

Flood Stages and Discharges For Small Streams in Texas

Compilation of Data through September 1972

U.S. GEOLOGICAL SURVEY

Open-File Report



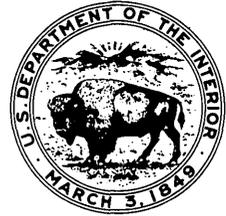
Schroeder—FLOOD STAGES AND DISCHARGES FOR SMALL STREAMS IN TEXAS, 1972

*Prepared in cooperation with the Texas Highway Department
and the U. S. Department of Transportation,
Federal Highway Administration*

Flood Stages and Discharges For Small Streams in Texas

By E. E. Schroeder

U.S. GEOLOGICAL SURVEY



Research Study 4-5-65-85

Interim Report No. 85-9

Compilation of Data through September 1972

*Prepared in cooperation with the Texas Highway
Department and the U.S. Department of
Transportation, Federal Highway Administration*

1974

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() Numbers in parentheses identify Highway Districts in which the stations are located.

a/ Small watershed streamflow station in the U.S. Geological Survey network financed by funds from agencies other than the Texas Highway Department.

ILLUSTRATIONS

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Figure 1. Map showing gaging stations on small streams in
Texas, September 30, 1972-----In pocket

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FLOOD STAGES AND DISCHARGES FOR SMALL STREAMS IN TEXAS

By

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U.S. Geological Survey

INTRODUCTION

Research Study No. 4-5-65-85, "Hydrologic Investigation of Small Drainage Areas in Texas," is a cooperative program between the Texas Highway Department and the U.S. Geological Survey. This program, which began in September 1964, is financed by funds made available for research by the Texas Highway Department and the U.S. Department of Transportation, Federal Highway Administration.

This report is the ninth in a series of interim reports that describe the objectives, planning, instrumentation, progress, and status of the project. The report includes data collected during the 1972 water year.

For the convenience of readers who may want to use metric units, the metric equivalents are given in parentheses following the English units. Data presented in the tables may be converted by using the following conversion factors:

| <u>Multiply</u> | <u>By</u> | <u>To obtain</u> |
|--------------------------------------------|-----------|---------------------------------------------|
| Miles (mi) | 1.609 | Kilometres (km) |
| Feet (ft) | .3048 | Metres (m) |
| Square miles (mi ²) | 2.59 | Square kilometres (km ²) |
| Cubic feet per second (ft ³ /s) | .028317 | Cubic metres per second (m ³ /s) |
| Feet per mile | .19 | Metres per kilometre |

Program Objective

The objective of the program is to obtain basic hydrologic data that may be used to define the magnitude and frequency of floods for drainage areas of less than 20 square miles. When sufficient data have been obtained, a magnitude and frequency analysis of floods for streams of less than 20 square miles will be prepared. These data will supplement those used by Patterson (1963).

Program Planning

To accomplish the objective, a network of 150 crest-stage partial-record gages was established. These gages are distributed throughout the State to sample all hydrologic areas and flood-frequency regions as defined by Patterson (1963) and to obtain a representative sample of physical characteristics. Information for unusual peak discharges at unged sites is obtained as the opportunity arises.

The planning of this program is directed toward providing a useful regional flood-frequency relation for small streams as soon as the necessary data are collected. Recognizing that an annual-flood series distribution will be used, rainfall-runoff simulation techniques are being tested for possible use in extending records of annual peaks. These techniques should afford usable relations sooner than would be possible by using routine techniques such as the "index-flood method."

INSTRUMENTATION

Each gage site is equipped with one or more crest-stage gages and a stage-rainfall recorder. The crest-stage gage consists of two modified 2-inch pipe caps attached to an appropriate length of 2-inch pipe that encloses a wooden or metal rod. The upper cap contains a 1/4-inch vent hole to release trapped air, and the lower cap has six 1/4-inch intake holes that allow water to enter. The intake holes in the lower cap are designed to give optimum performance with respect to "drawdown" and "stackup." The gage is mounted in a vertical position on the flood plain.

A small amount of granulated cork is placed inside the 2-inch pipe near the bottom of the inner rod. When a rise occurs, the water entering the pipe floats the cork inside the pipe. At the maximum stage, the cork adheres to the inner rod leaving a distinct "peak mark," the elevation of which is determined from the datum to which the gage was originally set.

A typical installation consists of two crest-stage gages--one headwater gage and one tailwater gage. The headwater gage is located upstream from the culvert at a distance approximately equal to one culvert width in order to record the true water-surface elevation upstream from any drawdown-zone disturbance. The tailwater gage is located downstream from the culvert to record the water-surface elevation at the culvert outlet. The difference between the recorded headwater and tailwater peaks is known as the differential head. A peak rate of flow is determined from the differential head by standard U.S. Geological Survey methods of computation (Bodhaine, 1968).

Additional hydrologic data are obtained at each site by a stage and rainfall recorder (S-R recorder). This recorder is a small compact instrument that records, on a circular chart, the time distribution of rainfall and stage. The recorder chart makes one complete revolution each day. The instrument is ideally suited for recording a single storm between visits, but when more than one storm event occurs between visits the record is superimposed. Although the S-R recorder has limitations, sufficient data can be obtained over a period of time to satisfy the needs for the rainfall-runoff analyses.

STATUS OF THE PROGRAM

The construction phase of the program was completed during the 1967 water year. Data are being collected at 82 other small-stream stations for other projects, making a total of 232 stations available for this study. The locations of all these gages are shown on figure 1 (in pocket). All combinations of flood-frequency regions and hydrologic areas have been sampled with the exception of subregion 6-A, a low-lying coastal subregion near the Aransas Bay-Nueces Bay area. No suitable site could be found in that area. A complete list of gaging stations is included in the section "Station Data."

Theoretical stage-discharge ratings have been computed for 142 stations utilizing the culvert geometry and slope in a computer program (Somers and Selner, 1965). These theoretical ratings give the stage-discharge relation from the lowest elevation controlled by the culvert to an elevation at which flow over the roadway begins. Above the roadway, the discharge is a combination of field-determined culvert flow plus the measured or computed flow over the roadway.

The stage-discharge relation for the other eight gages, which are located at bridges, will be defined by current-meter measurements or by indirect methods such as slope-area, contracted-opening, slope-conveyance, flow-over-roadway embankment, or other special studies.

One provision of the cooperative agreement is to obtain peak discharges for floods of unusual magnitude or for floods creating special problems at miscellaneous or ungaged sites. Notable flood events that occurred during the water year are listed in table 1. During the year, six miscellaneous measurements were obtained (table 2).

Figure 1

Gaging stations on small streams in Texas, September 30, 1972

(Map is in pocket on back cover of the report)

Table 1.--Notable flood events during the 1972 water year

| Location | Date | Remarks |
|---------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dallas, Dallas County | Oct. 3, 1971 | Three persons drowned in White Rock Creek at Greenville Ave. Weather Service office at Love Field reported 3.96 inches of rainfall. |
| Harris County | Mar. 20-21, 1972 | Extensive flooding occurred in northern Harris County as a result of high intensity rainfall on the afternoon of the 20th. Rainfall totals of more than 7 inches were recorded. A total of 6.00 inches was recorded in a 2-hour period at the USGS gage at Greens Bayou on U.S. Highway 75. Property damage was estimated at 5-1/2 million dollars. |
| San Antonio, Bexar County | May 7, 1972 | Three days of heavy rains that totaled more than 7 inches produced flooding in northeast San Antonio on the 7th. Three persons were drowned in Olmos Creek in separate incidents. |
| South Central Texas | May 11-12, 1972 | Rainfall ranging up to 16 inches caused severe flooding in the New Braunfels-San Marcos-Seguin area. The highest unit peak discharge known in Texas was recorded from this flood (2,510 ft ³ /s from 0.48 mi ² , which equals 5,230 ft ³ /s/mi ²) at Trough Creek near New Braunfels (08168720). |

Table 1.--Notable flood events during the 1972 water year--Continued

| Location | Date | Remarks |
|--------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| South Central Texas-Con. | | Eighteen deaths were caused by this flood. Seventeen of these occurred in or near New Braunfels. Property damage in Comal County alone was estimated at over \$10,000,000. |
| Henrietta, Clay County | May 11-12, 1972 | Heavy rains on the Dry Fork of the Little Wichita River caused the worst flood at Henrietta in 20 years. |
| Snyder, Scurry County | Aug. 13, 1972 | Heavy rains, unofficially reported to range from 5 to 12 inches, caused flooding in Snyder. Property damage was in excess of two million dollars. One person was drowned 18 miles north of town. |

Table 2.--Maximum discharge at miscellaneous sites

| Basin | Stream | Location | Drainage area (mi ²) | Date | Dis-charge (ft ³ /s) | Ft ³ /s per mi ² |
|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------|---------------------------------|----------------------------------------|
| Colorado | Deep Creek | Lat 32°47'46", long 100°59'41", Scurry County, at bridge on county road, 4.4 miles southeast of Dermott, 4.6 miles north of Union, and 7.0 miles northwest of courthouse in Snyder, Tex. | 53.6 | 8-13-72 | 10,600 | 198 |
| ...Do... |do.... | Lat 32°42'17", long 100°54'40", Scurry County, at crossing on 37th Street in Snyder, Tex. | 140 | 8-13-72 | 37,000 | 264 |
| Guadalupe | Purgatory Creek | Lat 29°52'06", long 97°58'01", Hays County, 2,000 ft upstream from Farm Road 2439 (Hunter Road) and 2.0 miles southwest of courthouse in San Marcos, Tex. | 34.6 | 5-12-72 | 38,800 | 1,121 |
| ...Do... | Cottonwood Creek | Lat 29°41'11", long 97°38'46", Caldwell County, at bridge on U.S. Highway 183 at Luling, Tex. | 3.22 | 5-12-72 | 6,590 | 2,046 |
| ...Do... | Blieders Creek | Lat 29°43'47", long 98°07'18", Comal County, at bridge on State Highway 46 (Loop 337), in the north edge of New Braunfels, and about 3.0 miles west of Interstate Highway 35. | 15.0 | 5-11-72 | 48,000 | 3,200 |
| ...Do... | Dry Comal Creek | Lat 29°42'10", long 98°07'45", Comal County, at Missouri Pacific Railway Bridge, 800 ft upstream from Landa Street, and 1,200 ft upstream from mouth in New Braunfels, Tex. | 112 | 5-12-72 | 56,400 | 504 |

PROGRAM FOR THE YEAR ENDING SEPTEMBER 30, 1973

Data from existing gages will be collected and tabulated. Stage-discharge curves will be defined and extended as the need arises. Operation and maintenance will be performed as required.

Watershed characteristics as follows will be tabulated for each watershed on a 7-1/2-minute series USGS topographic map, scale 1:24,000: (1) Drainage area, (2) main-channel length measured from the gage to the drainage divide, and (3) a slope index.

There is no standard method of determining a slope index; however, the unit slope between points located 85 and 10 percent of the channel length above the gage is a significant factor when used as an independent variable in regression analysis (Benson, 1962). In these analyses, the 85-10 slope index is generally second only to drainage area in statistical significance when correlated with peak discharge.

HYDROLOGIC CONDITIONS

During the 1972 water year, annual runoff was deficient in the east and west parts of the State, near average in the north and central, and excessive in the south.

Excessive rains in December caused record breaking floods on streams in the Sulphur River basin. The recurrence interval discharges at stream-flow stations in the storm area ranged from 50 to 100 years.

Flash flooding occurred in Houston during March and again in May. During May, disastrous floods occurred in the Guadalupe River basin below Canyon Dam.

DATA COMPILATION

The "station data" section of this report lists the available annual peak data for watersheds of less than 20 square miles. In addition to the 150 Highway Program stations, 82 other stations are included, thereby grouping all of the available continuous data for small watersheds into one volume. These 82 stations are identified in the table of contents by (a/).

All stations are listed in downstream order by station number, which appears to the left of the station name. The number appearing to the right of the station name identifies the Highway District in which the station is located. All stations are plotted on figure 1 and are identified by number. In addition, symbols are used to identify the type of station.

Although the State contractual year ends on August 31, the water year ending on September 30 is used as the 12-month period of data collection so that reporting will be continuous with previously collected streamflow data.

Some notable floods that occurred during the period October 1, 1971, to September 30, 1972, are listed in table 1. This list includes only those floods associated with unusual amounts of rainfall or runoff or for which a special request regarding peak discharge was received. Additional details about some of the more destructive floods are contained in various reports prepared by the U.S. Geological Survey, Texas Water Development Board, U.S. Army Corps of Engineers, National Weather Service, U.S. Department of Agriculture, and others.

The measurements of peak discharge at miscellaneous small-area sites obtained during the reporting period are listed in table 2. Additional information concerning these measurements may be obtained from the files of the U.S. Geological Survey district office in Austin, Texas.

Table 3 is a tabulation of runoff and point rainfall data collected at selected gaging stations. Data for the storm that produced the maximum annual rate of runoff and data for other significant storms are listed.

DEFINITION OF TERMS

Some of the terms and abbreviations used in this report are defined as follows:

Gaging station.--a particular site on a stream where systematic observations of gage height or discharge are obtained.

Cubic foot per second (ft³/s).--the rate of discharge of a stream whose channel is one square foot in cross-sectional area and whose average velocity is one foot per second.

Gage height.--the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage" although gage height is more appropriate when used with a reading on a gage. When the gage is referred to mean sea level datum, the term "elevation" is commonly used instead of gage height.

Drainage area--area of a stream at a specified location measured in a horizontal plane, which is so enclosed by a topographic divide that direct surface runoff from precipitation normally would drain by gravity into the stream above the specified point. Drainage areas given herein include noncontributing areas unless otherwise noted.

Main-channel length--the distance, in miles, of the main channel, extended to the watershed divide, as measured with a divider, set to a distance equal to 0.05 mile. Mile zero is at the gaging station.

Slope index--a slope equal to the difference in elevation between the 85 and 10 percent points, in feet, divided by the main-channel distance between these points, in miles, where these points are 10 and 85 percent of the distance along the main channel upstream from the station.

Time of day--time expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330.

Water year--a 12-month period ending on September 30, identified by the year in which it ends; thus, the 12-month period ending September 30, 1972, is identified as the 1972 water year.

SELECTED REFERENCES

- Benson, M. A., 1962, Factors influencing the occurrence of floods in a humid region of diverse terrain: U.S. Geol. Survey Water-Supply Paper 1580-B, 64 p.
- Bodhaine, G. L., 1968, Measurements of peak discharge at culverts by indirect methods, Techniques of water-resources investigations of the U.S. Geol. Survey, book 3, ch. A3, Applications of hydraulics.
- Patterson, J. L., 1963, Floods in Texas, magnitude and frequency of peak flow: Texas Water Comm. Bull. 6311.
- Ruggles, F. H., Jr., 1966, Floods on small streams in Texas: U.S. Geol. Survey open-file rept. no. 89.
- Schroeder, E. E., 1967, Flood stages and discharges for small streams in Texas 1966: Interim Rept. no. 85-2, U.S. Geol. Survey open-file rept.
- _____ 1969, Flood stages and discharges for small streams in Texas 1967: Interim rept. no. 85-3, U.S. Geol. Survey open-file rept.
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- _____ 1972, Flood stages and discharges for small streams in Texas 1970: Interim rept. no. 85-6, U.S. Geol. Survey open-file rept.
- _____ 1973, Flood stages and discharges for small streams in Texas 1971: Interim rept. no. 85-7, U.S. Geol. Survey open-file rept.
- Somers, W. P., and Selner, G. I., 1965, Computations of stage-discharge relationships at culverts: U.S. Geol. Survey Surface-water techniques, Hydraulic measurement and computation, book 1, ch. 8.

Table 3.--Incremental rainfall and discharges for significant storms.

07343350 Dial Branch near Bagwell, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| Nov. 6, 1971 | 0700 | 0 | - |
| | 0715 | .55 | 27 |
| | 0730 | .65 | 34 |
| | 0745 | .65 | 48 |
| | 0800 | .65 | 55 |
| | 0815 | .65 | 62 |
| | 0830 | .65 | 55 |
| | 0845 | .65 | 55 |
| | 0900 | .65 | 48 |
| | 0930 | .65 | 41 |
| | 1000 | .65 | 34 |
| | 1100 | .65 | 27 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

