
5									---	.00	.01	.72
6									---	.00	.00	.01
7									---	.00	.00	.00
8									---	.00	.01	.01
9									---	.00	.00	.95
10									---	.00	.00	.14
11									---	.00	3.71	.53
12									---	.09	.01	.09
13									---	.26	.16	.00
14									---	.00	.00	.21
15									---	.00	.00	.00
16									---	.23	.00	.34
17									---	.13	.00	1.10
18									---	.34	.00	.12
19									---	.01	.53	.00
20									---	.94	.80	.00
21									---	.05	1.21	.00
22									---	.00	.18	.00
23									---	.86	.00	.00
24									---	.00	.64	.00
25									---	.46	.00	.00
26									---	.18	.05	.00
27									---	.03	.70	.00
28									---	.00	1.23	.00
29									---	.04	.27	.00
30									.02	.00	.23	.00
31									---	.01	.06	---
TOTAL									---	3.63	11.50	4.22

280932082415001 EAST LAKE ROAD EXTENSION RAIN GAGE NEAR TARPON SPRINGS, FL

DAY	RAINFALL, ACCUMULATED (INCHES)					WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982						
	SUM					VALUES						
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.20	.07	.05	.00
2	.00	.00	.24	.00	.00	.00	.00	.00	.01	.06	.08	.00
3	.00	.00	.00	.00	.78	.00	.00	.00	1.19	.00	.33	.00
4	.00	.03	.00	.37	.01	.00	.00	.00	.00	.00	.00	.00
5	.00	1.06	.00	.00	.00	.55	.00	.00	.00	.12	.00	.08
6	.00	.00	.00	.00	.00	2.18	.00	.00	.00	1.01	.00	.11
7	.00	.00	.00	.00	.00	.51	.00	.00	.00	1.46	.28	.40
8	.00	.00	.00	.08	.00	.00	.00	.00	.00	.02	.29	.44
9	.00	.00	.00	.00	.02	.00	.23	.00	.00	.00	.10	.00
10	.00	.13	.00	.00	.00	.00	.76	.00	.00	.00	.57	.26
11	.00	.00	.00	.00	.00	.00	.64	.00	.00	.00	.01	.00
12	.00	.00	.00	.00	.03	.00	.00	.00	.00	.92	.01	.08
13	.00	.00	.00	1.04	.00	.00	.00	.00	.00	.17	.00	.00
14	.00	.00	.00	1.47	.00	.00	.00	.00	.01	.69	.00	.00
15	.00	.00	.58	.00	.05	.00	.00	.00	.00	.10	.48	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.15	.03	.16	.00
17	.00	.13	.00	.00	.61	.00	.00	.09	3.00	2.18	.00	.02
18	.00	.00	.00	.00	.00	.00	.00	.00	3.38	.55	1.46	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.72	.69
20	.00	.15	.00	.00	.00	.00	.00	.00	.00	.03	.31	.06
21	.00	.00	.00	.00	.00	.00	.00	.00	.74	.00	.00	2.22
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.99
23	.00	.00	.00	.00	.00	.00	.00	.00	1.03	.07	.29	.00
24	.00	.00	.00	.02	.00	1.12	.36	.00	.00	.00	.00	.00
25	.00	.00	.34	.00	.00	.07	.56	.05	.38	.15	.00	2.38
26	.06	.00	1.96	.00	.00	.01	.11	.41	.00	.01	.00	1.13
27	.06	.00	2.11	.00	.02	.00	.00	.00	.00	.10	.02	.00
28	.00	.00	.00	.00	.00	1.10	.00	.00	.00	.00	1.57	.00
29	.00	.00	.00	.00	---	.02	.00	.00	.00	.02	.00	.00
30	.01	.00	.00	.00	---	.00	.00	2.48	.00	.14	.00	.00
31	.00	---	.27	.00	---	.00	---	.52	---	.00	.00	---
TOTAL	.13	1.50	5.50	2.98	1.52	5.56	2.66	3.55	10.09	7.90	7.75	8.86
WTR YR 1982 TOTAL	58.00											