07343900 Buck Creek near Cookville, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| Mar. 2, 1972 | 1800 | 0 | - |
| | 1845 | 0 | - |
| | 1900 | 1.00 | - |
| | 1915 | 1.55 | - |
| | 1930 | 1.70 | 76 |
| | 1940 | 1.70 | 105 |
| | 1945 | 1.75 | 274 |
| | 1950 | 1.75 | 274 |
| | 1955 | 1.75 | 246 |
| | 2000 | 1.80 | 237 |
| | 2005 | 1.80 | 219 |
| | 2010 | 1.80 | 202 |
| | 2015 | 1.80 | 193 |
| | 2020 | 1.80 | 184 |
| | 2025 | 1.80 | 168 |
| | 2030 | 1.80 | 152 |
| | 2035 | 1.80 | 144 |
| | 2040 | 1.80 | 120 |
| | 2045 | 1.80 | 105 |
| | 2050 | 1.80 | 98 |
| 2055 | 1.80 | 90 | |
| 2100 | 1.80 | 83 | |
| 2105 | 1.80 | 76 | |
| 2200 | 1.80 | - | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08020800 Grace Creek tributary at Longview, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| Mar. 1, 1972 | 1600 | 0 | - |
| | 1645 | 0 | - |
| | 1700 | .55 | - |
| | 1715 | .95 | 90 |
| | 1720 | 1.10 | 147 |
| | 1725 | 1.25 | 206 |
| | 1730 | 1.35 | 386 |
| | 1735 | 1.40 | 498 |
| | 1740 | 1.45 | 554 |
| | 1745 | 1.45 | 582 |
| | 1750 | 1.45 | 610 |
| | 1755 | 1.45 | 582 |
| | 1800 | 1.50 | 554 |
| | 1815 | 1.50 | 470 |
| | 1830 | 1.50 | 330 |
| | 1845 | 1.50 | 278 |
| | 1900 | 1.50 | 278 |
| | 2000 | 1.55 | 278 |
| | 2100 | 1.55 | 278 |
| | 2200 | 1.55 | 252 |
| Mar. 2 | 2300 | 1.55 | 206 |
| | 2400 | 1.55 | 166 |
| | 0100 | 1.55 | 166 |
| | 0200 | 1.55 | 128 |
| | 0300 | 1.55 | 109 |
| | 0400 | 1.55 | 109 |
| May 1 | 0430 | 1.55 | 90 |
| | 0500 | 1.55 | - |
| | 0300 | 0 | - |
| | 0330 | 0 | - |
| | 0345 | .10 | - |
| | 0350 | .20 | 109 |
| | 0355 | .50 | 147 |
| | 0400 | .65 | 186 |
| | 0405 | .75 | 228 |
| | 0410 | .95 | 304 |
| 0415 | 1.00 | 414 | |
| 0420 | 1.00 | 498 | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08020800 Grace Creek tributary at Longview, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|-------------------|--------|----------------------------------|-----------------------------------|
| May 1, 1972--Con. | 0425 | 1.00 | 498 |
| | 0430 | 1.05 | 498 |
| | 0435 | 1.05 | 498 |
| | 0440 | 1.05 | 442 |
| | 0445 | 1.05 | 414 |
| | 0450 | 1.05 | 330 |
| | 0455 | 1.05 | 278 |
| | 0500 | 1.05 | 252 |
| | 0515 | 1.10 | 166 |
| | 0530 | 1.10 | 147 |
| | 0545 | 1.10 | 109 |
| | 0600 | 1.10 | - |
| | May 12 | 0700 | 0 |
| 0800 | | .15 | - |
| 0830 | | .45 | 90 |
| 0840 | | .45 | 109 |
| 0850 | | .50 | 128 |
| 0900 | | .50 | 147 |
| 0910 | | .50 | 128 |
| 0920 | | .50 | 128 |
| 0930 | | .50 | 90 |
| 1000 | | .50 | - |
| July 19 | 1100 | 0 | - |
| | 1130 | 0 | - |
| | 1145 | .05 | - |
| | 1200 | .85 | 109 |
| | 1210 | .90 | 128 |
| | 1215 | .90 | 186 |
| | 1220 | .90 | 252 |
| | 1225 | .90 | 358 |
| | 1230 | .90 | 386 |
| | 1235 | .90 | 386 |
| | 1240 | .90 | 386 |
| | 1245 | .90 | 358 |
| | 1250 | .90 | 278 |
| | 1255 | .90 | 228 |
| | 1300 | .90 | 186 |
| 1310 | .90 | 147 | |
| 1320 | .95 | 109 | |
| 1400 | 1.00 | - | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08028505 Moore Branch near Newton, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| June 14, 1972 | 1900 | 0 | - |
| | 2000 | .80 | - |
| June 15 | 1300 | .80 | - |
| | 1340 | .80 | - |
| | 1400 | 1.90 | 27 |
| | 1430 | 2.30 | 38 |
| | 1500 | 2.35 | 52 |
| | 1530 | 2.35 | 82 |
| | 1600 | 2.35 | 89 |
| | 1700 | 2.35 | 82 |
| | 1800 | 2.35 | 64 |
| | 2000 | 2.35 | 47 |
| | 2200 | 2.35 | 42 |
| 2400 | 2.35 | 34 | |
| June 16 | 0300 | 2.35 | 27 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08033480 Greenwood Creek tributary near Colmesneil, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Mar. 20, 1972 | 1600 | 0 | 0 |
| | 1700 | 1.00 | 2 |
| | 1730 | 1.70 | 15 |
| | 1745 | 2.50 | 30 |
| | 1800 | 3.80 | 56 |
| | 1815 | 3.95 | 100 |
| | 1830 | 4.10 | 78 |
| | 1845 | 4.15 | 30 |
| | 1900 | 4.20 | 15 |
| | 2000 | 4.40 | 10 |
| | 2100 | 4.55 | 6 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08059200 Arls Branch near Westminster, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Mar. 24, 1972 | 0100 | 0 | - |
| | 0130 | .05 | - |
| | 0200 | .70 | - |
| | 0205 | .70 | - |
| | 0210 | .80 | 55 |
| | 0215 | .80 | 66 |
| | 0220 | .80 | 79 |
| | 0225 | .80 | 93 |
| | 0230 | .85 | 86 |
| | 0235 | 1.05 | 79 |
| | 0240 | 1.55 | 72 |
| | 0245 | 1.60 | 66 |
| | 0250 | 1.60 | 60 |
| | 0255 | 1.65 | 55 |
| | 0300 | 1.65 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08063005 Red Oak Branch near Eustace, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|---------|----------------------------------|-----------------------------------|
| June 21, 1972 | 1700 | 0 | - |
| | 1715 | .55 | - |
| | 1730 | .95 | - |
| | 1745 | 1.05 | - |
| | 1800 | 1.05 | - |
| | 1900 | 1.10 | 16 |
| | 1915 | 1.10 | 20 |
| | 1930 | 1.10 | 24 |
| | 2000 | 1.10 | 24 |
| | 2100 | 1.10 | 24 |
| | 2200 | 1.10 | 24 |
| | 2300 | 1.10 | 24 |
| | 2400 | 1.10 | 24 |
| | June 22 | 0100 | 1.10 |
| 0200 | | 1.10 | 20 |
| 0230 | | 1.10 | 16 |
| 0300 | | 1.10 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08063550 Alvarado Branch near Alvarado, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| July 4, 1972 | 0200 | 0 | - |
| | 0230 | 0 | - |
| | 0245 | .15 | - |
| | 0300 | .75 | - |
| | 0310 | 1.05 | 46 |
| | 0315 | 1.25 | 55 |
| | 0330 | 1.45 | 66 |
| | 0345 | 1.55 | 112 |
| | 0400 | 1.55 | 268 |
| | 0415 | 1.55 | 342 |
| | 0430 | 1.55 | 282 |
| | 0445 | 1.55 | 212 |
| | 0500 | 1.55 | 136 |
| | 0515 | 1.55 | 112 |
| | 0530 | 1.55 | 66 |
| | 0545 | 1.55 | 46 |
| | 0600 | 1.55 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08066280 Bluff Creek tributary near Livingston, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Mar. 21, 1972 | 1400 | 0 | - |
| | 1500 | .05 | - |
| | 1600 | .20 | - |
| | 1700 | .25 | 0 |
| | 1745 | .75 | 3 |
| | 1800 | 1.00 | 8 |
| | 1830 | 1.50 | 25 |
| | 1900 | 1.60 | 29 |
| | 2000 | 1.80 | 25 |
| | 2100 | 2.05 | 22 |
| | 2200 | 2.15 | 16 |
| | 2300 | 2.25 | 11 |
| | 2400 | 2.30 | 8 |
| Mar. 22 | 0200 | 2.30 | 5 |
| | 0400 | 2.30 | 4 |
| | 0700 | 2.30 | 3 |
| May 1 | 1100 | 0 | 0 |
| | 1130 | .10 | 0 |
| | 1200 | .85 | 0 |
| | 1230 | 1.40 | 3 |
| | 1300 | 1.80 | 20 |
| | 1330 | 2.10 | 52 |
| | 1400 | 2.10 | 46 |
| | 1500 | 2.10 | 35 |
| | 1600 | 2.10 | 20 |
| | 1700 | 2.10 | 8 |
| | 1900 | 2.10 | 5 |
| 2100 | 2.10 | 3 | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08067750 Landrum Creek tributary near Montgomery, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Mar. 20, 1972 | 1300 | 0 | - |
| | 1400 | .35 | - |
| | 1500 | .90 | - |
| | 1515 | 1.00 | - |
| | 1530 | 1.20 | - |
| | 1545 | 1.65 | 14 |
| | 1600 | 2.25 | 18 |
| | 1615 | 2.28 | 44 |
| | 1630 | 2.30 | 24 |
| | 1645 | 2.30 | 16 |
| | 1700 | 2.30 | 14 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08077550 Cowart Creek near Friendswood, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| Dec. 5, 1971 | 0330 | 0 | - |
| | 0400 | .25 | 10 |
| | 0500 | .45 | 30 |
| | 0530 | .75 | 100 |
| | 0600 | 1.45 | 243 |
| | 0700 | 1.90 | 375 |
| | 0800 | 2.65 | 417 |
| | 0900 | 2.85 | 440 |
| | 1100 | 3.15 | 452 |
| | 1300 | 3.25 | 476 |
| | 1600 | 3.25 | 465 |
| | 2000 | 3.25 | 417 |
| | 2400 | 3.25 | 398 |
| Dec. 6 | 0600 | 3.25 | 318 |
| | 1200 | 3.25 | 225 |
| | 1800 | 3.25 | 175 |
| | 2400 | 3.25 | 90 |
| May 10, 1972 | 1400 | - | - |
| | 1600 | - | - |
| | 1730 | - | - |
| | 1800 | - | - |
| | 1830 | - | 195 |
| | 1845 | - | 550 |
| | 1900 | - | 920 |
| | 2000 | - | 1,240 |
| | 2030 | - | 1,320 |
| | 2100 | - | 1,360 |
| | 2200 | - | 1,380 |
| 2400 | - | 1,340 | |
| May 11 | 0300 | - | 1,210 |
| | 0600 | - | 1,100 |
| | 1200 | - | 856 |
| | 1800 | - | 718 |
| | 2400 | - | 648 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08077550 Cowart Creek near Friendswood, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| May 12, 1972 | 0200 | - | 732 |
| | 0500 | - | 760 |
| | 0600 | - | 840 |
| | 0700 | - | 938 |
| | 1000 | - | 956 |
| | 1400 | - | 920 |
| | 1800 | - | 792 |
| | 2400 | - | 648 |
| May 13 | 0600 | - | 536 |
| | 1200 | - | 390 |
| | 1800 | - | 268 |
| | 2400 | - | 195 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08090850 Cidwell Branch near Granbury, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Apr. 27, 1972 | 2100 | 0 | - |
| | 2115 | .45 | - |
| | 2130 | .80 | - |
| | 2145 | .80 | - |
| | 2200 | .80 | 44 |
| | 2205 | .80 | 56 |
| | 2210 | .80 | 62 |
| | 2215 | .80 | 74 |
| | 2220 | .80 | 74 |
| | 2225 | .80 | 74 |
| | 2230 | .80 | 81 |
| | 2235 | .80 | 74 |
| | 2240 | .80 | 74 |
| | 2245 | .80 | 68 |
| | 2250 | .80 | 68 |
| | 2255 | .80 | 62 |
| | 2300 | .80 | 62 |
| | 2305 | .80 | 56 |
| | 2310 | .80 | 56 |
| | 2315 | .80 | 50 |
| 2320 | .80 | 44 | |
| 2400 | .80 | - | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08093200 Bond Branch near Hillsboro, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| May 12, 1972 | 0500 | 0 | - |
| | 0515 | 0 | 34 |
| | 0530 | .20 | 41 |
| | 0545 | .30 | 48 |
| | 0600 | .40 | 55 |
| | 0615 | .60 | 62 |
| | 0630 | .90 | 62 |
| | 0645 | 1.10 | 62 |
| | 0700 | 1.30 | 55 |
| | 0730 | 1.40 | 38 |
| | 0800 | 1.40 | 38 |
| | 0830 | 1.40 | 34 |
| | 0900 | 1.40 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08095220 South Bosque River near McGregor, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Dec. 14, 1971 | 0800 | 0 | - |
| | 0810 | .10 | - |
| | 0820 | .42 | - |
| | 0830 | .47 | - |
| | 0840 | .51 | - |
| | 0850 | .54 | - |
| | 0900 | .55 | - |
| | 0930 | .56 | - |
| | 1000 | .69 | - |
| | 1030 | .77 | <68 |
| | 1100 | .89 | 68 |
| | 1130 | .90 | 110 |
| | 1135 | .90 | 128 |
| | 1140 | .90 | 146 |
| | 1145 | .91 | 164 |
| | 1150 | .91 | 204 |
| | 1155 | .91 | 239 |
| | 1200 | .92 | 250 |
| | 1215 | .92 | 299 |
| | 1230 | .92 | 294 |
| | 1245 | .92 | 287 |
| | 1300 | .92 | 275 |
| | 1330 | .92 | 264 |
| | 1400 | .92 | 251 |
| | 1430 | .92 | 227 |
| | 1500 | .92 | 204 |
| | 1530 | .92 | 194 |
| 1600 | .92 | 184 | |
| 1630 | .92 | 164 | |
| 1700 | .92 | 146 | |
| 1730 | .92 | 128 | |
| 1800 | .92 | 110 | |
| 1830 | .92 | 96 | |
| 1900 | .92 | 82 | |
| 2000 | .92 | <68 | |

< Less than amount shown.

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08114900 Seabourne Creek near Rosenberg, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Jan. 29, 1972 | 2130 | 0 | - |
| | 2230 | .30 | - |
| | 2300 | .90 | 3 |
| | 2400 | 1.05 | 8 |
| Jan. 31 | 0100 | 0 | 22 |
| | 0130 | .05 | 26 |
| | 0200 | .50 | 34 |
| | 0300 | .55 | 126 |
| | 0400 | .55 | 177 |
| | 0500 | .55 | 175 |
| | 0600 | .55 | 166 |
| | 0700 | .55 | 157 |
| | 0900 | .55 | 149 |
| | 1200 | .55 | 142 |
| | 1500 | .55 | 105 |
| | 1800 | .55 | 70 |
| | 2400 | .55 | 43 |
| Feb. 1 | 0600 | 1.75 | 22 |
| | 1200 | 1.75 | 16 |
| | 2400 | 1.75 | 12 |
| Feb. 10 | 1900 | 0 | - |
| | 2000 | .05 | - |
| | 2200 | .30 | - |
| | 2400 | .65 | - |
| Feb. 11 | 0100 | .80 | 5 |
| | 0200 | .90 | 19 |
| | 0300 | 1.20 | 43 |
| | 0400 | 1.45 | 115 |
| | 0500 | 1.65 | 166 |
| | 0600 | 1.80 | 212 |
| | 0800 | 1.90 | 192 |
| | 1000 | 2.05 | 175 |
| | 1200 | 2.10 | 149 |
| | 1500 | 2.10 | 112 |
| | 1800 | 2.10 | 74 |
| | 2400 | 2.20 | 52 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08114900 Seabourne Creek near Rosenberg, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Feb. 12, 1972 | 0600 | 2.20 | 34 |
| | 1200 | 2.20 | 26 |
| | 1800 | 2.20 | 16 |
| | 2400 | 2.20 | 10 |
| Apr. 27 | 0900 | 0 | - |
| | 1100 | .26 | - |
| | 1345 | .26 | - |
| | 1415 | .50 | - |
| | 1430 | 1.23 | 5 |
| | 1445 | 1.56 | 7 |
| | 1500 | 1.68 | 18 |
| | 1530 | 1.75 | 34 |
| | 1600 | 1.75 | 112 |
| | 1700 | 1.75 | 202 |
| | 1800 | 1.75 | 276 |
| | 1900 | 1.75 | 300 |
| | 2000 | 1.75 | 288 |
| 2200 | 1.75 | 276 | |
| 2400 | 1.75 | 230 | |
| Apr. 28 | 0600 | 1.75 | 135 |
| | 1200 | 1.75 | 105 |
| | 1800 | 1.75 | 68 |
| | 2400 | 1.75 | 47 |
| Apr. 29 | 0600 | 1.75 | 30 |
| | 1200 | 1.75 | 22 |
| | 1800 | 1.75 | 14 |
| | 2400 | 1.75 | 10 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08116400 Dry Creek near Rosenberg, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| Oct. 5, 1971 | 1330 | 0 | - |
| | 1400 | 1.45 | 0.4 |
| | 1430 | 2.30 | 3 |
| | 1500 | 2.32 | 24 |
| | 1600 | 2.40 | 55 |
| | 1700 | 2.50 | 106 |
| | 1800 | 2.50 | 175 |
| | 1900 | 2.50 | 210 |
| | 2000 | 2.50 | 210 |
| | 2400 | 2.50 | 134 |
| Oct. 6, 1972 | 0400 | 2.50 | 90 |
| | 1200 | 2.50 | 49 |
| | 2000 | 2.50 | 26 |
| | 2400 | 2.50 | 20 |
| Jan. 29 | 1600 | 0 | 0 |
| | 1700 | .10 | 0 |
| | 2200 | .10 | 0 |
| | 2300 | .25 | 0 |
| | 2400 | .90 | 0 |
| Jan. 30 | 0200 | 1.20 | 0 |
| | 0300 | 1.98 | 21 |
| | 0400 | 2.10 | 190 |
| | 0500 | 2.22 | 374 |
| | 0600 | 2.26 | 480 |
| | 0700 | 2.33 | 508 |
| | 0800 | 2.45 | 480 |
| | 1000 | 2.58 | 424 |
| | 1200 | 2.80 | 362 |
| | 1300 | 2.80 | 350 |
| | 1500 | 2.80 | 290 |
| | 1800 | 2.80 | 195 |
| | 2100 | 2.80 | 142 |
| 2400 | 2.80 | 102 | |
| Jan. 31 | 0600 | 2.80 | 58 |
| | 1200 | 2.80 | 33 |
| | 1800 | 2.80 | 23 |
| | 2400 | 2.80 | 19 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08116400 Dry Creek near Rosenberg, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| May 10, 1972 | 1400 | 0 | 32 |
| | 1500 | .18 | 32 |
| | 1700 | .55 | 67 |
| | 1800 | 1.10 | 210 |
| | 1900 | 1.60 | 438 |
| | 2000 | 2.25 | 662 |
| | 2100 | 2.35 | 744 |
| | 2200 | 2.40 | 766 |
| | 2400 | 2.55 | 678 |
| May 11 | 0300 | 2.55 | 438 |
| | 0600 | 2.55 | 270 |
| | 0900 | 2.55 | 170 |
| | 1200 | 2.62 | 130 |
| | 1800 | 2.62 | 62 |
| | 2400 | 2.62 | 29 |
| May 12 | 0400 | 2.62 | 22 |
| | 0500 | 2.62 | 44 |
| | 0530 | 2.62 | (170) |
| | 0600 | 3.70 | 374 |
| | 0700 | 4.55 | 630 |
| | 0900 | 4.55 | 720 |
| | 1100 | 4.55 | 614 |
| | 1300 | 4.60 | 424 |
| | 1500 | 4.60 | 326 |
| | 2100 | 4.93 | 190 |
| 2400 | 4.93 | 138 | |
| May 13 | 0600 | 4.93 | 68 |
| | 1200 | 4.93 | 31 |
| | 1800 | 4.93 | 18 |
| | 2400 | 4.93 | 15 |

() Estimated.

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08168720 Trough Creek near New Braunfels, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| Dec. 4, 1971 | 2320 | 0 | - |
| | 2345 | .7 | - |
| Dec. 5 | 0045 | .8 | - |
| | 0055 | 1.1 | - |
| | 0145 | 1.2 | - |
| | 0300 | 1.4 | 49 |
| | 0310 | 1.4 | 56 |
| | 0320 | 1.4 | 62 |
| | 0400 | 1.5 | 56 |
| | 0415 | 1.5 | 49 |
| | 2200 | 1.6 | - |
| | 2215 | 1.7 | - |
| | 2400 | 1.7 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08169850 East Pecan Branch near Gonzales, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|-------------|------|----------------------------------|-----------------------------------|
| May 5, 1972 | 0000 | 0 | - |
| | 1345 | 0 | - |
| | 1400 | .3 | - |
| | 1445 | .6 | - |
| | 2400 | .6 | - |
| May 6 | 0130 | .6 | 7.8 |
| | 0145 | .7 | 33 |
| | 0155 | .8 | 44 |
| | 0205 | .8 | 38 |
| | 0220 | 1.0 | 33 |
| | 0230 | 1.1 | 20 |
| | 0250 | 1.1 | 15 |
| | 0300 | 1.2 | 11 |
| | 0315 | 1.3 | 49 |
| | 0330 | 1.4 | 157 |
| | 0340 | 1.4 | 175 |
| | 0400 | 1.8 | 127 |
| | 0415 | 2.3 | 60 |
| | 0430 | 2.7 | 11 |
| | 0445 | 2.8 | 7.8 |
| | 1015 | 2.8 | - |
| | 1045 | 2.9 | - |
| 1230 | 3.3 | - | |
| 2400 | 3.3 | - | |
| May 7 | 0000 | 0 | - |
| | 0200 | .1 | - |
| | 0330 | .5 | - |
| | 0345 | 1.0 | - |
| | 0400 | 1.1 | 7.8 |
| | 0410 | 1.1 | 11 |
| | 0415 | 1.1 | 15 |
| | 0420 | 1.1 | 20 |
| | 0430 | 1.1 | 15 |
| | 0440 | 1.2 | 11 |
| | 0445 | 1.2 | 7.8 |
| | 0515 | 1.3 | - |
| | 1000 | 1.4 | - |
| | 1300 | 1.7 | - |
| 2400 | 1.7 | - | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08169850 East Pecan Branch near Gonzales, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| May 10, 1972 | 0845 | 0 | - |
| | 0900 | .2 | - |
| | 1005 | .4 | - |
| | 1010 | .5 | - |
| | 1030 | .5 | - |
| | 1035 | .7 | 7.8 |
| | 1045 | .8 | 26 |
| | 1100 | 1.9 | 101 |
| | 1105 | 1.9 | 106 |
| | 1115 | 1.9 | 88 |
| | 1130 | 2.0 | 26 |
| | 1145 | 2.0 | 17 |
| | 1150 | 2.2 | 20 |
| | 1200 | 2.3 | 20 |
| | 1215 | 2.3 | 15 |
| | 1240 | 2.3 | 7.8 |
| | 1325 | 2.4 | - |
| | 1400 | 2.7 | - |
| | 1445 | 3.4 | - |
| 2400 | 3.4 | - | |
| May 11 | 1330 | - | 7.8 |
| | 1335 | - | 11 |
| | 1400 | - | 20 |
| | 1425 | - | 54 |
| | 1445 | - | 101 |
| | 1455 | - | 114 |
| | 1525 | - | 60 |
| | 1535 | - | 38 |
| | 1635 | - | 11 |
| 1645 | - | 7.8 | |
| May 14 | 0050 | 0 | - |
| | 0055 | .2 | - |
| | 0100 | .3 | - |
| | 0130 | .3 | - |
| | 0135 | .4 | - |
| | 0230 | .4 | 7.4 |
| | 0240 | .7 | 14 |
| | 0255 | .9 | 24 |
| | 0315 | .9 | 14 |
| | 0335 | .9 | 10 |
| | 0350 | 1.0 | 7.4 |
| | 2400 | 1.0 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08176200 Irish Creek near Cuero, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Oct. 17, 1971 | 0355 | 0 | - |
| | 0400 | .01 | - |
| | 0410 | .02 | - |
| | 0415 | .08 | - |
| | 0420 | .08 | - |
| | 0430 | .15 | - |
| | 0435 | .17 | - |
| | 0445 | .18 | - |
| | 0450 | .25 | - |
| | 0455 | .28 | - |
| | 0600 | .28 | - |
| | 0645 | .28 | 22 |
| | 0655 | .28 | 31 |
| | 0700 | .28 | 40 |
| | 0715 | .28 | 51 |
| | 0720 | .29 | 51 |
| | 0730 | .29 | 51 |
| | 0800 | .32 | 51 |
| | 0815 | .35 | 61 |
| | 0825 | .37 | 81 |
| | 0830 | .39 | 128 |
| | 0835 | .41 | 155 |
| | 0845 | .42 | 255 |
| | 0900 | .43 | 310 |
| | 0915 | .48 | 380 |
| | 0930 | .52 | 430 |
| | 0955 | .54 | 430 |
| | 1000 | .55 | 400 |
| | 1010 | .56 | 400 |
| | 1100 | .56 | 295 |
| 1200 | .58 | 200 | |
| 1300 | .59 | 155 | |
| 1400 | .60 | 128 | |
| 1500 | .61 | 105 | |
| 1600 | .61 | 81 | |
| 1800 | .61 | 51 | |
| 2000 | .61 | 40 | |
| 2100 | .62 | 31 | |
| 2245 | .62 | 22 | |
| 2330 | .62 | - | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08176200 Irish Creek near Cuero, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Oct. 18, 1971 | 0015 | 0.65 | - |
| | 0045 | .68 | - |
| | 0100 | .71 | - |
| | 0130 | .74 | - |
| | 0200 | .81 | - |
| | 0215 | .82 | - |
| | 0300 | .88 | - |
| | 0330 | .90 | - |
| | 0400 | .98 | - |
| | 0445 | 1.06 | - |
| | 0500 | 1.09 | - |
| | 0545 | 1.19 | - |
| | 0600 | 1.20 | - |
| | 0615 | 1.21 | - |
| | 0630 | 1.21 | - |
| | 0700 | 1.26 | - |
| | 0730 | 1.31 | - |
| | 0750 | 1.33 | - |
| | 0845 | 1.37 | - |
| | 0900 | 1.37 | 24 |
| | 1000 | 1.38 | 32 |
| | 1100 | 1.38 | 42 |
| | 1130 | 1.40 | 52 |
| | 1135 | 1.40 | 52 |
| 1145 | 1.48 | 52 | |
| 1200 | 1.55 | 62 | |
| 1600 | 1.55 | 62 | |
| 1800 | 1.55 | 52 | |
| 2030 | 1.55 | 42 | |
| 2130 | 1.55 | 32 | |
| 2245 | 1.55 | 24 | |
| 2400 | 1.55 | - | |
| Feb. 10, 1972 | 1815 | 0 | - |
| | 1830 | .02 | - |
| | 1840 | .03 | - |
| | 1900 | .04 | - |
| | 1915 | .06 | - |
| | 1930 | .12 | - |
| | 1945 | .13 | - |
| | 2030 | .15 | - |
| 2050 | .17 | - | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08176200 Irish Creek near Cuero, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------------|---------|----------------------------------|-----------------------------------|
| Feb. 10, 1972--Con. | 2130 | 0.18 | - |
| | 2140 | .18 | - |
| | 2215 | .24 | - |
| | 2230 | .26 | - |
| | 2235 | .27 | - |
| | 2245 | .27 | - |
| | 2305 | .28 | - |
| | 2315 | .35 | - |
| | 2325 | .35 | - |
| | 2330 | .36 | - |
| | 2340 | .44 | - |
| | 2345 | .44 | - |
| | 2400 | .50 | - |
| | Feb. 11 | 0010 | .50 |
| 0025 | | .51 | - |
| 0030 | | .52 | - |
| 0035 | | .52 | - |
| 0045 | | .53 | - |
| 0100 | | .62 | - |
| 0115 | | .68 | - |
| 0120 | | .70 | - |
| 0125 | | .77 | - |
| 0135 | | .77 | - |
| 0140 | | .79 | - |
| 0220 | | .80 | - |
| 0225 | | .84 | 17 |
| 0230 | | .86 | 22 |
| 0255 | | .86 | 28 |
| 0300 | | .88 | 34 |
| 0315 | | .88 | 41 |
| 0420 | | .90 | 49 |
| 0445 | | .92 | 57 |
| 0510 | | .94 | 65 |
| 0525 | | .99 | 74 |
| 0530 | .99 | 85 | |
| 0535 | .99 | 85 | |
| 0600 | 1.06 | 108 | |
| 0610 | 1.06 | 108 | |
| 0615 | 1.07 | 120 | |
| 0630 | 1.07 | 120 | |
| 0700 | 1.07 | 132 | |
| 0800 | 1.07 | 147 | |
| 0900 | 1.07 | 147 | |
| 0915 | 1.07 | 132 | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08176200 Irish Creek near Cuero, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------------|------|----------------------------------|-----------------------------------|
| Feb. 11, 1972--Con. | 1000 | 1.07 | 132 |
| | 1030 | 1.08 | 120 |
| | 1130 | 1.08 | 96 |
| | 1315 | 1.08 | 74 |
| | 1415 | 1.08 | 65 |
| | 1445 | 1.08 | 65 |
| | 1455 | 1.08 | 57 |
| | 1540 | 1.08 | 57 |
| | 1600 | 1.09 | 49 |
| | 1630 | 1.09 | 49 |
| | 1730 | 1.09 | 41 |
| | 1900 | 1.09 | 41 |
| | 2200 | 1.09 | 34 |
| | 2400 | 1.09 | 34 |
| Feb. 12 | 0100 | 1.09 | 28 |
| | 0330 | 1.09 | 22 |
| | 0430 | 1.09 | 17 |
| May 5 | 1900 | 0 | - |
| | 1945 | .01 | - |
| | 2000 | .03 | - |
| | 2100 | .04 | - |
| | 2200 | .05 | - |
| May 6 | 0030 | .05 | - |
| | 0100 | .07 | - |
| | 0115 | .09 | - |
| | 0220 | .10 | - |
| | 0255 | .25 | - |
| | 0305 | .26 | - |
| | 0310 | .29 | - |
| | 0330 | .30 | - |
| | 0335 | .42 | - |
| | 0400 | .60 | - |
| | 0415 | .81 | - |
| | 0430 | .91 | - |
| | 0435 | 1.03 | - |
| | 0450 | 1.06 | - |
| | 0455 | 1.10 | - |
| 0510 | 1.14 | - | |
| 0515 | 1.17 | - | |
| 0535 | 1.18 | - | |
| 0610 | 1.27 | - | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08176200 Irish Creek near Cuero, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|-------------------|------|----------------------------------|-----------------------------------|
| May 6, 1972--Con. | 1100 | 1.27 | 20 |
| | 1115 | 1.27 | 31 |
| | 1130 | 1.27 | 37 |
| | 1140 | 1.28 | 37 |
| | 1150 | 1.35 | 37 |
| | 1155 | 1.35 | 37 |
| | 1210 | 1.50 | 37 |
| | 1220 | 1.60 | 37 |
| | 1230 | 1.67 | 44 |
| | 1330 | 1.81 | 44 |
| | 1345 | 1.82 | 44 |
| | 1445 | 2.02 | 44 |
| | 1500 | 2.04 | 53 |
| | 1530 | 2.08 | 61 |
| | 1545 | 2.11 | 61 |
| | 1630 | 2.24 | 70 |
| | 1645 | 2.26 | 70 |
| | 1700 | 2.31 | 70 |
| | 1715 | 2.32 | 80 |
| | 1730 | 2.36 | 90 |
| | 1800 | 2.37 | 103 |
| | 1900 | 2.38 | 103 |
| | 1915 | 2.38 | 90 |
| 1945 | 2.38 | 80 | |
| 2045 | 2.38 | 70 | |
| 2145 | 2.38 | 61 | |
| 2330 | 2.38 | 44 | |
| May 7 | 0200 | 2.38 | 31 |
| | 0245 | 2.38 | 31 |
| | 0300 | 2.38 | 44 |
| | 0310 | 2.38 | 103 |
| | 0330 | 2.38 | 200 |
| | 0345 | 2.38 | 250 |
| | 0405 | 2.38 | 420 |
| | 0410 | 2.41 | 475 |
| | 0415 | 2.69 | 540 |
| | 0420 | 2.75 | 610 |
| | 0430 | 3.15 | 1,230 |
| | 0440 | 4.55 | 1,680 |
| | 0500 | 4.77 | 2,850 |
| | 0510 | 4.95 | 3,300 |
| 0515 | 5.06 | 3,300 | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08176200 Irish Creek near Cuero, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|-------------------|------|----------------------------------|-----------------------------------|
| May 7, 1972--Con. | 0530 | 5.08 | 3,300 |
| | 0600 | 5.09 | 2,850 |
| | 0645 | 5.09 | 1,680 |
| | 0730 | 5.10 | 840 |
| | 0800 | 5.10 | 610 |
| | 0915 | 5.10 | 295 |
| | 0950 | 5.11 | 295 |
| | 1000 | 5.22 | 295 |
| | 1015 | 5.22 | 332 |
| | 1030 | 5.22 | 610 |
| | 1035 | 5.23 | 780 |
| | 1045 | 5.30 | 1,230 |
| | 1100 | 6.25 | 1,800 |
| | 1115 | 7.30 | 2,200 |
| | 1125 | 7.52 | 2,500 |
| | 1135 | 7.53 | 2,850 |
| | 1140 | 7.54 | 3,300 |
| | 1145 | 7.56 | 3,500 |
| | 1155 | 7.56 | 3,700 |
| | 1230 | 7.57 | 3,700 |
| | 1250 | 7.57 | 3,500 |
| | 1300 | 7.65 | 3,500 |
| | 1315 | 7.65 | 3,500 |
| | 1355 | 7.65 | 3,050 |
| 1400 | 7.66 | 2,850 | |
| 1430 | 7.66 | 2,200 | |
| 1500 | 7.66 | 1,470 | |
| 1600 | 7.66 | 645 | |
| 1700 | 7.66 | 375 | |
| 1800 | 7.66 | 270 | |
| 1900 | 7.66 | 200 | |
| 2000 | 7.66 | 152 | |
| 2200 | 7.66 | 103 | |
| 2400 | 7.66 | 70 | |
| May 8 | 0200 | 7.66 | 53 |
| | 0400 | 7.66 | 44 |
| | 0800 | 7.66 | 31 |
| | 1015 | 7.66 | 24 |
| | 1130 | 7.66 | 20 |
| May 10 | 0915 | 0 | - |
| | 0920 | .01 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08176200 Irish Creek near Cuero, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------------|------|----------------------------------|-----------------------------------|
| May 10, 1972--Con. | 1200 | 0.02 | - |
| | 1300 | .03 | - |
| | 1310 | .04 | - |
| | 1330 | .10 | - |
| | 1335 | .12 | - |
| | 1350 | .14 | - |
| | 1415 | .53 | - |
| | 1430 | .96 | - |
| | 1445 | 1.45 | - |
| | 1450 | 1.61 | 44 |
| | 1500 | 1.92 | 52 |
| | 1515 | 2.21 | 78 |
| | 1530 | 2.75 | 152 |
| | 1545 | 2.80 | 450 |
| | 1600 | 2.93 | 1,220 |
| | 1615 | 3.06 | 2,050 |
| | 1630 | 3.19 | 2,700 |
| | 1645 | 3.20 | 3,250 |
| | 1650 | 3.20 | 3,700 |
| | 1655 | 3.21 | 4,850 |
| | 1700 | 3.21 | 5,200 |
| | 1705 | 3.22 | 6,000 |
| | 1730 | 3.25 | 6,000 |
| | 1845 | 3.25 | 6,000 |
| | 1900 | 3.25 | 6,000 |
| | 2000 | 3.25 | 4,850 |
| 2030 | 3.25 | 4,200 | |
| 2100 | 3.25 | 3,500 | |
| 2115 | 3.25 | 3,100 | |
| 2130 | 3.25 | 2,500 | |
| 2145 | 3.25 | 2,180 | |
| 2200 | 3.25 | 1,670 | |
| 2300 | 3.25 | 780 | |
| 2400 | 3.25 | 470 | |
| May 11 | 0100 | 3.25 | 330 |
| | 0200 | 3.25 | 250 |
| | 0300 | 3.25 | 195 |
| | 0400 | 3.25 | 165 |
| | 0500 | 3.25 | 150 |
| | 0700 | 3.25 | 114 |
| | 0900 | 3.25 | 90 |
| | 1100 | 3.25 | 80 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08176200 Irish Creek near Cuero, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------------|------|----------------------------------|-----------------------------------|
| May 11, 1972--Con. | 1400 | 3.25 | 68 |
| | 1530 | 3.25 | 58 |
| | 1800 | 3.25 | 47 |
| | 2000 | 3.25 | 37 |
| May 12 | 0100 | 0 | - |
| | 0200 | .06 | - |
| | 0205 | .08 | - |
| | 0300 | .09 | - |
| | 0330 | .09 | - |
| | 0400 | .14 | - |
| | 0500 | .14 | - |
| | 0820 | .14 | - |
| | 0825 | .19 | - |
| | 0915 | .19 | 14 |
| | 0930 | .19 | 29 |
| | 0935 | .31 | 38 |
| | 0940 | .54 | 48 |
| | 0945 | .76 | 115 |
| | 0955 | 1.10 | 152 |
| | 1000 | 1.11 | 270 |
| | 1010 | 1.13 | 330 |
| | 1015 | 1.17 | 330 |
| | 1025 | 1.23 | 330 |
| | 1030 | 1.23 | 350 |
| | 1045 | 1.24 | 424 |
| | 1100 | 1.24 | 650 |
| | 1105 | 1.24 | 730 |
| | 1130 | 1.24 | 1,300 |
| 1145 | 1.24 | 1,470 | |
| 1200 | 1.24 | 1,600 | |
| 1230 | 1.24 | 1,600 | |
| 1300 | 1.24 | 1,230 | |
| 1400 | 1.24 | 650 | |
| 1500 | 1.24 | 400 | |
| 1600 | 1.24 | 250 | |
| 1700 | 1.24 | 182 | |
| 1800 | 1.24 | 140 | |
| 2100 | 1.24 | 92 | |
| 2400 | 1.24 | 70 | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08176200 Irish Creek near Cuero, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| May 13, 1972 | 0400 | 1.24 | 48 |
| | 0900 | 1.24 | 29 |
| | 1330 | 1.24 | 20 |
| | 1600 | 1.24 | 14 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08179200 Medina River tributary near Pipe Creek, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|-------------|------|----------------------------------|-----------------------------------|
| May 6, 1972 | 0000 | 0 | - |
| | 0455 | 0 | - |
| | 0500 | .2 | - |
| | 0610 | .3 | - |
| | 0640 | .4 | - |
| | 0655 | 1.3 | - |
| | 0830 | 1.4 | - |
| | 2200 | 1.4 | - |
| | 2215 | 1.6 | - |
| | 2230 | 1.6 | - |
| | 2245 | 1.7 | - |
| | 2305 | 1.8 | - |
| | 2315 | 2.1 | - |
| | 2325 | 2.2 | - |
| | 2345 | 2.3 | - |
| May 7 | 0025 | 2.4 | - |
| | 0600 | 2.5 | - |
| | 0605 | 2.6 | - |
| | 0610 | 4.2 | - |
| | 0625 | 5.0 | - |
| | 0635 | 5.1 | <45 |
| | 0700 | 5.1 | 45 |
| | 0710 | 5.1 | 65 |
| | 0715 | 5.1 | 250 |
| | 0720 | 5.1 | 420 |
| | 0725 | 5.1 | 370 |
| | 0730 | 5.2 | 260 |
| | 0735 | 5.2 | 205 |
| | 0740 | 5.2 | 165 |
| | 0745 | 5.2 | 132 |
| | 0800 | 5.2 | 86 |
| | 0810 | 5.2 | 65 |
| | 0815 | 5.2 | 56 |
| 0820 | 5.2 | 45 | |
| 2400 | 5.2 | <45 | |

< Less than amount shown.