280932082415001 EAST LAKE ROAD EXTENSION RAIN GAGE NEAR TARPON SPRINGS, FL

RAINFALL, ACCUMULATED (INCHES) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
 SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.00	.00	.00	.00	.03	.C0	.00	.00	.28	.49	2.67
2	.00	.01	.00	.00	2.70	.00	.68	.00	.00	.00	1.49	.40
3	.00	.00	.00	.02	.00	.00	.C0	.00	.00	.52	1.11	.60
4	.01	.48	.00	.C0	.00	.00	.00	.24	.00	.00	.04	.06
5	.26	.C0	.00	.00	.00	.00	.C0	.00	.00	.00	.20	.25
6	.00	.00	.02	.00	1.33	.00	.C0	.00	.00	.00	.32	.00
7	.00	.00	.00	.00	.02	3.00	.C0	.00	.66	.00	.20	.06
8	.00	.00	.00	.00	.00	.01	.C0	.00	.57	.00	.14	.00
9	.00	.00	.00	.00	.00	.C0	1.78	.00	.05	.00	.17	.00
10	.00	.00	.C0	.00	.93	.C1	.24	.00	.01	.00	.03	.00
11	.00	.00	.C0	.00	.00	.00	.C0	.00	.00	.00	.00	.11
12	.00	.00	.31	.00	1.04	.00	.C0	.00	.00	.C0	.12	1.66
13	.00	.26	.C0	.00	.85	.00	.C0	.00	.66	.13	.10	.07
14	2.21	.00	.C0	.00	.03	.02	.C0	.00	.13	.C0	.97	.16
15	.00	.00	.03	.00	.00	1.07	.C0	.00	.00	.00	.16	.00
16	.00	.00	.69	.00	.73	.28	.C0	.00	.00	.00	.00	.59
17	.00	.00	.00	.00	.14	.30	.C0	.00	.00	.00	.00	.65
18	.00	.00	.00	.00	.00	.03	.14	.00	.82	.00	.00	.15
19	.00	.C0	.C0	.00	.00	.C0	.29	.00	.01	.06	.00	1.11
20	.01	.00	.00	.75	.00	.00	.C0	.00	.26	.00	.00	.02
21	.00	.C0	.C0	.68	.00	.01	.00	.00	.01	.71	.03	.33
22	.69	.00	.00	.00	.00	.00	.C0	.00	.00	.09	.25	.01
23	.52	.C0	.C0	.04	.00	.00	.36	.00	.01	.09	.00	.00
24	.00	.00	.00	.00	.00	.97	.C0	.00	.01	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.50	.00
26	.00	.00	.C0	.00	.00	.00	.00	.00	.41	.57	.00	.00
27	.00	.00	.00	.65	.16	1.33	.C0	.00	.09	.22	.01	.00
28	.00	.00	.00	.00	.16	.00	.C0	.00	.20	.01	.00	.00
29	.00	.00	.00	.00	---	.00	.C0	.00	.01	.23	1.16	.00
30	.00	.00	.00	.00	---	.02	.00	1.59	.00	.72	.02	.00
31	.00	---	.00	.01	---	.54	---	.00	---	.02	.00	---
TOTAL	3.72	.75	1.05	2.15	8.09	7.62	3.49	1.83	3.91	3.71	7.51	8.90
CAL YR 1982 TOTAL												56.39
WTR YR 1983 TOTAL												52.73