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08188400 Baugh Creek at Goliad, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| Aug. 2, 1972 | 1500 | 0 | - |
| | 1515 | .3 | - |
| | 1800 | .4 | - |
| | 1845 | .4 | 15 |
| | 1855 | .4 | 21 |
| | 1910 | .4 | 29 |
| | 1945 | .4 | 32 |
| | 2040 | .4 | 32 |
| | 2100 | .6 | 32 |
| | 2400 | .6 | 32 |
| Aug. 3 | 0500 | .6 | 32 |
| | 0745 | 1.0 | 32 |
| | 0800 | 1.5 | 32 |
| | 2000 | 1.5 | 32 |
| | 2030 | 1.5 | 29 |
| | 2230 | 1.5 | 25 |
| | 2400 | 1.5 | 25 |
| Aug. 4 | 0200 | 1.5 | 21 |
| | 0300 | 1.5 | 15 |
| | 0430 | 1.5 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08194550 Plant Creek near Tilden, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|----------------|------|----------------------------------|-----------------------------------|
| Sept. 26, 1972 | 1745 | 0 | - |
| | 1750 | 1.0 | - |
| | 1800 | 1.5 | - |
| | 1805 | 1.9 | - |
| | 1830 | 2.2 | - |
| | 1845 | 2.9 | - |
| | 1900 | 3.0 | 112 |
| | 1915 | 3.0 | 128 |
| | 1930 | 3.0 | 120 |
| | 2015 | 3.1 | - |
| | 2030 | 3.1 | - |
| | 2400 | 3.3 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08207200 Rutledge Hollow Creek at Poteet, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|----------------|------|----------------------------------|-----------------------------------|
| Sept. 14, 1972 | 1700 | 0 | - |
| | 1730 | .2 | - |
| | 1745 | .7 | 0.18 |
| | 1750 | .9 | .26 |
| | 1800 | 1.1 | .36 |
| | 1810 | 1.2 | .84 |
| | 1815 | 1.3 | 4.3 |
| | 1830 | 1.4 | 18 |
| | 1845 | 1.4 | 38 |
| | 1900 | 1.5 | 102 |
| | 1930 | 1.5 | 115 |
| | 2000 | 1.5 | 130 |
| | 2030 | 1.5 | 115 |
| | 2400 | 1.5 | 38 |
| Sept. 15 | 0500 | 1.5 | 27 |
| | 0900 | 1.5 | 18 |
| | 1300 | 1.5 | 9.0 |
| | 2400 | 1.5 | 6.2 |
| Sept. 16 | 0800 | 1.5 | 4.3 |
| | 2400 | 1.5 | 2.0 |
| Sept. 17 | 1300 | 1.5 | .84 |
| | 2400 | 1.5 | .37 |
| Sept. 18 | 0500 | 1.5 | .18 |
| Sept. 23 | 1600 | 0 | - |
| | 1625 | .1 | - |
| | 1640 | .4 | - |
| | 1650 | .7 | - |
| | 1700 | 1.1 | - |
| | 1705 | 1.4 | .16 |
| | 1715 | 1.8 | .23 |
| | 1720 | 2.2 | 3.6 |
| | 1725 | 2.4 | 35 |
| | 1730 | 2.7 | 64 |
| | 1745 | 2.9 | 84 |
| | 1800 | 3.0 | 98 |
| | 1805 | 3.0 | 110 |
| | 1830 | 3.1 | - |
| 1845 | 3.8 | - | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08207200 Rutledge Hollow Creek at Poteet, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|----------------------|------|----------------------------------|-----------------------------------|
| Sept. 23, 1972--Con. | 1910 | 4.0 | - |
| | 2100 | 4.0 | 110 |
| | 2400 | 4.0 | 64 |
| Sept. 24 | 0300 | 4.0 | 46 |
| | 0600 | 4.0 | 35 |
| | 1100 | 4.0 | 25 |
| | 1600 | 4.0 | 15 |
| | 2400 | 4.0 | 15 |
| Sept. 25 | 0900 | 4.0 | 7.4 |
| | 1300 | 4.0 | 3.6 |
| | 2400 | 4.0 | 1.6 |
| Sept. 26 | 1300 | 4.0 | .72 |
| | 2400 | 4.0 | .34 |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08212320 North Las Animas Creek tributary near Freer, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|-------------|------|----------------------------------|-----------------------------------|
| May 9, 1972 | 0000 | 0 | - |
| | 1230 | .1 | - |
| | 1245 | .2 | - |
| | 1300 | .3 | 26 |
| | 1305 | .4 | 30 |
| | 1310 | .8 | 37 |
| | 1320 | .9 | 57 |
| | 1325 | 1.0 | 60 |
| | 1330 | 1.1 | 57 |
| | 1340 | 1.2 | 33 |
| | 1345 | 1.3 | 26 |
| | 1415 | 2.0 | - |
| | 2400 | 2.0 | - |
| Sept. 26 | 0000 | 0 | - |
| | 2020 | 0 | 24 |
| | 2025 | 0 | 27 |
| | 2030 | 0 | 34 |
| | 2035 | 0 | 36 |
| | 2040 | .1 | 34 |
| | 2045 | .2 | 31 |
| | 2050 | 1.7 | 27 |
| | 2055 | 1.8 | 24 |
| | 2100 | 1.9 | - |
| | 2200 | 2.2 | - |
| 2330 | 2.3 | - | |
| Sept. 27 | 0030 | 2.6 | - |
| | 0100 | 2.7 | - |
| | 2400 | 2.7 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08454900 East Perdido Creek near Brackettville, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|--------------|------|----------------------------------|-----------------------------------|
| Aug. 8, 1972 | 1015 | 0 | - |
| | 1030 | .2 | - |
| | 1045 | .4 | - |
| | 1100 | .6 | - |
| | 1145 | 2.0 | - |
| | 1210 | 2.6 | - |
| | 1245 | 2.6 | - |
| | 1300 | 2.6 | - |
| | 1315 | 2.6 | - |
| | 1415 | 2.6 | 30 |
| | 1515 | 2.6 | 44 |
| | 1700 | 2.6 | 51 |
| | 2035 | 2.6 | 51 |
| | 2055 | 2.9 | 59 |
| | 2100 | 2.9 | 59 |
| | 2145 | 3.0 | 59 |
| 2400 | 3.4 | 59 | |
| Aug. 9 | 0100 | 3.5 | 51 |
| | 0200 | 3.5 | 44 |
| | 0500 | 3.5 | 37 |
| | 0600 | 3.5 | 30 |
| | 0735 | 3.5 | 30 |
| | 0745 | 3.5 | - |
| | 0800 | 3.5 | - |
| | 0820 | 3.5 | - |
| 2400 | 3.5 | - | |
| Aug. 10 | 0900 | 0 | - |
| | 0910 | 0 | - |
| | 0920 | 0 | - |
| | 0930 | 0 | - |
| | 1000 | 0 | 27 |
| | 1800 | 0 | 34 |
| | 1950 | 0 | 34 |
| | 2015 | 1.0 | 34 |
| | 2045 | 1.0 | 34 |
| | 2115 | 1.5 | 34 |
| | 2200 | 1.5 | 34 |
| | 2300 | 2.4 | 34 |
| 2400 | 2.5 | 40 | |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08454900 East Perdido Creek near Brackettville, Tex.--Continued

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Aug. 11, 1972 | 0100 | 2.7 | 48 |
| | 0200 | 2.8 | 48 |
| | 0230 | 2.9 | 48 |
| | 0300 | 3.3 | 55 |
| | 0400 | 3.3 | 48 |
| | 0600 | 3.4 | 48 |
| | 0840 | 3.4 | 40 |
| | 0845 | 3.4 | 34 |
| | 0855 | 3.4 | - |
| | 0900 | 3.4 | - |
| | 0905 | 3.4 | - |
| | 2400 | 3.4 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08459600 Arroyo San Bartolo at Zapata, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|---------|----------------------------------|-----------------------------------|
| Apr. 27, 1972 | 2110 | 0 | - |
| | 2115 | .7 | - |
| | 2125 | 1.6 | - |
| | 2130 | 1.7 | - |
| | 2150 | 2.0 | - |
| | 2155 | 2.0 | - |
| | 2200 | 2.1 | - |
| | 2215 | 2.1 | - |
| | 2225 | 2.1 | - |
| | 2230 | 2.1 | - |
| | 2245 | 2.1 | - |
| | 2400 | 2.1 | - |
| | Apr. 28 | 0130 | 2.1 |
| 0200 | | 2.1 | - |
| 0230 | | 2.1 | - |

Table 3.--Incremental rainfall and discharge for significant storms--Continued

08466200 Rio Grande tributary at Sullivan City, Tex.

| Date | Time | Accumulated rainfall (inches) | Discharge (ft ³ /s) |
|---------------|------|----------------------------------|-----------------------------------|
| Apr. 27, 1972 | 0000 | 0 | - |
| | 2150 | 0 | - |
| | 2200 | .1 | 26 |
| | 2220 | .4 | 47 |
| | 2230 | .8 | 85 |
| | 2245 | 2.2 | 165 |
| | 2250 | 2.3 | 185 |
| | 2255 | 2.3 | 195 |
| | 2300 | 2.3 | 185 |
| | 2320 | 2.4 | 155 |
| | 2325 | 2.4 | 135 |
| | 2330 | 2.4 | 47 |
| | 2335 | 2.4 | 26 |
| | 2400 | 2.4 | - |
| Sept. 9 | 0000 | 0 | - |
| | 1330 | 0 | - |
| | 1335 | .1 | - |
| | 1340 | .2 | - |
| | 1425 | .2 | 26 |
| | 1430 | .2 | 28 |
| | 1440 | .2 | 32 |
| | 1455 | .2 | 28 |
| | 1505 | .2 | 26 |
| | 2400 | .2 | - |
| Sept. 23 | 1730 | 0 | - |
| | 1745 | .1 | - |
| | 1900 | .1 | 27 |
| | 1910 | .1 | 40 |
| | 1920 | .1 | 52 |
| | 1930 | .1 | 60 |
| | 1945 | .1 | 56 |
| | 2000 | .1 | 60 |
| | 2020 | .1 | 40 |
| | 2030 | .1 | 33 |
| | 2045 | .1 | 30 |
| | 2050 | .1 | 27 |
| | 2400 | .1 | - |

STATION DATA
PEAK DISCHARGES AT GAGING STATIONS
LISTED BY BASIN AND IN DOWNSTREAM ORDER

ARKANSAS RIVER BASIN

07227460 East Fork Cheyenne Creek tributary near
Channing, Tex. (04)

Location.--Lat 35°40'35", long 102°16'55", Hartley County, at culvert
on State Highway 354 and 2.5 miles (4.0 km) east of Channing.

Drainage area.--0.86 mi² (2.23 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.4 miles (3.9 km);
slope index, 96.1 ft/mi (18.2 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | June 25, 1965 | 8.40 | 2,260 |
| 1966 | Aug. 31, 1966 | a4.84 | 520 |
| 1967 | June 29, 1967 | 5.18 | 590 |
| 1968 | July 6, 1968 | 3.00 | 32 |
| 1969 | July 6, 1969 | 3.13 | 36 |
| 1970 | - | <2.73 | <26 |
| 1971 | - | <2.73 | <26 |
| 1972 | July 22, 1972 | 4.65 | 470 |

< Less than amount shown.

a Maximum for period Dec. 30, 1965, to Sept. 30, 1966.

ARKANSAS RIVER BASIN

07227480 Tecovas Creek tributary near Bushland, Tex. (04)

Location.--Lat 35°15'55", long 102°00'20", Potter County, at culvert on Farm Road 1061 and 5.5 miles (8.8 km) northeast of Bushland.

Drainage area.--1.27 mi² (3.29 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.6 miles (2.6 km); slope index, 125 ft/mi (24 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | - | - | - |
| 1967 | Apr. 11, 1967 | 5.07 | 105 |
| 1968 | Aug. 14, 1968 | 2.59 | 11 |
| 1969 | - | <1.89 | <5.5 |
| 1970 | - | <1.89 | <5.5 |
| 1971 | - | <1.89 | <5.5 |
| 1972 | June 29, 1972 | 3.19 | 32 |

< Less than amount shown.

ARKANSAS RIVER BASIN

07234150 White Woman Creek tributary near Darrouzett, Tex. (04)

Location.--Lat 36°24'00", long 100°16'30", Lipscomb County, at culvert on State Highway 305, 4.5 miles (7.2 km) southeast of Darrouzett, and 11.9 miles (19.1 km) north of Lipscomb.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 31, 1966 | 5.20 | 416 |
| 1967 | June 10, 1967 | 2.81 | 35 |
| 1968 | June 16, 1968 | 3.15 | 62 |
| 1969 | Sept. 1, 1969 | 3.21 | 74 |
| 1970 | July 31, 1970 | 2.99 | 46 |
| 1971 | - | <2.36 | <16 |
| 1972 | Aug. 25, 1972 | 4.96 | 384 |

< Less than amount shown.

RED RIVER BASIN

07297920 Middle Tule Draw near Tulia, Tex. (05)

Location.--Lat 34°31'46", long 101°53'30", Swisher County, at culvert on State Highway 86 and 6.5 miles (10.5 km) west of Tulia.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | July 4, 1967 | a5.39 | 230 |
| 1968 | June 16, 1968 | 9.03 | 2,500 |
| 1969 | May 7, 1969 | 8.09 | 1,850 |
| 1970 | - | <5.40 | <230 |
| 1971 | - | <5.40 | <230 |
| 1972 | June 15, 1972 | 8.14 | 1,880 |

< Less than amount shown.

a Maximum for period Jan. 12 to Sept. 30, 1967.

RED RIVER BASIN

07298150 Rock Creek tributary near Silverton, Tex. (25)

Location.--Lat 34°28'40", long 101°25'50", Briscoe County, at culvert on State Highway 86 and 6.7 miles (10.8 km) west of Silverton.

Drainage area.--13.7 mi² (35.5 km²), of which 11.5 mi² (29.8 km²) is probably noncontributing.

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 24, 1966 | 6.70 | 48 |
| 1967 | July 13, 1967 | 5.27 | 5.5 |
| 1968 | May 8, 1968 | 5.53 | 10 |
| 1969 | May 16, 1969 | 6.33 | 35 |
| 1970 | - | <4.99 | <3.0 |
| 1971 | - | <4.99 | <3.0 |
| 1972 | July 18, 1972 | 7.08 | 63 |

< Less than amount shown.

RED RIVER BASIN

07299575 North Groesbeck Creek tributary near
Kirkland, Tex. (25)

Location.--Lat 34°24', long 100°03', Childress County, at culvert on Farm Road 1033, 1.4 miles (2.3 km) north of Kirkland, and 1.5 miles (2.4 km) upstream from North Groesbeck Creek.

Drainage area.--0.16 mi² (0.41 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.3 mile (0.5 km); slope index, 90.9 ft/mi (17.2 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 19, 1965 | a5.32 | 12 |
| 1966 | Aug. 23, 1966 | 8.22 | 74 |
| 1967 | May 28, 1967 | 5.52 | 16 |
| 1968 | May 8, 1968 | 5.59 | 16 |
| 1969 | Aug. 26, 1969 | 5.88 | 22 |
| 1970 | - | <4.37 | <2.5 |
| 1971 | Aug. 16, 1971 | 7.84 | 62 |
| 1972 | July 3, 1972 | 5.47 | 14 |

< Less than amount shown.

a Maximum for period June 4 to Sept. 30, 1965.

RED RIVER BASIN

07299940 Oklahoma Draw tributary near Hedley, Tex. (25)

Location.--Lat 34°53'12", long 100°37'18", Donley County, at culvert on State Highway 203 and 2.7 miles (4.3 km) northeast of Hedley.

Drainage area.--1.15 mi² (2.98 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.0 miles (3.2 km); slope index, 53 ft/mi (10 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 19, 1965 | a5.25 | 87 |
| 1966 | Apr. 25, 1966 | 5.20 | 83 |
| 1967 | - | <5.09 | <73 |
| 1968 | May 8, 1968 | 5.97 | 162 |
| 1969 | May 7, 1969 | 5.25 | 88 |
| 1970 | - | <5.09 | <73 |
| 1971 | - | <5.09 | <73 |
| 1972 | - | <5.09 | <73 |

< Less than amount shown.

a Maximum for period June 5 to Sept. 30, 1965.

RED RIVER BASIN

07301405 Doodlebug Creek near Wheeler, Tex. (25)

Location.--Lat 35°26'40", long 100°13'50", Wheeler County, at culvert on State Highway 152 and 2.5 miles (4.0 km) southeast of Wheeler.

Drainage area.--0.19 mi² (0.49 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.7 mile (1.1 km); slope index, 58 ft/mi (11 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | - | a<6.68 | <120 |
| 1968 | Aug. 29, 1968 | 7.70 | 275 |
| 1969 | Aug. 26, 1969 | 9.92 | 740 |
| 1970 | Apr. 18, 1970 | 8.89 | 505 |
| 1971 | - | <6.68 | <120 |
| 1972 | July 9, 1972 | 9.28 | 600 |

< Less than amount shown.

a Maximum for period Jan. 11 to Sept. 30, 1967.

RED RIVER BASIN

07307720 Cottonwood Creek tributary near Afton, Tex. (25)

Location--Lat 33°44'20", long 100°50'30", Dickens County, at culvert on State Highway 70 and 2 miles (3 km) southwest of Afton.

Drainage area--1.09 mi² (2.82 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 1.9 miles (3.1 km); slope index, 74.8 ft/mi (14.2 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | July 5, 1967 | a2.23 | 245 |
| 1968 | May 9, 1968 | 3.80 | 660 |
| 1969 | June 14, 1969 | 4.50 | 890 |
| 1970 | - | <1.74 | <146 |
| 1971 | Aug. 10, 1971 | 4.42 | 860 |
| 1972 | July 9, 1972 | 3.84 | 670 |

< Less than amount shown.

a Maximum for period Dec. 6, 1966, to Sept. 30, 1967.

RED RIVER BASIN

07308220 Plum Creek near Vernon, Tex. (03)

Location.--Lat 34°06'38", long 99°13'22", Wilbarger County, at culvert on Farm Road 433 and 4 miles (6 km) southeast of Vernon.

Drainage area.--4.99 mi² (12.9 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.55 miles (5.71 km); slope index, 15.0 ft/mi (2.8 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | Apr. 12, 1967 | a6.09 | 265 |
| 1968 | May 16, 1968 | 5.79 | 187 |
| 1969 | Mar. 16, 1969 | 5.21 | 27 |
| 1970 | Oct. 27, 1969 | 6.75 | 445 |
| 1971 | Sept. 18, 1971 | 6.23 | 305 |
| 1972 | Dec. 2, 1971 | 7.24 | 595 |

a Maximum for period Jan. 10 to Sept. 30, 1967.

RED RIVER BASIN

07312140 Beaver Creek tributary near Crowell, Tex. (25)

Location.--Lat 33°58'54", long 99°41'30", Foard County, at culvert on U.S. Highway 70 and 2 miles (3 km) east of Crowell.

Drainage area.--3.43 mi² (8.88 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.6 miles (5.8 km); slope index, 19.3 ft/mi (3.7 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Aug. 31, 1966 | 5.67 | 385 |
| 1967 | June 26, 1967 | 6.37 | 520 |
| 1968 | June 1, 1968 | 4.27 | 114 |
| 1969 | Sept. 22, 1969 | 3.96 | 72 |
| 1970 | Oct. 27, 1969 | 4.50 | 146 |
| 1971 | - | <3.56 | <38 |
| 1972 | May 12, 1972 | 5.74 | 370 |

< Less than amount shown.

RED RIVER BASIN

07312300 Wolf Creek near Iowa Park, Tex. (03)

Location.--Lat 33°54'45", long 98°48'30", Wichita County, at culvert on Farm Road 367 and 8.5 miles (13.7 km) southwest of Iowa Park.

Drainage area.--8.13 mi² (21.1 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 5.9 miles (9.5 km); slope index, 19.7 ft/mi (3.7 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 28, 1966 | a10.06 | (+) |
| 1967 | Apr. 12, 1967 | 10.80 | (+) |
| 1968 | Apr. 18, 1968 | 3.66 | b124 |
| 1969 | July 22, 1969 | 4.95 | b300 |
| 1970 | Apr. 30, 1970 | 3.40 | 210 |
| 1971 | Oct. 17, 1970 | 4.12 | 320 |
| 1972 | Oct. 3, 1971 | 7.46 | (+) |

+ Discharge not determined.

a Maximum for period July 20 to Sept. 30, 1966.

b Estimated.

RED RIVER BASIN

07314200 North Fork Little Wichita River tributary
near Archer City, Tex. (03)

Location.--Lat 33°39'50", long 98°43'30", Archer County, at culvert
on State Highway 25, 1.3 miles (2.1 km) upstream from North Fork Little
Wichita River, and 7.4 miles (11.9 km) northwest of Archer City.

Drainage area.--0.10 mi² (0.26 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.4 mile (0.6 km);
slope index, 234 ft/mi (44 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | - | - | a0 |
| 1966 | Sept. 16, 1966 | 5.67 | 215 |
| 1967 | Apr. 12, 1967 | 2.95 | 52 |
| 1968 | July 7, 1968 | 4.73 | 152 |
| 1969 | June 14, 1969 | 2.95 | 52 |
| 1970 | Sept. 17, 1970 | 2.54 | 35 |
| 1971 | Sept. 5, 1971 | 4.23 | 120 |
| 1972 | May 7, 1972 | 2.86 | 49 |

a No flow for the period May 25 to Sept. 30, 1965.

RED RIVER BASIN

07315550 Farmers Creek near Saint Jo, Tex. (03)

Location.--Lat 33°42'45", long 97°33'05", Montague County, at culvert on U.S. Highway 82 and 2 miles (3 km) northwest of Saint Jo.

Drainage area.--0.82 mi² (2.12 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.85 miles (4.59 km); slope index, 51 ft/mi (10 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 24, 1966 | a3.64 | 31 |
| 1967 | June 26, 1967 | 4.02 | 57 |
| 1968 | July 1, 1968 | 4.70 | 104 |
| 1969 | June 14, 1969 | 5.30 | 145 |
| 1970 | May 30, 1970 | 5.65 | 173 |
| 1971 | - | <3.38 | <18 |
| 1972 | Oct. 20, 1971 | 9.70 | (†) |

† Discharge not determined.

< Less than amount shown.

a Maximum for the period Aug. 4 to Sept. 30, 1966.

RED RIVER BASIN

07332602 Cooper Creek near Bonham, Tex. (01)

Location.--Lat 33°32'24", long 96°12'03", Fannin County, at culvert on Farm Road 1629, 1.7 miles (2.7 km) upstream Bois d'Arc Creek, and 2.9 miles (4.7 km) south of Bonham.

Drainage area.--6.21 mi² (16.08 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 4.8 miles (7.7 km); slope index, 23.3 ft/mi (4.4 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 19, 1966 | 19.11 | 3,100 |
| 1967 | Sept. 6, 1967 | 20.26 | a3,180 |
| 1968 | Apr. 19, 1968 | 17.69 | 2,430 |
| 1969 | May 7, 1969 | 17.84 | a2,100 |
| 1970 | Apr. 25, 1970 | 18.72 | a2,560 |
| 1971 | July 28, 1971 | 12.52 | 450 |
| 1972 | Dec. 9, 1971 | 19.45 | a3,000 |

a Affected by backwater.

RED RIVER BASIN

07336940 McKinney Bayou near Leary, Tex. (19)

Location.--Lat 33°31'33", long 94°11'32", Bowie County, at culvert on Farm Road 2253, 1.1 miles (1.8 km) north of Mount Zion, 3.2 miles (5.1 km) north of Farm Road 2148, and 4.3 miles (6.9 km) north of Leary.

Drainage area.--3.33 mi² (8.62 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 6.45 miles (10.38 km); slope index, 1 ft/mi (0.2 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 25, 1966 | 15.23 | 220 |
| 1967 | May 31, 1967 | 12.67 | 130 |
| 1968 | May 10, 1968 | 13.08 | 90 |
| 1969 | Jan. 31, 1969 | 13.06 | a145 |
| 1970 | May 31, 1970 | 12.69 | a130 |
| 1971 | Mar. 2, 1971 | 12.59 | 65 |
| 1972 | Jan. 2, 1972 | b12.20 | a60 |

a Affected by backwater.

b Occurred on Dec. 21, 1971.

RED RIVER BASIN

07342450 Nelson Branch near Leonard, Tex. (01)

Location.--Lat 33°21'20", long 96°13'25", Fannin County, at culvert on U.S. Highway 69, 0.4 mile (0.6 km) southeast of Hunt-Fannin County line, and 2.2 miles (3.5 km) southeast of Leonard.

Drainage area.--0.22 mi² (0.57 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.78 mile (1.26 km); slope index, 66.6 ft/mi (12.6 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 21, 1965 | a10.93 | 16 |
| 1966 | Apr. 28, 1966 | 16.52 | 300 |
| 1967 | May 30, 1967 | 17.65 | 340 |
| 1968 | Apr. 19, 1968 | 12.38 | 68 |
| 1969 | May 7, 1969 | 15.35 | 230 |
| 1970 | Apr. 25, 1970 | 12.74 | 83 |
| 1971 | July 30, 1971 | 11.33 | 26 |
| 1972 | Oct. 19, 1971 | 14.25 | 157 |

a Maximum for period June 23 to Sept. 30, 1965.

RED RIVER BASIN

07343350 Dial Branch near Bagwell, Tex. (01)

Location.--Lat 33°37'50", long 95°10'15", Red River County, at culvert on U.S. Highway 82, 1.8 miles (2.9 km) upstream from mouth, and 2.3 miles (3.7 km) south of Bagwell.

Drainage area.--1.00 mi² (2.59 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.45 miles (2.33 km); slope index, 45 ft/mi (9 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Feb. 9, 1966 | 16.21 | 660 |
| 1967 | Apr. 26, 1967 | 17.77 | 880 |
| 1968 | June 26, 1968 | 15.92 | 618 |
| 1969 | May 8, 1969 | 15.53 | 552 |
| 1970 | Apr. 25, 1970 | 14.55 | 420 |
| 1971 | May 10, 1971 | 11.97 | 124 |
| 1972 | Dec. 9, 1971 | 16.30 | 672 |

RED RIVER BASIN

07343900 Buck Creek near Cookville, Tex. (19)

Location.--Lat 33°11'10", long 94°52'20", Titus County, at culvert on U.S. Highway 67, 1.0 mile (1.6 km) west of Cookville, and 5.5 miles (8.8 km) east of Mount Pleasant.

Drainage area.--0.78 mi² (2.02 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.03 miles (1.66 km); slope index, 87.2 ft/mi (16.5 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 24, 1966 | 17.08 | 590 |
| 1967 | May 1, 1967 | 13.30 | 190 |
| 1968 | Sept. 18, 1968 | 14.95 | 350 |
| 1969 | May 8, 1969 | 15.77 | 440 |
| 1970 | Apr. 27, 1970 | 15.48 | 405 |
| 1971 | July 26, 1971 | 13.14 | 176 |
| 1972 | Mar. 2, 1972 | 14.20 | 274 |

RED RIVER BASIN

07344490 Dragoo Creek near Mount Pleasant, Tex. (19)

Location.--Lat 33°09'40", long 95°01'55", Titus County, at culvert on Interstate Highway 30, 1.8 miles (2.9 km) upstream from mouth, and 3.8 miles (6.1 km) west of Mount Pleasant.

Drainage area.--4.27 mi² (11.06 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.6 miles (5.8 km); slope index, 26.9 ft/mi (5.1 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | Apr. 13, 1967 | a15.03 | b1,150 |
| 1968 | Apr. 1, 1968 | 15.09 | 1,170 |
| 1969 | May 8, 1969 | 15.70 | b1,480 |
| 1970 | Apr. 26, 1970 | 15.24 | b1,230 |
| 1971 | Feb. 13, 1971 | 13.09 | 585 |
| 1972 | Dec. 9, 1971 | 13.67 | b650 |

- a Maximum for period Jan. 1 to Sept. 30, 1967.
 b Affected by backwater.

RED RIVER BASIN

07344600 Williamson Creek near Pittsburg, Tex. (19)

Location.--Lat 33°02'55", long 94°52'35", Titus County, at culvert on Farm Road 2348 and 1.3 miles (2.1 km) northeast of Pittsburg.

Drainage area.--7.11 mi² (18.41 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 6.8 miles (10.9 km); slope index, 20.3 ft/mi (3.8 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | May 31, 1967 | a12.94 | b310 |
| 1968 | May 10, 1968 | 12.96 | 320 |
| 1969 | May 8, 1969 | 13.09 | b340 |
| 1970 | Apr. 27, 1970 | 15.12 | 1,010 |
| 1971 | - | <11.39 | <135 |
| 1972 | Dec. 3, 1971 | 13.37 | b420 |

< Less than amount shown.

a Maximum for period Jan. 1 to Sept. 30, 1967.

b Affected by backwater.

RED RIVER BASIN

07346010 Cypress Creek tributary near Jefferson, Tex. (19)

Location.--Lat 32°42'50", long 94°25'52", Marion County, at culvert on Farm Road 2208, 4.3 miles (6.9 km) upstream from Cypress Creek, and 5.5 miles (8.8 km) southwest of Jefferson.

Drainage area.--0.21 mi² (0.54 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.75 mile (1.21 km); slope index, 75 ft/mi (14 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 24, 1966 | 13.78 | 129 |
| 1967 | - | <10.74 | <7 |
| 1968 | Sept. 4, 1968 | 11.07 | 13 |
| 1969 | Mar. 23, 1969 | 10.74 | 6.4 |
| 1970 | Aug. 23, 1970 | 11.37 | 22 |
| 1971 | Mar. 10, 1971 | 11.01 | 12 |
| 1972 | - | <10.56 | <5.6 |

< Less than amount shown.

RED RIVER BASIN

07346072 Taylor Branch near Smithland, Tex. (19)

Location.--Lat 32°47'20", long 94°15'02", Marion County, at culvert on State Highway 49 and 6.4 miles (10.3 km) northeast of Jefferson.

Drainage area.--0.73 mi² (1.89 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.40 miles (2.25 km); slope index, 61 ft/mi (12 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 24, 1966 | 13.33 | 430 |
| 1967 | Nov. 10, 1966 | 10.73 | 38 |
| 1968 | May 9, 1968 | 11.30 | 100 |
| 1969 | Mar. 23, 1969 | 11.79 | 169 |
| 1970 | Apr. 26, 1970 | 11.32 | 102 |
| 1971 | July 24, 1971 | 10.80 | 44 |
| 1972 | Jan. 3, 1972 | 11.20 | 92 |

SABINE RIVER BASIN

08017700 Burnett Branch near Canton, Tex. (10)

Location.--Lat 32°32'17", long 95°51'44", Van Zandt County, at culvert on State Highway 19 and 1.3 miles (2.1 km) south of Canton.

Drainage area.--0.33 mi² (0.85 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.80 mile (1.29 km); slope index, 22 ft/mi (4 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 24, 1966 | 14.49 | 330 |
| 1967 | May 31, 1967 | 11.14 | 39 |
| 1968 | Oct. 16, 1967 | 13.05 | 184 |
| 1969 | May 8, 1969 | 14.60 | 345 |
| 1970 | May 26, 1970 | 11.57 | 66 |
| 1971 | Oct. 26, 1970 | 12.54 | 135 |
| 1972 | Dec. 11, 1971 | 13.61 | 235 |

SABINE RIVER BASIN

08020800 Grace Creek tributary at Longview, Tex. (10)

Location.--Lat 32°31'02", long 94°44'23", Gregg County, at culvert on U.S. Highway 259, 1.2 miles (1.9 km) north of Longview, and 1.7 miles (2.7 km) upstream from mouth.

Drainage area.--5.05 mi² (13.08 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 4.15 miles (6.68 km); slope index, 28 ft/mi (5 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | July 4, 1967 | a13.02 | 620 |
| 1968 | May 9, 1968 | 13.15 | 670 |
| 1969 | Apr. 17, 1969 | 13.73 | 870 |
| 1970 | July 20, 1970 | 13.41 | 760 |
| 1971 | Oct. 27, 1970 | 13.03 | 610 |
| 1972 | June 21, 1972 | 13.61 | 814 |

a Maximum for period Jan. 1 to Sept. 30, 1967.

SABINE RIVER BASIN

08022010 Redmon Branch near Hallsville, Tex. (19)

Location.--Lat 32°29'41", long 94°28'47", Harrison County, at culvert on Farm Road 968, 2.6 miles (4.2 km) upstream from Potters Creek, and 5.6 miles (9.0 km) east of Hallsville.

Drainage area.--0.46 mi² (1.19 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.15 miles (1.85 km); slope index, 108 ft/mi (20 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 24, 1966 | 15.70 | 725 |
| 1967 | July 4, 1967 | 14.81 | 150 |
| 1968 | Apr. 1, 1968 | 12.90 | 76 |
| 1969 | Mar. 23, 1969 | 13.03 | 80 |
| 1970 | Nov. 17, 1969 | 12.54 | 61 |
| 1971 | Oct. 27, 1970 | 12.90 | 76 |
| 1972 | Jan. 3, 1972 | 14.40 | 136 |

SABINE RIVER BASIN

08024290 Dorsey Branch near Milam, Tex. (11)

Location.--Lat 31°30'44", long 93°50'45", Sabine County, at culvert on State Highway 87 and 5.5 miles (8.8 km) north of Milam.

Drainage area.--0.70 mi² (1.81 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.3 miles (2.1 km); slope index, 2.06 ft/mi (0.39 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | - | <1.83 | <122 |
| 1968 | July 24, 1968 | 5.72 | 382 |
| 1969 | May 7, 1969 | 3.0 | 136 |
| 1970 | - | <1.83 | <85 |
| 1971 | - | <1.83 | <85 |
| 1972 | Mar. 20, 1972 | 3.98 | 218 |

< Less than amount shown.

SABINE RIVER BASIN

08028505 Moore Branch near Newton, Tex. (20)

Location.--Lat 30°53'00", long 93°40'59", Newton County, at culvert on Farm Road 1414 and 5.2 miles (8.4 km) northeast of Newton.

Drainage area.--3.77 mi² (9.76 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 4.2 miles (6.8 km); slope index, 31.1 ft/mi (5.9 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | - | a<0.88 | <18 |
| 1967 | Apr. 13, 1967 | 3.13 | 140 |
| 1968 | Apr. 9, 1968 | 2.83 | 118 |
| 1969 | Feb. 21, 1969 | 2.82 | 117 |
| 1970 | Dec. 6, 1969 | 2.63 | 104 |
| 1971 | - | <.88 | <18 |
| 1972 | Dec. 2, 1971 | 2.70 | 110 |

< Less than amount shown.

a Maximum for period July 29 to Sept. 30, 1966.

SABINE RIVER BASIN

08030700 Adams Bayou tributary near Deweyville, Tex. (20)

Location.--Lat 30°14'53", long 93°48'56", Newton County, at culvert on State Highway 12 and 5.5 miles (8.8 km) southwest of Deweyville.

Drainage area.--12.39 mi² (32.09 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 6.6 miles (10.6 km); slope index, 0.28 ft/mi (0.05 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | - | a<0.63 | (+) |
| 1967 | Apr. 14, 1967 | 1.74 | 90 |
| 1968 | June 22, 1968 | 2.94 | 195 |
| 1969 | Feb. 21, 1969 | b1.90 | c95 |
| 1970 | - | <.63 | <44 |
| 1971 | Oct. 28, 1970 | 4.15 | c2,000 |
| 1972 | Dec. 6, 1971 | 1.76 | 94 |

+ Discharge not determined.

< Less than amount shown.

a Maximum for period Aug. 2 to Sept. 30, 1966.

b Occurred different time than peak discharge.

c Estimated.

NECHES RIVER BASIN

08031100 Bethlehem Branch near Van, Tex. (10)

Location.--Lat 32°29'04", long 95°38'35", Van Zandt County, at culvert on Farm Road 314, 0.7 mile (1.1 km) upstream from mouth, and 3.1 miles (5.0 km) south of Van.

Drainage area.--1.09 mi² (2.82 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.9 miles (3.1 km); slope index, 37.8 ft/mi (7.2 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 23, 1966 | 15.83 | 660 |
| 1967 | May 31, 1967 | 14.25 | 280 |
| 1968 | May 10, 1968 | 14.22 | 270 |
| 1969 | May 8, 1969 | 13.15 | a188 |
| 1970 | Dec. 28, 1969 | 11.59 | 90 |
| | Apr. 25, 1970 | 11.59 | 90 |
| 1971 | Oct. 26, 1970 | 12.00 | 132 |
| 1972 | Dec. 9, 1971 | 11.33 | 69 |

a Affected by backwater.

NECHES RIVER BASIN

08032100 Hurricane Creek tributary near Palestine, Tex. (10)

Location.--Lat 31°52'10", long 95°34'20", Anderson County, at culvert on State Highway 155 and 8.5 miles (13.7 km) northeast of Palestine.

Drainage area.--0.39 mi² (1.01 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.3 miles (2.1 km); slope index, 124 ft/mi (23 m/km). (Map scale, 1:62,500).

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | - | a<0.92 | <6 |
| 1967 | Apr. 13, 1967 | 1.75 | 29 |
| 1968 | May 11, 1968 | 1.86 | 32 |
| 1969 | Mar. 22, 1969 | 1.92 | 34 |
| 1970 | Nov. 7, 1969 | 2.16 | b43 |
| 1971 | Oct. 23, 1970 | 2.0 | 37 |
| 1972 | Oct. 20, 1971 | 2.36 | 50 |

< Less than amount shown.

a Maximum for period July 22 to Sept. 30, 1966.

b Revised.

NECHES RIVER BASIN

08032250 One Arm Creek near Maydelle, Tex. (10)

Location.--Lat 31°48'29", long 95°17'19", Cherokee County, at culvert on U.S. Highway 84 and 1.0 mile (1.6 km) east of Maydelle.

Drainage area.--6.01 mi² (15.57 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.45 miles (5.55 km); slope index, 51 ft/mi (10 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | July 2, 1967 | a2.90 | 158 |
| 1968 | June 24, 1968 | 5.9 | 670 |
| 1969 | May 6, 1969 | 12.64 | 2,750 |
| 1970 | Apr. 19, 1970 | 4.04 | 300 |
| 1971 | - | <1.92 | <23 |
| 1972 | - | <1.92 | <23 |

< Less than amount shown.

a Maximum for period Mar. 9 to Sept. 30, 1967.

NECHES RIVER BASIN

08032300 Squirrel Creek near Elkhart, Tex. (10)

Location.--Lat 31°37'09", long 95°30'15", Anderson County, at culvert on State Highway 294 and 4.5 miles (7.2 km) east of Elkhart.

Drainage area.--1.57 mi² (4.07 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.84 miles (2.96 km); slope index, 59.4 ft/mi (11.3 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | - | a<1.35 | <48 |
| 1968 | Apr. 8, 1968 | 2.26 | 136 |
| 1969 | May 6, 1969 | 3.33 | 260 |
| 1970 | Apr. 19, 1970 | 3.28 | 256 |
| 1971 | Aug. 3, 1971 | 2.55 | 170 |
| 1972 | Dec. 5, 1971 | 2.30 | 140 |

< Less than amount shown.

a Maximum for period Mar. 8 to Sept. 30, 1967.

NECHES RIVER BASIN

08033250 Piney Creek tributary near Pennington, Tex. (11)

Location.--Lat 31°12'12", long 95°06'58", Trinity County, at culvert on Farm Road 358 and 7.5 miles (12.1 km) east of Pennington.

Drainage area.--1.17 mi² (3.03 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.30 miles (3.70 km); slope index, 27 ft/mi (5 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | June 1, 1967 | a2.80 | 134 |
| 1968 | Apr. 8, 1968 | 4.35 | 265 |
| 1969 | May 6, 1969 | 6.01 | 430 |
| 1970 | - | <.94 | <25 |
| 1971 | Oct. 23, 1970 | 1.84 | 71 |
| 1972 | Jan. 29, 1972 | 1.46 | 49 |

< Less than amount shown.

a Maximum for period Mar. 13 to Sept. 30, 1967.

NECHES RIVER BASIN

08033450 Shawnee Creek tributary near Huntington, Tex. (11)

Location.--Lat 31°13'17", long 94°30'51", Angelina County, at culvert on U.S. Highway 69 and 5.3 miles (8.5 km) southeast of Huntington.