280932082415001 EAST LAKE ROAD EXTENSION RAIN GAGE NEAR TARPON SPRINGS, FL

DAY	RAINFALL, ACCUMULATED (INCHES)				WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984							
	SUM				VALUES							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.21	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.49
3	.00	.00	.00	.00	.03	.00	.15	.00	.00	.01	.02	.00
4	.00	.00	.00	.00	.02	.00	1.84	.00	.00	2.02	.24	.00
5	.00	.08	.00	.00	.00	.00	.00	.00	.00	1.58	.00	.83
6	.00	.00	1.06	.00	.00	.02	.00	.00	.00	.25	.00	.08
7	.00	.27	.00	.00	.00	.00	.00	.00	.00	.00	.43	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	1.53	.37	.00	.00	.00	.00
10	.27	.06	.00	1.25	.00	.00	.01	.00	.00	.09	.00	.00
11	.71	.00	.80	.00	.00	.00	.00	.00	.00	.28	.00	.00
12	.14	.00	.39	.25	.08	.91	.00	.00	.00	.00	.00	.00
13	.39	.00	.00	.07	1.27	.09	.00	.00	.00	.26	.16	.00
14	.34	.00	.18	.00	.00	.00	.02	.00	.08	.02	.00	.00
15	.50	.15	.32	.00	.00	.00	.37	.00	.21	.37	.00	.00
16	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00
17	.07	.00	1.33	.01	.00	.00	.01	.00	1.15	.00	.16	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.63
19	.00	.00	.00	.70	.00	.00	.00	.00	.00	.40	.52	.19
20	.00	1.39	.00	.07	.08	.54	.00	.00	.00	.30	1.46	.00
21	.00	.00	.00	.08	.60	.00	.00	.00	.00	.00	.77	.00
22	1.35	.01	.01	.00	.14	.00	.00	1.01	.00	1.81	.00	.00
23	.00	.00	.00	.00	.00	.19	.10	.65	.50	.19	.00	.00
24	.42	.25	.00	.00	.00	.00	.00	.00	1.49	.83	.00	.00
25	.00	.01	.00	.02	.00	.00	.00	.00	.00	.16	.00	.00
26	.00	.00	.00	.34	.00	.81	.01	.09	.17	.88	.00	.00
27	.00	.00	.00	.00	2.04	.00	.00	1.18	.00	.18	.00	1.44
28	.00	.04	2.42	.00	.07	.01	.00	.02	.02	.00	.00	1.36
29	.00	.25	1.90	.00	.01	.00	.00	.00	.14	1.67	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.30	.07	.00	.00
31	.01	---	.00	.00	---	.00	---	.00	---	.02	.00	---
TOTAL	4.21	2.51	8.41	2.79	4.34	2.57	4.04	3.32	4.07	11.67	4.02	5.02
CAL YR 1983 TOTAL	62.34											
WTR YR 1984 TOTAL	56.97											

281020082400001 ELDRIDGE-WILDE RAIN GAGE NEAR TARPON SPRINGS, FL

LOCATION.--Lat 28°10'20", long 82°40'00", in NE1/4 sec.1, T.27 S., R.16 E., Pinellas County, near Hollin Creek watershed, 0.1 mi south of Pasco County line, and 5.7 mi northeast of Tarpon Springs.

PERIOD OF RECORD.--June 1981 to September, 1984 (daily totals and 15-minute interval unit values). Discontinued.

GAGE.--Digital recorder with 8-inch diameter receiving funnel and 3-inch diameter collector pipe.

EXTREMES FOR PERIOD OF RECORD.--June 23 to Sept. 30, 1981: Maximum 15-minute rainfall, 0.80 in June 26 (2045 hours).

Water Year 1982: Maximum 15-minute rainfall, 1.01 in Aug. 15 (1945 hours).

Water Year 1983: Maximum 15-minute rainfall, 0.86 in Oct. 14 (0930 hours).

Water Year 1984: Maximum 15-minute rainfall, 0.86 in July 20 (1515 hours).

REMARKS.--No unit values of rainfall Nov. 9-30, Dec. 29-31, 1983, Jan. 1-3, 1984; daily totals estimated.

DAY	RAINFALL, ACCUMULATED (INCHES)					WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981						
	SUM					VALUES						
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	.00	.00	.00
2									---	.00	.31	.00
3									---	.00	.00	.00
4									---	.00	.26	.00
5									---	.00	.00	.45
6									---	.00	.00	.00
7									---	.00	.00	.00
8									---	.00	.00	.02
9									---	.00	.01	.76
10									---	.00	.00	.03
11									---	.00	2.26	1.63
12									---	.19	.21	.25
13									---	.52	.18	.00
14									---	.00	.00	.06
15									---	.00	.00	.00
16									---	.26	.00	.42
17									---	.37	.01	1.07
18									---	.86	.00	.12
19									---	.02	1.26	.00
20									---	.46	.73	.00
21									---	.02	1.01	.01
22									---	.00	.28	.00
23									.93	1.31	.00	.00
24									.01	.00	1.39	.00
25									.03	.15	.00	.00
26									2.57	.09	.03	.00
27									.15	.09	.68	.00
28									.39	.00	1.38	.00
29									.00	.15	.71	.00
30									.00	.06	.03	.00
31									---	.00	.01	---
TOTAL									---	4.55	10.75	4.82

281020082400001 ELDRIDGE-WILDE RAIN GAGE NEAR TARPON SPRINGS, FL

RAINFALL, ACCUMULATED (INCHES) SUM						WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982 VALUES						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.12	.06	.00	.00
2	.00	.00	.32	.02	.00	.00	.00	.00	.00	.08	.04	.00
3	.00	.00	.00	.00	.71	.00	.00	.07	.29	.00	.64	.00
4	.00	.00	.00	.33	.01	.00	.00	.00	.01	.00	.00	.00
5	.00	.80	.00	.00	.00	.40	.01	.00	.00	.28	.00	.33
6	.00	.00	.00	.00	.00	2.08	.00	.00	.00	.13	.00	.19
7	.00	.00	.00	.00	.00	.38	.00	.00	.00	.20	.15	.41
8	.00	.00	.00	.05	.01	.01	.00	.00	.00	.28	.46	.27
9	.00	.00	.00	.00	.01	.00	.18	.00	.00	.04	.01	.01
10	.00	.18	.00	.00	.00	.00	.57	.00	.00	.00	.52	.12
11	.00	.00	.00	.00	.00	.00	.69	.00	.00	.00	.47	.00
12	.00	.00	.01	.00	.03	.00	.00	.00	.00	1.97	.00	.20
13	.00	.00	.00	1.18	.00	.00	.00	.00	.00	.03	.00	.01
14	.00	.00	.00	1.59	.00	.00	.00	.00	.00	1.31	.06	.00
15	.00	.00	.57	.00	.16	.00	.00	.00	.01	.06	1.15	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.24	.06	.01	.00
17	.00	.13	.00	.00	.58	.00	.00	.22	2.71	1.19	.01	.01
18	.00	.00	.00	.00	.01	.00	.00	.00	3.27	.13	1.70	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.32	.49
20	.00	.16	.00	.00	.00	.00	.00	.00	.00	.02	.03	.04
21	.00	.00	.00	.00	.00	.00	.00	.00	.92	.00	.00	2.94
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.72
23	.00	.00	.00	.00	.00	.00	.01	.31	.88	.12	.35	.00
24	.00	.00	.00	.05	.00	1.27	.38	.00	.00	.00	.00	.00
25	.00	.00	.33	.00	.00	.03	.54	.03	.53	.23	.00	1.90
26	.02	.00	2.28	.00	.00	.06	.10	.67	.00	.00	.00	1.17
27	.13	.00	2.37	.00	.00	.00	.00	.01	.00	.14	.01	.00
28	.00	.00	.00	.00	.00	1.19	.00	.00	.00	.00	.88	.00
29	.00	.00	.01	.00	---	.02	.00	.00	.00	.06	.00	.00
30	.00	.00	.00	.00	---	.00	.00	3.62	.00	.95	.00	.01
31	.00	---	.33	.00	---	.00	---	.49	---	.00	.00	---
TOTAL	.15	1.27	6.22	3.22	1.52	5.44	2.48	5.42	8.98	7.34	9.05	8.82
WTR YR 1982 TOTAL	59.91											

281020082400001 ELDRIDGE-WILDE RAIN GAGE NEAR TARPON SPRINGS, FL

RAINFALL, ACCUMULATED (INCHES)
SUM WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.11	.00	.00	.00	.00	.50	2.56
2	.00	.05	.00	.00	2.88	.00	.81	.00	.00	.00	1.76	.47
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.69	1.60	1.06
4	.01	.54	.00	.00	.01	.00	.01	.23	.00	.01	.24	.01
5	.93	.00	.00	.00	.00	.00	.00	.02	.00	.00	.77	.16
6	.01	.00	.00	.00	1.39	.00	.00	.00	.26	.00	.04	.00
7	.00	.00	.00	.00	.02	3.41	.00	.00	.88	.00	.10	.04
8	.00	.00	.00	.00	.00	.00	.00	.00	.48	.00	.43	.00
9	.00	.00	.00	.00	.00	.00	1.63	.00	.02	.00	.59	.00
10	.00	.00	.00	.00	.92	.00	.25	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.28	.00	1.11	.00	.00	.00	.00	.00	.04	1.06
13	.00	.04	.00	.00	.98	.00	.00	.00	.51	.03	.05	.08
14	2.51	.00	.00	.00	.02	.01	.00	.00	.16	.00	1.31	.17
15	.00	.00	.01	.00	.00	1.29	.00	.00	.00	.00	.94	.00
16	.00	.00	.59	.00	.75	.48	.00	.00	.00	.00	.36	.63
17	.00	.00	.00	.00	.32	.15	.00	.00	.00	.00	.00	.62
18	.00	.00	.00	.00	.00	.01	.33	.00	.21	.00	.00	.08
19	.00	.00	.00	.00	.00	.00	.23	.00	.00	.45	.00	1.10
20	.00	.00	.00	.79	.00	.00	.00	.00	.14	.04	.00	.00
21	.00	.00	.00	.79	.00	.01	.00	.00	.02	1.49	.08	.24
22	1.16	.00	.00	.00	.00	.00	.00	.00	.00	.40	.15	.00
23	.57	.00	.00	.15	.00	.00	.40	.00	.00	.00	.01	.00
24	.00	.00	.00	.00	.00	.89	.00	.00	.04	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.23	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.05	.54	.00	.00
27	.00	.00	.00	.63	.17	1.21	.00	.00	.05	.29	.00	.00
28	.00	.00	.00	.00	.17	.01	.00	.00	.06	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.19	.67	.00
30	.00	.00	.00	.00	---	.01	.00	1.48	.00	.18	.01	.00
31	.00	---	.00	.01	---	.56	---	.01	---	.09	.01	---
TOTAL	5.19	.63	.88	2.36	8.74	8.15	3.66	1.74	2.88	4.41	9.89	8.28
CAL YR 1982	TOTAL	58.97										
WTR YR 1983	TOTAL	56.81										