Drainage area.--0.52 mi² (1.35 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.30 miles (2.09 km); slope index, 64 ft/mi (12 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | - | a<1.86 | <35 |
| 1967 | Oct. 4, 1966 | 2.31 | 28 |
| 1968 | Apr. 8, 1968 | 8.63 | 310 |
| 1969 | Mar. 15, 1969 | 5.56 | 126 |
| 1970 | Mar. 4, 1970 | 2.40 | 58 |
| 1971 | - | <1.86 | <35 |
| 1972 | Jan. 29, 1972 | 3.48 | 64 |

< Less than amount shown.

a Maximum for period Aug. 3 to Sept. 30, 1966.

NECHES RIVER BASIN

08033480 Greenwood Creek tributary near Colmesneil, Tex. (20)

Location.--Lat 30°58'48", long 94°24'22", Tyler County, at culvert on U.S. Highway 69 and 5.2 miles (8.4 km) north of Colmesneil.

Drainage area.--0.15 mi² (0.39 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.8 mile (1.3 km); slope index, 200 ft/mi (38 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | - | a<2.70 | <26 |
| 1967 | Apr. 10, 1967 | 3.37 | 50 |
| 1968 | - | <2.70 | <26 |
| 1969 | May 6, 1969 | 3.47 | 55 |
| 1970 | May 1, 1970 | 2.87 | 32 |
| 1971 | - | <2.70 | <26 |
| 1972 | Mar. 20, 1972 | 4.50 | 100 |

< Less than amount shown.

a Maximum for period July 28 to Sept. 30, 1966.

NECHES RIVER BASIN

08037300 Gingham Branch near Mount Enterprise, Tex. (10)

Location.--Lat 31°55'14", long 94°33'33"; Rusk County, at culvert on U.S. Highway 84 and 7.5 miles (12.1 km) east of Mount Enterprise.

Drainage area.--0.90 mi² (2.33 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.45 miles (2.33 km); slope index, 122 ft/mi (23 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | June 1, 1967 | a6.92 | 20 |
| 1968 | Apr. 8, 1968 | 10.31 | 132 |
| 1969 | Mar. 15, 1969 | 8.44 | 64 |
| 1970 | Mar. 4, 1970 | 7.01 | 25 |
| 1971 | - | <6.92 | <20 |
| 1972 | Jan. 4, 1972 | 8.60 | 70 |

< Less than amount shown.

a Maximum for period Mar. 10 to Sept. 30, 1967.

NECHES RIVER BASIN

08039900 Little Sandy Creek tributary near Jasper, Tex. (20)

Location.--Lat 30°56'39", long 93°56'16", Jasper County, at culvert on State Highway 63 and 4 miles (6 km) east of Jasper.

Drainage area.--0.46 mi² (1.19 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.0 mile (1.6 km); slope index, 84 ft/mi (16 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|--------------|-------------------------|-------------------------------------|
| 1967 | - | a<2.35 | <20 |
| 1968 | - | 2.5 | 20 |
| 1969 | May 6, 1969 | 2.60 | 39 |
| 1970 | - | <2.35 | <20 |
| 1971 | - | <2.35 | <20 |
| 1972 | Dec. 5, 1971 | 2.35 | 22 |

< Less than amount shown.

a Maximum for period Mar. 11 to Sept. 30, 1967.

NECHES RIVER BASIN

08041400 Drakes Branch near Spurger, Tex. (20)

Location.--Lat 30°41'02", long 94°15'32"; Tyler County, at culvert on Farm Road 1013 and 5.2 miles (8.4 km) west of Spurger.

Drainage area.--5.03 mi² (13.03 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 4.4 miles (7.1 km); slope index, 23.9 ft/mi (4.5 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | Apr. 13, 1967 | 21.87 | 118 |
| 1968 | June 21, 1968 | 2.61 | 220 |
| 1969 | May 6, 1969 | 5.85 | 1,050 |
| 1970 | May 1, 1970 | 2.20 | 162 |
| 1971 | Oct. 23, 1970 | 1.81 | 111 |
| 1972 | Apr. 27, 1972 | 2.29 | 175 |

a Maximum for period Mar. 12 to Sept. 30, 1967.

DOUBLE BAYOU BASIN

08042550 West Fork Double Bayou near Anahuac, Tex. (20)

Location.--Lat 29°45'39", long 94°38'00", Chambers County, at bridge on Farm Road 562 and 3 miles (5 km) southeast of Anahuac.

Drainage area.--4.43 mi² (11.47 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.15 miles (5.07 km); slope index, 0.5 ft/mi (0.1 m/km). (Map scale, 1:24,000)

Remarks.--This site was instrumented with a water-stage recorder during the periods March to July 1963 and November 1963 to February 1965 as part of the Houston Ship Channel Model Study.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 5, 1966 | a12.22 | (†) |
| 1967 | May 21, 1967 | 13.60 | 250 |
| 1968 | Apr. 9, 1968 | 15.80 | 300 |
| 1969 | Apr. 12, 1969 | 14.30 | 205 |
| 1970 | May 15, 1970 | 13.73 | 177 |
| 1971 | Oct. 11, 1970 | 14.75 | 230 |
| 1972 | Dec. 6, 1971 | 13.52 | 280 |

† Discharge not determined.

a Maximum for period Aug. 5 to Sept. 30, 1966.

TRINITY RIVER BASIN

08042700 North Creek near Jacksboro, Tex. (02)

Location.--Lat 33°16'55", long 98°17'55", Jack County, on left bank at downstream side of bridge on U.S. Highway 281, 1.5 miles (2.4 km) upstream from Henderson Creek, 9.3 miles (15.0 km) northwest of Jacksboro, and 14 miles (23 km) upstream from mouth.

Drainage area.--21.6 mi² (55.9 km²).

Gage.--Recording. Datum of gage is 1,016.33 ft (309.78 m) above mean sea level (State Highway Department bench mark).

Historical data.--Flood of Apr. 28, 1957, was the highest since at least 1915, from information by local resident.

Remarks.--Three recording and two nonrecording rain gages located in the watershed. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1956 | May 3, 1956 | 21.58 | 5,700 |
| 1957 | Apr. 28, 1957 | 24.45 | 6,990 |
| 1958 | Nov. 4, 1957 | 12.56 | 1,760 |
| 1959 | June 26, 1959 | 14.45 | 2,500 |
| 1960 | Oct. 3, 1959 | 19.65 | 4,830 |
| 1961 | July 16, 1961 | 15.23 | 2,840 |
| 1962 | June 10, 1962 | 18.10 | 4,130 |
| 1963 | Apr. 28, 1963 | 11.55 | 1,370 |
| 1964 | May 29, 1964 | 13.60 | 1,360 |
| 1965 | Sept. 18, 1965 | 16.82 | 2,250 |
| 1966 | Apr. 23, 1966 | 17.38 | 2,790 |
| 1967 | May 31, 1967 | 12.25 | 1,150 |
| 1968 | Mar. 20, 1968 | 10.49 | 621 |
| 1969 | May 5, 1969 | 16.23 | 2,050 |
| 1970 | Apr. 30, 1970 | 13.84 | 1,670 |
| 1971 | July 26, 1971 | 9.25 | 450 |
| 1972 | May 12, 1972 | 16.29 | 2,640 |

TRINITY RIVER BASIN

08044200 Walker Creek near Boyd, Tex. (02)

Location.--Lat 33°04'32", long 97°34'58", Wise County, at culvert on State Highway 114, 1.1 miles (1.8 km) upstream from Salt Creek, and 1.1 miles (1.8 km) west of Boyd.

Drainage area.--2.95 mi² (7.64 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.35 miles (5.39 km); slope index, 44 ft/mi (8 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 22, 1965 | a12.75 | 270 |
| 1966 | Feb. 8, 1966 | 13.83 | 450 |
| 1967 | May 30, 1967 | 13.23 | 350 |
| 1968 | Mar. 19, 1968 | 14.50 | 580 |
| 1969 | May 7, 1969 | 13.48 | 390 |
| 1970 | Mar. 2, 1970 | 20.11 | 2,990 |
| 1971 | - | <11.38 | <15 |
| 1972 | Dec. 8, 1971 | 13.30 | 355 |

< Less than amount shown.

a Maximum for period June 16 to Sept. 30, 1965.

TRINITY RIVER BASIN

08047200 West Creek at Fort Worth, Tex. (02)

Location.--Lat 32°40'25", long 97°22'06", Tarrant County, at culvert on Bilglade Road at intersection of West Creek Drive in Fort Worth.

Drainage area.--0.31 mi² (0.80 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.85 mile (1.37 km); slope index, 119 ft/mi (23 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | July 14, 1965 | a14.18 | 275 |
| 1966 | Aug. 29, 1966 | 16.30 | 495 |
| 1967 | May 30, 1967 | 13.86 | 250 |
| 1968 | June 15, 1968 | 12.64 | 127 |
| 1969 | Feb. 20, 1969 | 13.65 | 218 |
| 1970 | Apr. 25, 1970 | 12.14 | 88 |
| 1971 | July 29, 1971 | 17.04 | 857 |
| 1972 | Oct. 19, 1971 | 14.37 | 295 |

a Maximum for period July 2 to Sept. 30, 1965.

TRINITY RIVER BASIN

08048550 Dry Branch at Blandin Street, Fort Worth, Tex. (02)

Location.--Lat 32°47'19", long 97°18'22", Tarrant County, at culvert on Blandin Street in north Fort Worth and 2.8 miles (4.5 km) upstream from mouth.

Drainage area.--1.08 mi² (2.80 km²).

Gage.--Stage recorder.

Remarks.--This station operated as research project for runoff from urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1969 | Apr. 16, 1969 | a587.15 | 217 |
| 1970 | May 30, 1970 | 587.75 | 298 |
| 1971 | Aug. 15, 1971 | 587.16 | 218 |
| 1972 | Oct. 19, 1971 | 588.48 | 422 |

a Maximum for period February to September 1969.

TRINITY RIVER BASIN

08048600 Dry Branch at Fain Street at Fort Worth, Tex. (02)

Location.--Lat 32°46'34", long 97°17'18", Tarrant County, on right bank 30 ft (9 m) upstream from culverts on Fain Street at intersection of Fain and Beach Streets in Fort Worth and 1.1 miles (1.8 km) upstream from the mouth.

Drainage area.--2.15 mi² (5.57 km²).

Gage.--Recording. Datum of gage is 537.51 ft (163.83 m) above mean sea level.

Remarks.--This station operated as research project for runoff from urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1969 | May 6, 1969 | 4.58 | 292 |
| 1970 | May 30, 1970 | 4.98 | 338 |
| 1971 | Aug. 15, 1971 | 4.37 | 264 |
| 1972 | Oct. 19, 1971 | 5.10 | 352 |

TRINITY RIVER BASIN

08048820 Little Fossil Creek at Interstate Highway 820,
Fort Worth, Tex. (02)

Location.--Lat 32°50'22", long 97°19'20", Tarrant County, at culvert
on south access road to Interstate Highway 820 and 5.7 miles (9.2
km) north of courthouse, Fort Worth.

Drainage area.--5.64 mi² (14.61 km²).

Gage.--Stage recorder.

Remarks.--This station operated as research project for runoff from
urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1969 | May 6, 1969 | a612.55 | 715 |
| 1970 | Apr. 25, 1970 | 613.00 | 650 |
| 1971 | May 29, 1971 | 612.71 | b258 |
| 1972 | Dec. 9, 1971 | 613.89 | 632 |

- a Maximum for period April to September 1969.
b Revised.

TRINITY RIVER BASIN

08048850 Little Fossil Creek at Mesquite Street at
Fort Worth, Tex. (02)

Location.--Lat 32°48'33", long 97°17'28", Tarrant County, on right bank at intersection of Mesquite Street and Broadway Avenue in Fort Worth, 150 ft (46 m) upstream from bridge on Alta Vista Road (Beach Street), 4.3 miles (6.9 km) northeast of County Courthouse, and approximately 4.3 miles (6.9 km) upstream from Big Fossil Creek.

Drainage area.--12.3 mi² (31.86 km²).

Gage.--Recording. Datum of gage is 548.62 ft (167.22 m) above mean sea level.

Remarks.--This station operated as research project for runoff from urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1969 | May 6, 1969 | 8.30 | 1,530 |
| 1970 | Apr. 30, 1970 | 7.68 | 1,370 |
| 1971 | Aug. 15, 1971 | 5.61 | 603 |
| 1972 | Dec. 9, 1971 | 8.90 | 1,580 |

TRINITY RIVER BASIN

08048900 Deer Creek tributary near Crowley, Tex. (02)

Location.--Lat 32°35'06", long 97°21'04", Tarrant County, at culvert on Farm Road 731, 0.7 mile (1.1 km) upstream from mouth, and 0.7 mile (1.1 km) northeast of Crowley.

Drainage area.--5.86 mi² (15.18 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 5.4 miles (8.7 km); slope index, 23 ft/mi (4 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | - | a<11.51 | <170 |
| 1968 | Apr. 19, 1968 | 14.98 | 1,060 |
| 1969 | May 7, 1969 | 14.53 | 910 |
| 1970 | Mar. 2, 1970 | 13.64 | 670 |
| 1971 | - | <11.51 | <170 |
| 1972 | Oct. 19, 1971 | 15.66 | 1,280 |

< Less than amount shown.

a Maximum for period Jan. 12 to Sept. 30, 1967.

TRINITY RIVER BASIN

08050200 Elm Fork Trinity River subwatershed No. 6-0
near Muenster, Tex. (03)

Location.--Lat 33°37'13", long 97°24'15", Cooke County, near center of earthfill dam on unnamed tributary of Elm Fork Trinity River, 1.0 mile (1.6 km) west of Farm Road 373, and 2.6 miles (4.2 km) southwest of Muenster.

Drainage area.--0.77 mi² (1.99 km²).

Gage.--Recording. Datum of gage is 941.75 ft (287.05 m) above mean sea level, datum of 1929 (U.S. Soil Conservation Service bench mark).

Remarks.--Peak discharge based on maximum inflow (average for 5- or 15-minute intervals), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. Recording rain gage located at station. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1957 | June 1, 1957 | 449 |
| 1958 | May 1, 1958 | 688 |
| 1959 | Nov. 16, 1958 | 34 |
| 1960 | Oct. 3, 1959 | 842 |
| 1961 | Mar. 25, 1961 | 51 |
| 1962 | June 18, 1962 | 287 |
| 1963 | Nov. 26, 1962 | 221 |
| 1964 | Sept. 21, 1964 | 261 |
| 1965 | Nov. 18, 1964 | 367 |
| 1966 | Feb. 9, 1966 | 476 |
| 1967 | May 30, 1967 | 316 |
| 1968 | Mar. 20, 1968 | 188 |
| 1969 | May 6, 1969 | 477 |
| 1970 | Sept. 25, 1970 | 423 |
| 1971 | Aug. 14, 1971 | 178 |
| 1972 | Oct. 19, 1971 | 220 |

TRINITY RIVER BASIN

08052630 Little Elm Creek subwatershed No. 10
near Gunter, Tex. (18)

Location--Lat 33°24'33"; long 96°48'41", Grayson County, near center of dam on Walnut Fork, 1.6 miles (2.6 km) upstream from mouth, and 4.7 miles (7.6 km) southwest of Gunter.

Drainage area--2.10 mi² (5.44 km²).

Gage--Water-stage recorder. Datum of gage is 615.51 ft (187.61 m) above mean sea level, datum of 1929 (U.S. Soil Conservation Service bench mark).

Topographic characteristics--Length of main stream, 2.52 miles (4.05 km); slope index, 37.3 ft/mi (7.1 m/km). (Map scale, 1:24,000)

Remarks--Peak discharge based on maximum inflow (average for 5- or 15-minute intervals), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. Rain gage 3S located 0.25 mile (0.40 km) southeast of dam. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------------------|
| 1966 | Apr. 28, 1966 | 823 |
| 1967 | May 30, 1967 | 3,240 |
| 1968 | Mar. 20, 1968 | 635 |
| 1969 | May 14, 1969 | 1,370 |
| 1970 | Apr. 25, 1970 | 1,570 |
| 1971 | Aug. 24, 1971 | 80 |
| 1972 | Nov. 17, 1971 | 1,450 |

TRINITY RIVER BASIN

08053100 Jones Valley Creek tributary
near Forestburg, Tex. (03)

Location.--Lat 33°33'15", long 97°37'05", Montague County, at culvert on Farm Road 455, 0.7 mile (1.1 km) upstream from Jones Valley Creek, and 3.8 miles (6.1 km) northwest of Forestburg.

Drainage area.--1.70 mi² (14.40 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.35 miles (3.78 km); slope index, 78.5 ft/mi (14.9 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 19, 1965 | a17.80 | 605 |
| 1966 | Feb. 9, 1966 | 20.15 | 860 |
| 1967 | Sept. 7, 1967 | 14.66 | 305 |
| 1968 | Mar. 19, 1968 | 12.23 | 122 |
| 1969 | May 6, 1969 | 16.08 | 440 |
| 1970 | Sept. 17, 1970 | 13.17 | 190 |
| 1971 | Oct. 23, 1970 | 11.56 | 81 |
| 1972 | May 12, 1972 | 18.51 | 680 |

a Maximum for period June 22 to Sept. 30, 1965.

TRINITY RIVER BASIN

08054200 Gamble Branch near Argyle, Tex. (18)

Location,--Lat 33°04'53", long 97°11'48", Denton County, at culvert on U.S. Highway 377 and 2.8 miles (4.5 km) south of Argyle.

Drainage area,--0.50 mi² (1.30 km²).

Gage,--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics,--Length of main stream, 0.88 mile (1.42 km); slope index, 89 ft/mi (17 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 22, 1965 | all.56 | 68 |
| 1966 | Apr. 29, 1966 | 14.17 | 306 |
| 1967 | May 21, 1967 | 11.38 | 57 |
| 1968 | May 13, 1968 | 14.18 | 310 |
| 1969 | May 16, 1969 | 12.50 | 142 |
| 1970 | Mar. 2, 1970 | 13.18 | 204 |
| 1971 | Oct. 24, 1970 | 12.11 | 108 |
| 1972 | Oct. 3, 1971 | 12.79 | 168 |

a Maximum for period June 18 to Sept. 30, 1965.

TRINITY RIVER BASIN

08055600 Joes Creek at Dallas, Tex. (18)

Location.--Lat 32°51'33", long 96°53'00", Dallas County, at bridge on State Highway 114, Dallas, and 0.9 mile (1.4 km) upstream from mouth.

Drainage area.--7.51 mi² (19.45 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1953.

Historical data.--Since at least 1904, maximum discharge that of Oct. 8, 1962; maximum elevation, 431 ft (131 m) in 1908, backwater from Trinity River.

Remarks.--Urbanizing.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1962 | July 27, 1962 | 423.6 | 3,100 |
| 1963 | Oct. 8, 1962 | 425.3 | 7,430 |
| 1964 | Sept. 21, 1964 | 420.95 | 1,440 |
| 1965 | May 10, 1965 | 421.30 | 1,520 |
| 1966 | Apr. 28, 1966 | 426.4 | 6,350 |
| 1967 | Apr. 21, 1967 | 418.50 | 930 |
| 1968 | Aug. 13, 1968 | 421.18 | 1,500 |
| 1969 | May 7, 1969 | 423.70 | 2,350 |
| 1970 | May 30, 1970 | 422.51 | 1,780 |
| 1971 | Aug. 14, 1971 | 422.87 | 1,940 |
| 1972 | July 12, 1972 | 422.46 | 1,850 |

TRINITY RIVER BASIN

08055700 Bachman Branch at Dallas, Tex. (18)

Location.--Lat 32°51'36", long 96°50'12", Dallas County, on left bank on downstream side of bridge on Midway Road in Dallas, 1,400 ft (427 m) south of Northwest Highway, 1.5 miles (2.4 km) upstream from Bachman Lake Dam, and 6 miles (10 km) northwest of Dallas City Hall.

Drainage area.--9.58 mi² (24.81 km²). Area at site used prior to May 1, 1970, 10.0 mi² (25.9 km²).

Gage.--Water-stage recorder. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1953.

Topographic characteristics.--Length of main stream, 6.0 miles (9.7 km); slope index, 31.8 ft/mi (6.0 m/km). (Map scale, 1:24,000)

Historical data.--Maximum stage known since at least 1900, that of Apr. 28, 1966, from information by local residents. The second greatest flood since 1900 occurred Oct. 8, 1962.

Remarks.--This watershed is about 75 percent urbanized (1966). Six recording rain gages are located in the watershed above the station. Tabulations of significant rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1963 | Oct. 8, 1962 | 465.6 | 9,200 |
| 1964 | Sept. 21, 1964 | 459.30 | 3,620 |
| 1965 | May 10, 1965 | 461.43 | 5,170 |
| 1966 | Apr. 28, 1966 | 467.97 | 16,000 |
| 1967 | Apr. 21, 1967 | 455.21 | 1,450 |
| 1968 | Aug. 13, 1968 | 455.68 | 1,760 |
| 1969 | May 6, 1969 | 464.84 | 8,360 |
| 1970 | Sept. 2, 1970 | 466.24 | 3,130 |
| 1971 | Aug. 14, 1971 | 467.97 | 3,480 |
| 1972 | Oct. 19, 1971 | 469.00 | 5,650 |

TRINITY RIVER BASIN

08056500 Turtle Creek at Dallas, Tex. (18)

Location.--Lat 32°48'26", long 96°48'08", Dallas County, on left bank 68 ft (21 m) upstream from Hall Street Dam, 210 ft (64 m) upstream from Hall Street in Dallas, and 2 miles (3 km) north of Dallas County Courthouse.

Drainage area.--7.98 mi² (20.67 km²).

Gage.--Recording. Datum of gage is 428.13 ft (130.49 m) above mean sea level, datum of 1929.

Topographic characteristics.--Length of main stream, 5.3 miles (8.5 km); slope index, 37 ft/mi (7 m/km). (Map scale, 1:24,000)

Historical data.--Flood of Apr. 28, 1966, reached the highest stage since at least 1903.

Remarks.--Five recording rain gages installed in 1961 are located in the watershed above this station and tabulations of significant rainfall and runoff data are on file in the U.S. Geological Survey District office. The watershed is in a highly developed urban area.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1947 | Aug. 27, 1947 | 6.8 | 3,350 |
| 1948 | May 11, 1948 | 4.68 | 1,630 |
| 1949 | May 18, 1949 | 6.15 | 2,800 |
| 1950 | May 1, 1950 | 5.29 | 2,060 |
| 1951 | Sept. 12, 1951 | 4.82 | 1,700 |
| 1952 | May 17, 1952 | 5.47 | 2,220 |
| 1953 | Apr. 23, 1953 | 3.54 | 910 |
| 1954 | Apr. 12, 1954 | 6.40 | 2,980 |
| 1955 | June 18, 1955 | 3.44 | 852 |
| 1956 | May 1, 1956 | 4.84 | 1,740 |
| 1957 | Apr. 26, 1957 | 7.30 | 3,850 |
| 1958 | Apr. 26, 1958 | 6.54 | 3,070 |
| 1959 | Feb. 14, 1959 | 4.47 | 1,460 |
| 1960 | Oct. 1, 1959 | 8.10 | 4,650 |
| 1961 | Oct. 13, 1960 | 4.08 | 1,240 |
| 1962 | July 27, 1962 | 7.96 | 4,640 |
| 1963 | Apr. 28, 1963 | 7.77 | 4,290 |
| 1964 | Sept. 21, 1964 | 6.79 | 3,240 |
| 1965 | May 10, 1965 | 7.97 | 4,520 |

TRINITY RIVER BASIN

08056500 Turtle Creek at Dallas, Tex. (18)--Continued

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 28, 1966 | 10.54 | 12,200 |
| 1967 | Apr. 21, 1967 | 5.14 | 1,790 |
| 1968 | May 13, 1968 | 6.77 | 3,220 |
| 1969 | May 6, 1969 | 9.96 | 8,840 |
| 1970 | Oct. 12, 1969 | 6.68 | 3,130 |
| 1971 | Aug. 14, 1971 | 5.87 | 2,400 |
| 1972 | Oct. 19, 1971 | 7.14 | 3,590 |

TRINITY RIVER BASIN

08057020 Coombs Creek at Sylvan Avenue, Dallas, Tex. (18)

Location.--Lat 32°46'01", long 96°50'07", Dallas County, at bridge on Sylvan Avenue, Dallas, and 1.2 miles (1.9 km) upstream from mouth.

Drainage area.--4.75 mi² (12.3 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1953.

Remarks.--Urbanizing.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1965 | May 10, 1965 | 426.55 | 4,260 |
| 1966 | Apr. 28, 1966 | 423.33 | 2,780 |
| 1967 | June 12, 1967 | 420.50 | 1,570 |
| 1968 | June 16, 1968 | 423.59 | 2,900 |
| 1969 | May 6, 1969 | 423.72 | 2,960 |
| 1970 | Oct. 12, 1969 | 422.63 | 2,460 |
| 1971 | May 29, 1971 | 423.18 | 2,700 |
| 1972 | Oct. 19, 1971 | 422.85 | 2,560 |

TRINITY RIVER BASIN

08057050 Cedar Creek at Bonnie View Road, Dallas, Tex. (18)

Location.--Lat 32°44'50", long 96°47'44", Dallas County, at bridge on Bonnie View Road, Dallas, and 0.9 mile (1.4 km) upstream from mouth.

Drainage area.--9.42 mi² (24.40 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1953.

Remarks.--Urbanizing.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1965 | May 10, 1965 | 404.15 | 7,300 |
| 1966 | Apr. 28, 1966 | 404.04 | 6,260 |
| 1967 | Apr. 21, 1967 | 398.04 | 2,140 |
| 1968 | June 16, 1968 | 404.3 | 7,500 |
| 1969 | May 6, 1969 | a407.14 | b4,250 |
| 1970 | Oct. 12, 1969 | 402.15 | 5,290 |
| 1971 | May 29, 1971 | 401.66 | 4,840 |
| 1972 | Oct. 19, 1971 | 405.48 | 6,780 |

- a Occurred May 8, 1969.
- b Affected by backwater.

TRINITY RIVER BASIN

08057120 Spanky Branch at McCallum Lane, Dallas, Tex. (18)

Location.--Lat 32°57'58", long 96°48'11", Dallas County, at bridge on McCallum Lane, Dallas, and 0.5 mile (0.8 km) upstream from mouth.

Drainage area.--6.77 mi² (17.53 km²).

Gage.--Crest stage only. Datum of gage is mean sea level, datum of 1929.

Historical data.--Maximum elevation known since at least 1917, that of Sept. 21, 1964, from information by local residents.

Remarks.--Rural.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1962 | July 27, 1962 | 567.03 | 4,020 |
| 1963 | Oct. 8, 1962 | 564.61 | 3,000 |
| 1964 | Sept. 21, 1964 | 572.02 | 7,870 |
| 1965 | May 10, 1965 | 563.91 | 2,650 |
| 1966 | Apr. 28, 1966 | 569.3 | 5,000 |
| 1967 | May 31, 1967 | 556.27 | 635 |
| 1968 | Mar. 20, 1968 | 559.58 | 1,470 |
| 1969 | May 6, 1969 | 566.69 | 3,680 |
| 1970 | Apr. 25, 1970 | 560.13 | 1,630 |
| 1971 | Aug. 14, 1971 | 558.93 | 1,330 |
| 1972 | Dec. 9, 1971 | 563.91 | 2,670 |

TRINITY RIVER BASIN

08057140 Cottonwood Creek at Forest Lane, Dallas, Tex. (18)

Location.--Lat 32°54'33", long 96°45'54", Dallas County, at bridge on Forest Lane, Dallas, and 0.2 mile (0.3 km) upstream from Floyd Branch.

Drainage area.--8.50 mi² (22.0 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1953.

Historical data.--Maximum elevation known since at least 1892, that of Apr. 28, 1966.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1962 | July 27, 1962 | 509.90 | 5,090 |
| 1963 | Oct. 8, 1962 | 511.74 | 17,400 |
| 1964 | Sept. 21, 1964 | 510.09 | 6,200 |
| 1965 | May 10, 1965 | 509.49 | 4,450 |
| 1966 | Apr. 28, 1966 | 512.32 | 17,600 |
| 1967 | May 31, 1967 | 509.20 | 4,080 |
| 1968 | Aug. 13, 1968 | 505.51 | 1,380 |
| 1969 | May 6, 1969 | 509.52 | 4,530 |
| 1970 | May 30, 1970 | 508.56 | 3,260 |
| 1971 | July 28, 1971 | 503.82 | 450 |
| 1972 | Oct. 3, 1971 | 508.49 | 3,180 |

TRINITY RIVER BASIN

08057160 Floyd Branch at Forest Lane, Dallas, Tex. (18)

Location.--Lat 32°54'33", long 96°45'34", Dallas County, at bridge on Forest Lane, Dallas, and 0.3 mile (0.5 km) upstream from mouth.

Drainage area.--4.17 mi² (10.8 km²).

Gage.--Crest stage only. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1953.

Historical data.--Maximum elevation known since at least 1909, that of Apr. 28, 1966.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1962 | July 27, 1962 | 509.62 | 3,200 |
| 1963 | Oct. 8, 1962 | 512.63 | 4,850 |
| 1964 | Sept. 21, 1964 | 510.26 | 3,500 |
| 1965 | May 10, 1965 | 508.87 | 2,850 |
| 1966 | Apr. 28, 1966 | 514.19 | 8,590 |
| 1967 | - | <503.65 | <1,170 |
| 1968 | Mar. 20, 1968 | 503.39 | 1,110 |
| 1969 | May 6, 1969 | 509.96 | 3,350 |
| 1970 | May 30, 1970 | 509.40 | 3,100 |
| 1971 | July 28, 1971 | 503.90 | 1,240 |
| 1972 | Oct. 3, 1971 | 507.75 | 2,460 |

< Less than amount shown.

TRINITY RIVER BASIN

08057320 Ash Creek at Highland Road, Dallas, Tex. (18)

Location.--Lat 32°48'18", long 96°43'04", Dallas County, at bridge on Highland Road, Dallas, and 0.4 mile (0.6 km) upstream from mouth.

Drainage area.--6.92 mi² (17.92 km²).

Gage.--Crest stage only. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1961.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1963 | Apr. 28, 1963 | 430.99 | 4,700 |
| 1964 | Sept. 21, 1964 | <427.28 | <3,150 |
| 1965 | May 10, 1965 | 429.74 | 3,600 |
| 1966 | Apr. 28, 1966 | 431.38 | 5,180 |
| 1967 | May 31, 1967 | 429.52 | 3,400 |
| 1968 | Apr. 19, 1968 | 427.58 | 1,540 |
| 1969 | May 6, 1969 | 423.94 | 4,330 |
| 1970 | May 30, 1970 | 420.56 | 1,240 |
| 1971 | July 28, 1971 | 419.75 | 775 |
| 1972 | Oct. 19, 1971 | 425.47 | 6,200 |

< Less than amount shown.

TRINITY RIVER BASIN

08057340 Forney Creek at Lawnview Avenue, Dallas, Tex. (18)

Location.--Lat 32°46'45", long 96°43'02", Dallas County, at culvert on Lawnview Avenue, Dallas, and 0.8 mile (1.3 km) upstream from mouth.

Drainage area.--1.84 mi² (4.77 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1961.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1963 | Apr. 28, 1963 | 431.36 | 621 |
| 1964 | Sept. 21, 1964 | 430.04 | 245 |
| 1965 | May 10, 1965 | 431.21 | 566 |
| 1966 | Apr. 28, 1966 | 435.42 | 1,090 |
| 1967 | - | - | - |
| 1968 | Mar. 20, 1968 | 428.80 | 394 |
| 1969 | May 6, 1969 | 435.92 | 1,130 |
| 1970 | May 30, 1970 | 429.70 | 542 |
| 1971 | Apr. 17, 1971 | 431.33 | 756 |
| 1972 | Oct. 19, 1971 | 436.26 | 1,150 |

TRINITY RIVER BASIN

08057420 Fivemile Creek at U.S. Highway 77, Dallas, Tex. (18)

Location.--Lat 32°41'15", long 96°49'22", Dallas County, at bridge on U.S. Highway 77, Dallas, 0.2 mile (0.3 km) upstream from Woody Branch, and 8 miles (13 km) upstream from mouth.

Drainage area.--13.2 mi² (34.2 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1961.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1965 | May 10, 1965 | 464.88 | 2,400 |
| 1966 | Apr. 28, 1966 | 470.32 | 7,000 |
| 1967 | June 12, 1967 | 459.78 | 1,440 |
| 1968 | Sept. 24, 1968 | 463.70 | 2,880 |
| 1969 | May 6, 1969 | 475.86 | 11,800 |
| 1970 | May 30, 1970 | 469.43 | 6,380 |
| 1971 | Oct. 26, 1970 | 466.78 | 4,840 |
| 1972 | Oct. 19, 1971 | 470.95 | 7,440 |

TRINITY RIVER BASIN

08057425 Woody Branch at U.S. Highway 77, Dallas, Tex. (18)

Location.--Lat 32°40'58", long 96°49'22", Dallas County, at bridge on U.S. Highway 77, Dallas, and 0.4 mile (0.6 km) upstream from mouth.

Drainage area.--11.5 mi² (29.8 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1961.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1965 | May 10, 1965 | 469.81 | 3,230 |
| 1966 | Apr. 28, 1966 | 473.55 | 4,540 |
| 1967 | June 12, 1967 | 464.13 | 802 |
| 1968 | Sept. 4, 1968 | 468.50 | 2,680 |
| 1969 | May 6, 1969 | 481.50 | 7,160 |
| 1970 | Apr. 25, 1970 | 472.34 | 4,120 |
| 1971 | Oct. 26, 1970 | 474.56 | 4,900 |
| 1972 | Oct. 19, 1971 | 476.30 | 5,500 |

TRINITY RIVER BASIN

08057430 Fivemile Creek at Lancaster Road, Dallas, Tex. (18)

Location.--Lat 32°40'49", long 96°47'10", Dallas County, at bridge on Lancaster Road, Dallas, and 6.7 miles (10.8 km) upstream from mouth.

Drainage area.--37.9 mi² (98.2 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1961.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1965 | May 10, 1965 | 431.7 | 2,520 |
| 1966 | Apr. 28, 1966 | 437.68 | 9,150 |
| 1967 | June 12, 1967 | 430.85 | 1,760 |
| 1968 | Sept. 4, 1968 | 436.14 | 6,900 |
| 1969 | May 6, 1969 | 442.97 | 15,900 |
| 1970 | May 30, 1970 | 435.96 | 7,260 |
| 1971 | Oct. 26, 1970 | 436.51 | 7,860 |
| 1972 | Oct. 19, 1971 | 438.04 | 9,550 |

TRINITY RIVER BASIN

08057500 Honey Creek subwatershed No. 11
near McKinney, Tex. (18)

Location.--Lat 33°18'12", long 96°41'22", Collin County, near center of dam on unnamed tributary of Honey Creek, 1.5 miles (2.4 km) west of Farm Road 543, and 8.4 miles (13.5 km) northwest of McKinney.

Drainage area.--2.14 mi² (5.54 km²).

Gage.--Recording. Datum of gage is 629.00 ft (191.72 m) above mean sea level, datum of 1929.

Remarks.--Peak discharge based on maximum inflow (average for 5- or 30-minute intervals), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. Recording rain gage located at station. Tabulations of significant rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1953 | May 15, 1953 | 268 |
| 1954 | June 8, 1954 | 235 |
| 1955 | Feb. 19, 1955 | 42 |
| 1956 | Feb. 17, 1956 | 264 |
| 1957 | May 21, 1957 | 1,630 |
| 1958 | May 1, 1958 | 1,880 |
| 1959 | July 24, 1959 | 156 |
| 1960 | Aug. 26, 1960 | 320 |
| 1961 | May 1, 1961 | 1,320 |
| 1962 | Apr. 27, 1962 | 169 |
| 1963 | May 30, 1963 | 546 |
| 1964 | Sept. 21, 1964 | 1,380 |
| 1965 | Nov. 18, 1964 | 842 |
| 1966 | Apr. 30, 1966 | 3,380 |
| 1967 | May 30, 1967 | 530 |
| 1968 | Mar. 20, 1968 | 827 |
| 1969 | May 17, 1969 | 958 |
| 1970 | Apr. 25, 1970 | 2,000 |
| 1971 | July 29, 1971 | 64 |
| 1972 | Dec. 9, 1971 | 912 |

TRINITY RIVER BASIN

08058000 Honey Creek subwatershed No. 12
near McKinney, Tex. (18)

Location.--Lat 33°18'20", long 96°40'12", Collin County, near center of dam on unnamed tributary of Honey Creek, 0.5 mile (0.8 km) west west of Farm Road 543, and 7.8 miles (12.6 km) northwest of McKinney.

Drainage area.--1.26 mi² (3.26 km²).

Gage.--Recording. Datum of gage is 623.00 ft (189.89 m) above mean sea level, datum of 1929.

Remarks.--Peak discharge based on maximum inflow (average for 5- or 30-minute interval), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. One nonrecording and two recording rain gages located in the watershed above the station. Tabulations of significant rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1953 | Apr. 28, 1953 | a423 |
| 1954 | June 15, 1954 | 212 |
| 1955 | Oct. 23, 1954 | 123 |
| 1956 | Feb. 17, 1956 | 295 |
| 1957 | May 21, 1957 | 1,490 |
| 1958 | May 1, 1958 | 1,410 |
| 1959 | July 24, 1959 | 40 |
| 1960 | June 8, 1960 | 286 |
| 1961 | May 1, 1961 | 589 |
| 1962 | Apr. 24, 1962 | 158 |
| 1963 | May 30, 1963 | 663 |
| 1964 | Sept. 21, 1964 | 850 |
| 1965 | May 28, 1965 | 791 |
| 1966 | Apr. 30, 1966 | 1,370 |
| 1967 | May 30, 1967 | 907 |
| 1968 | Mar. 20, 1968 | 624 |
| 1969 | May 6, 1969 | 858 |
| 1970 | Apr. 25, 1970 | 1,270 |
| 1971 | July 29, 1971 | 34 |
| 1972 | Dec. 9, 1971 | 448 |

a Unadjusted for rainfall on water surface.

TRINITY RIVER BASIN

08059200 Arls Branch near Westminster, Tex. (18)

Location.--Lat 33°21'20", long 96°26'35", Collin County, at culvert on State Highway 121 and 1.2 miles (1.9 km) east of Westminster.

Drainage area.--0.52 mi² (1.35 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.00 mile (1.6 km); slope index, 86 ft/mi (16 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 21, 1965 | 13.48 | 170 |
| 1966 | Apr. 28, 1966 | 14.95 | 310 |
| 1967 | May 30, 1967 | 16.97 | 500 |
| 1968 | May 10, 1968 | 16.13 | 420 |
| 1969 | May 7, 1969 | 14.69 | 287 |
| 1970 | Mar. 2, 1970 | 15.09 | 325 |
| 1971 | July 30, 1971 | 17.97 | 588 |
| 1972 | Oct. 9, 1971 | 16.47 | 457 |

a Maximum for period June 23 to Sept. 30, 1965.