281020082400001 ELDREDGE-WILDE RAIN GAGE NEAR TARPON SPRINGS, FL

RAINFALL, ACCUMULATED (INCHES)						WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984						
SUM						VALUES						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.82	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.31	.04	.50
3	.01	.00	.00	.00	.01	.00	.16	.00	.00	.01	.02	.01
4	.00	.00	.00	.00	.03	.00	1.90	.00	.00	1.43	.10	.04
5	.00	.04	.00	.00	.00	.00	.00	.00	.00	.33	.01	.65
6	.00	.00	.95	.00	.00	.01	.00	.00	.00	.85	.00	.09
7	.00	.24	.00	.00	.00	.01	.00	.00	.00	.00	.08	.00
8	.27	.16	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
9	.01	.00	.00	.00	.00	.00	1.82	.34	.00	.00	.00	.00
10	.20	.05	.00	1.27	.00	.00	.00	.00	.00	.20	.06	.00
11	.53	.00	.84	.00	.00	.00	.00	.00	.00	.51	.08	.43
12	.13	.00	.43	.22	.06	.71	.00	.00	.00	.01	.00	.00
13	.26	.00	.00	.09	1.11	.12	.00	.00	.00	.31	.01	.00
14	.70	.00	.14	.01	.01	.00	.02	.00	.54	.02	.00	.00
15	.32	.10	.20	.00	.00	.00	.31	.00	.77	.00	.00	.00
16	.02	.00	.00	.00	.00	.00	.00	.00	.01	.00	.17	.00
17	.32	.00	.65	.00	.00	.00	.00	.00	1.05	.00	.09	.00
18	.00	.00	.01	.00	.00	.00	.00	.00	.09	.00	.00	.09
19	.00	.00	.01	.68	.00	.00	.00	.00	.00	.43	.88	.08
20	.00	1.30	.00	.07	.08	.47	.00	.00	.00	2.07	1.40	.00
21	.00	.00	.00	.12	.78	.01	.00	.00	.00	.00	.76	.00
22	1.60	.00	.00	.00	.16	.00	.00	1.73	.00	.95	.00	.00
23	.01	.00	.00	.00	.00	.18	.06	.86	.92	.04	.00	.00
24	.32	.30	.00	.00	.00	.00	.00	.00	.29	.45	.00	.00
25	.00	.00	.00	.01	.00	.01	.00	.00	.00	.01	.00	.00
26	.00	.00	.00	.41	.00	1.03	.06	.16	.12	.83	.06	.00
27	.00	.00	.00	.00	2.17	.02	.00	.88	.00	.02	.00	1.86
28	.00	.04	2.17	.00	.09	.00	.00	.01	.00	.01	.00	.91
29	.00	.30	1.97	.00	.01	.00	.00	.03	.21	1.58	.00	.00
30	.00	.00	.00	.00	---	.00	.01	.00	.34	.23	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.02	.00	---
TOTAL	4.75	2.53	7.37	2.88	4.51	2.57	4.34	4.01	4.34	10.63	4.59	4.66
CAL YR 1983 TOTAL	64.76											
WTR YR 1984 TOTAL	57.18											

*U.S. GOVERNMENT PRINTING OFFICE: 1986-631-135/20016 Region 4.