TRINITY RIVER BASIN

08061620 Duck Creek at Buckingham Road, Garland, Tex. (18)

Location.--Lat 32°55'53", long 96°39'55", Dallas County, at dam 200 ft (61 m) upstream from Buckingham Road in north Garland and 17.5 miles (28.2 km) upstream from mouth.

Drainage area.--8.05 mi² (20.85 km²).

Gage.--Stage recorder.

Remarks.--This station operated as research project for runoff from urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1969 | May 6, 1969 | a564.04 | 4,640 |
| 1970 | May 30, 1970 | 562.63 | 2,500 |
| 1971 | July 28, 1971 | 560.77 | 650 |
| 1972 | Oct. 3, 1971 | 562.87 | 2,800 |

a Maximum for period March to September 1969.

TRINITY RIVER BASIN

08061920 South Mesquite Creek at State Highway 352,
Mesquite, Tex. (18)

Location.--Lat 32°46'09", long 96°37'18", Dallas County, at bridge on
State Highway 352 in west Mesquite and 9.6 miles (15.4 km) upstream
from mouth.

Drainage area.--13.4 mi² (34.7 km²).

Gage.--Stage recorder.

Remarks.--This station operated as research project for runoff from
urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1969 | May 6, 1969 | a448.12 | b4,000 |
| 1970 | May 30, 1970 | 442.63 | 1,170 |
| 1971 | Oct. 26, 1970 | 439.41 | 761 |
| 1972 | Oct. 19, 1971 | 447.57 | 3,120 |

- a Maximum for period March to September 1969.
- b Estimated.

TRINITY RIVER BASIN

08062850 Bachelor Creek near Terrell, Tex. (18)

Location.--Lat 32°42'42", long 96°17'52", Kaufman County, at culvert on Interstate Highway 20, 1.7 miles (2.7 km) northwest of State Highway 34, and 2.2 miles (3.5 km) southwest of Terrell.

Drainage area.--13.0 mi² (33.7 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 12.0 miles (19.3 km); slope index, 8 ft/mi (2 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | May 1, 1967 | a13.92 | 430 |
| 1968 | Oct. 15, 1967 | 15.58 | 1,150 |
| 1969 | May 6, 1969 | 18.32 | 3,600 |
| 1970 | Mar. 2, 1970 | 13.98 | b465 |
| 1971 | Oct. 11, 1970 | 14.71 | 820 |
| 1972 | Oct. 19, 1971 | 16.74 | 1,600 |

a Maximum for period Jan. 31 to Sept. 30, 1967.

b Affected by backwater.

TRINITY RIVER BASIN

08063005 Red Oak Branch near Eustace, Tex. (10)

Location--Lat 32°18'36", long 95°57'38", Henderson County, at culvert on Farm Road 2709, 1.3 miles (2.1 km) upstream from Clear Creek, and 2.2 miles (3.5 km) east of Eustace.

Drainage area--0.90 mi² (2.33 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 1.66 miles (2.67 km); slope index, 40.3 ft/mi (7.6 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 26, 1966 | 16.53 | 1,300 |
| 1967 | Apr. 22, 1967 | 10.86 | 19 |
| 1968 | May 9, 1968 | 15.98 | 700 |
| 1969 | May 8, 1969 | 14.50 | 230 |
| 1970 | Dec. 12, 1969 | 12.66 | 105 |
| 1971 | Feb. 13, 1971 | 10.74 | 14 |
| 1972 | Nov. 18, 1971 | 11.26 | 36 |

TRINITY RIVER BASIN

08063180 Briar Creek tributary near Corsicana, Tex. (18)

Location.--Lat 32°02'55", long 96°34'45", Navarro County, at culvert on Farm Road 744, 1.3 miles (2.1 km) upstream from Briar Creek, and 7.7 miles (12.4 km) west of Corsicana.

Drainage area.--0.72 mi² (1.86 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.28 miles (2.06 km); slope index, 39.6 ft/mi (7.5 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 23, 1966 | 13.90 | 560 |
| 1967 | Sept. 5, 1967 | 13.08 | 390 |
| 1968 | May 10, 1968 | 14.39 | 660 |
| 1969 | Mar. 17, 1969 | 12.91 | 353 |
| 1970 | Feb. 27, 1970 | 12.69 | 320 |
| 1971 | Oct. 27, 1970 | 12.52 | 295 |
| 1972 | Oct. 19, 1971 | 13.57 | 505 |

TRINITY RIVER BASIN

08063200 Pin Oak Creek near Hubbard, Tex. (09)

Location.--Lat 31°48'05", long 96°43'10", Hill County, on right bank
85 ft (26 m) downstream from bridge on State Highway 171 and 5.8
miles (9.3 km) southeast of Hubbard.

Drainage area.--17.6 mi² (45.6 km²).

Gage.--Recording. Datum of gage is 463.08 ft (141.15 m) above mean sea
level, datum of 1929, supplementary adjustment of 1942.

Topographic characteristics.--Length of main stream, 8.0 miles (12.9 km);
slope index, 14.2 ft/mi (2.7 m/km). (Map scale, 1:24,000)

Historical data.--Maximum stage since at least 1900, about 17 ft (5 m) in
August 1919, from information by local resident.

Remarks.--Floodwater-retarding structures partially controlling 7.29 mi²
(18.88 km²) above this station were built during 1963. Six rain gages
are operated in the watershed above this station. Tabulations of sig-
nificant rainfall and runoff data are on file in the U.S. Geological
Survey District office.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1958 | Aug. 24, 1958 | 13.86 | 4,340 |
| 1959 | June 24, 1959 | 13.73 | 4,100 |
| 1960 | Oct. 4, 1959 | 11.52 | 1,810 |
| 1961 | June 18, 1961 | 11.60 | 1,870 |
| 1962 | Apr. 27, 1962 | 12.42 | 2,580 |
| 1963 | Apr. 28, 1963 | 4.52 | 89 |
| 1964 | Sept. 17, 1964 | 4.65 | 126 |
| 1965 | May 14, 1965 | 11.15 | 1,230 |
| 1966 | Apr. 24, 1966 | 11.98 | 2,040 |
| 1967 | June 12, 1967 | 9.90 | 815 |
| 1968 | May 10, 1968 | 13.03 | 3,300 |
| 1969 | Apr. 4, 1969 | 10.33 | 828 |
| 1970 | Sept. 17, 1970 | 10.48 | 896 |
| 1971 | Oct. 23, 1970 | 3.51 | 93 |
| 1972 | Dec. 9, 1971 | 10.90 | 1,080 |

TRINITY RIVER BASIN

08063550 Alvarado Branch near Alvarado, Tex. (02)

Location.--Lat 32°24'49", long 97°12'20", Johnson County, at culvert on Farm Road 1706, 0.2 mile (0.3 km) south of U.S. Highway 67, and 0.6 mile (1.0 km) northeast of Alvarado.

Drainage area.--0.84 mi² (2.18 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.42 miles (2.28 km); slope index, 50 ft/mi (9 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | - | a<10.63 | <15 |
| 1966 | Apr. 25, 1966 | 14.42 | 550 |
| 1967 | Sept. 22, 1967 | 12.01 | 170 |
| 1968 | May 9, 1968 | 14.63 | 590 |
| 1969 | May 7, 1969 | 16.35 | 920 |
| 1970 | Apr. 25, 1970 | b16.95 | c940 |
| 1971 | Oct. 23, 1970 | 13.10 | 326 |
| 1972 | Oct. 19, 1971 | 13.93 | 454 |

< Less than amount shown.

a Maximum for period July 26 to Sept. 30, 1965.

b Occurred at different time than peak discharge.

c Estimated.

TRINITY RIVER BASIN

08063620 Kings Branch near Reagor Springs, Tex. (18)

Location.--Lat 32°20'41", long 96°47'02", Ellis County, at culvert on Rock Island and Pacific Railroad, 0.7 mile (1.1 km) upstream from Waxahachie Creek, and 1.8 miles (2.9 km) northwest of Reagor Springs.

Drainage area.--0.62 mi² (1.61 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.18 miles (1.90 km); slope index, 44 ft/mi (8 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | May 16, 1965 | 18.50 | 580 |
| 1966 | Apr. 24, 1966 | 17.52 | 470 |
| 1967 | - | <11.21 | <12 |
| 1968 | Aug. 27, 1968 | 15.91 | 305 |
| 1969 | May 7, 1969 | a16.80 | 395 |
| 1970 | Apr. 25, 1970 | 18.92 | 620 |
| 1971 | Aug. 26, 1971 | 13.37 | 107 |
| 1972 | Oct. 19, 1971 | 15.88 | 302 |

< Less than amount shown.
a Estimated.

TRINITY RIVER BASIN

08064630 Saline Branch tributary near Bethel, Tex. (10)

Location.--Lat 31°55'46", long 95°55'58", Anderson County, at culvert on U.S. Highway 287 and 1.0 mile (1.6 km) northwest of Bethel.

Drainage area.--0.22 mi² (0.57 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.57 mile (0.92 km); slope index, 93 ft/mi (18 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Sept. 9, 1966 | a4.36 | 51 |
| 1967 | Apr. 13, 1967 | 3.88 | 36 |
| 1968 | Mar. 11, 1968 | 4.65 | 61 |
| 1969 | Apr. 12, 1969 | 5.5 | b92 |
| 1970 | Dec. 5, 1969 | 4.03 | 41 |
| 1971 | July 28, 1971 | 3.71 | 32 |
| 1972 | Jan. 4, 1972 | 5.83 | 105 |

a Maximum for period July 20 to Sept. 30, 1966.

b Estimated.

TRINITY RIVER BASIN

08065320 Mayes Branch near Latexo, Tex. (11)

Location.--Lat 31°25'58", long 95°28'29", Houston County, at culvert on U.S. Highway 287 and 2.6 miles (4.2 km) north of Latexo.

Drainage area.--4.26 mi² (11.03 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.60 miles (5.79 km); slope index, 36 ft/mi (7 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | - | a<1.73 | (†) |
| 1967 | - | <1.73 | (†) |
| 1968 | Sept. 5, 1968 | 5.31 | 236 |
| 1969 | Apr. 12, 1969 | 5.8 | 335 |
| 1970 | Oct. 30, 1969 | 5.12 | 202 |
| 1971 | - | <4.96 | <173 |
| 1972 | - | <4.96 | <173 |

† Discharge not determined.

< Less than amount shown.

a Maximum for period July 26 to Sept. 30, 1966.

TRINITY RIVER BASIN

08066280 Bluff Creek tributary near Livingston, Tex. (11)

Location.--Lat 30°41'52", long 94°46'58", Polk County, at culvert on U.S. Highway 190 and 9.2 miles (14.8 km) east of Livingston.

Drainage area.--0.62 mi² (1.61 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.38 miles (2.22 km); slope index, 50.5 ft/mi (9.6 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | a<1.37 | <20 |
| 1966 | - | <1.37 | <20 |
| 1967 | - | <1.37 | <20 |
| 1968 | June 22, 1968 | 4.26 | 145 |
| 1969 | May 6, 1969 | 7.75 | b170 |
| 1970 | May 1, 1970 | 2.61 | 26 |
| 1971 | Oct. 23, 1970 | 2.28 | 10 |
| 1972 | May 12, 1972 | 3.43 | 75 |

< Less than amount shown.

a Maximum for period Aug. 20 to Sept. 30, 1965.

b Estimated.

SAN JACINTO RIVER BASIN

08067550 Welch Branch near Huntsville, Tex. (17)

Location--Lat 30°38'33", long 95°40'47", Walker County, at culvert on Farm Road 1791 and 6.9 miles (11.1 km) southwest of Huntsville.

Drainage area--2.35 mi² (6.09 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 4.7 miles (7.6 km); slope index, 20 ft/mi (4 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | a<2.46 | <12 |
| 1966 | Apr. 24, 1966 | b5.30 | 127 |
| 1967 | - | <2.46 | <12 |
| 1968 | June 21, 1968 | 5.09 | 138 |
| 1969 | Apr. 12, 1969 | 7.83 | 470 |
| 1970 | Mar. 17, 1970 | 4.34 | 65 |
| 1971 | May 11, 1971 | 5.87 | 182 |
| 1972 | May 12, 1972 | 7.19 | 273 |

< Less than amount shown.

a Maximum for period Aug. 19 to Sept. 30, 1965.

b Occurred on Feb. 10, 1966, backwater from log jam in channel downstream from gage.

SAN JACINTO RIVER BASIN

08067750 Landrum Creek tributary near Montgomery, Tex. (12)

Location.--Lat 30°21'03", long 95°41'50", Montgomery County, at culvert on State Highway 149 and 2.4 miles (3.9 km) south of Montgomery.

Drainage area.--0.13 mi² (0.34 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.47 mile (0.76 km); slope index, 171 ft/mi (32 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | - | a<1.94 | (†) |
| 1966 | Apr. 24, 1966 | 7.88 | 114 |
| 1967 | Sept. 21, 1967 | 5.13 | 57 |
| 1968 | Mar. 10, 1968 | 8.82 | 129 |
| 1969 | Apr. 27, 1969 | 4.86 | 51 |
| 1970 | Apr. 10, 1970 | 2.74 | 15 |
| 1971 | Oct. 11, 1970 | 7.28 | 104 |
| 1972 | Mar. 20, 1972 | 4.45 | 44 |

† Discharge not determined.

< Less than amount shown.

a Maximum for period Aug. 18 to Sept. 30, 1965.

SAN JACINTO RIVER BASIN

08068300 Mill Creek tributary near Dobbin, Tex. (12)

Location.--Lat 30°15'37", long 95°46'14", Montgomery County, at culvert on Farm Road 1486 and 7.8 miles (12.6 km) south of Dobbin.

Drainage area.--4.07 mi² (10.54 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.65 miles (5.87 km); slope index, 15 ft/mi (3 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | Sept. 21, 1967 | a3.50 | 19 |
| 1968 | June 24, 1968 | 8.25 | 670 |
| 1969 | Feb. 21, 1969 | 7.39 | 410 |
| 1970 | - | <2.77 | <10 |
| 1971 | Oct. 11, 1970 | 5.20 | 90 |
| 1972 | Apr. 27, 1972 | 8.91 | 1,650 |

< Less than amount shown.

a Maximum for period Mar. 16 to Sept. 30, 1967.

SAN JACINTO RIVER BASIN

08069850 Bear Creek near Cleveland, Tex. (11)

Location.--Lat 30°26'58", long 95°13'11", San Jacinto County, at culvert on Farm Road 1725 and 12.9 miles (20.8 km) northwest of Cleveland.

Drainage area.--1.46 mi² (3.78 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.25 miles (3.62 km); slope index, 45 ft/mi (9 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | - | a<2.58 | <80 |
| 1968 | June 24, 1968 | 4.71 | 290 |
| 1969 | May 6, 1969 | 3.40 | 156 |
| 1970 | - | <2.58 | <80 |
| 1971 | - | <2.58 | <80 |
| 1972 | Mar. 20, 1972 | 3.36 | 153 |

< Less than amount shown.

a Maximum for period Mar. 15 to Sept. 30, 1967.

SAN JACINTO RIVER BASIN

08073750 Stoney Brook Street Ditch at Houston, Tex. (12)

Location--Lat 29°44'05", long 95°30'22", Harris County, at culvert on Stoney Brook Street in west Houston.

Drainage area--0.50 mi² (1.30 km²).

Gage--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1964.

Remarks--Drainage area is urban. Impervious cover was 33 percent as of October 1966.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1967 | Sept. 21, 1967 | 65.78 | 145 |
| 1968 | Sept. 14, 1968 | 67.54 | 247 |
| 1969 | Sept. 19, 1969 | 65.34 | 144 |
| 1970 | May 21, 1970 | 65.68 | 157 |
| 1971 | Oct. 11, 1970 | 67.21 | 230 |
| 1972 | May 12, 1972 | 65.74 | 160 |

SAN JACINTO RIVER BASIN

08073800 Bering Ditch at Woodway Drive, Houston, Tex. (12)

Location.--Lat 29°45'22", long 95°29'44", Harris County, at bridge on Woodway Drive in west Houston.

Drainage area.--2.74 mi² (7.10 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustments of 1957 and 1959.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1965 | Dec. 10, 1964 | 53.14 | 91 |
| 1966 | May 18, 1966 | 55.58 | 724 |
| 1967 | Sept. 21, 1967 | 55.30 | 535 |
| 1968 | Sept. 14, 1968 | 57.81 | 1,580 |
| 1969 | Nov. 30, 1968 | 55.58 | 694 |
| 1970 | May 21, 1970 | 55.15 | 1,280 |
| 1971 | Oct. 11, 1970 | 58.47 | 1,900 |
| 1972 | May 12, 1972 | 57.26 | 1,240 |

SAN JACINTO RIVER BASIN

08074100 Cole Creek at Guhn Road, Houston, Tex. (12)

Location.--Lat 29°51'24", long 95°30'55", Harris County, at bridge on Guhn Road in northwest Houston.

Drainage area.--7.05 mi² (18.26 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1957.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1965 | Feb. 16, 1965 | 87.06 | 266 |
| 1966 | Apr. 14, 1966 | 90.39 | 744 |
| 1967 | Apr. 13, 1967 | 85.79 | 79 |
| 1968 | May 12, 1968 | 89.94 | 503 |
| 1969 | Feb. 21, 1969 | 91.30 | 708 |
| 1970 | May 1, 1970 | 89.47 | 321 |
| 1971 | Oct. 23, 1970 | 91.47 | 522 |
| 1972 | Mar. 20, 1972 | 92.44 | 878 |

SAN JACINTO RIVER BASIN

08074150 Cole Creek at Deihl Road at Houston, Tex. (12)

Location.--Lat 29°51'04", long 95°29'16", Harris County, on downstream side of bridge at Deihl Road in northwest Houston and 1.8 miles (2.9 km) upstream from mouth.

Drainage area.--At Deihl Road, Apr. 14, 1964, to Apr. 1, 1965, 10.0 mi² (25.9 km²); Apr. 2 to May 17, 1965, 8.81 mi² (22.82 km²). At Antoine Drive, May 18 to Aug. 1, 1965, 9.94 mi² (25.74 km²); Aug. 2, 1965, to Sept. 1, 1966, 10.2 mi² (26.4 km²). At Deihl Road, Sept. 2, 1966, to Sept. 30, 1968, 8.81 mi² (22.82 km²). Drainage area changes caused by changes in storm sewers.

Gage.--Water-stage recorder. Datum of gage is mean sea level, datum of 1929, adjustment of 1957.

Remarks.--Station was established at Deihl Road and was temporarily relocated to Antoine Drive because of bridge construction and channel rectification. On Sept. 2, 1966, station was moved back to Deihl Deihl Road. Recording rain gage located at station.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1964 | May 31, 1964 | - | a400 |
| 1965 | Feb. 16, 1965 | 78.23 | 338 |
| 1966 | Apr. 14, 1966 | c71.50 | b950 |
| 1967 | May 29, 1967 | d71.84 | 160 |
| 1968 | May 10, 1968 | 75.88 | 810 |
| 1969 | Feb. 21, 1969 | 74.82 | 966 |
| 1970 | May 15, 1970 | 75.38 | 453 |
| 1971 | Oct. 23, 1970 | 77.21 | 762 |
| 1972 | Mar. 20, 1972 | 78.60 | 2,020 |

a Maximum for period April to September 1964.

b Estimated.

c Backwater from Whiteoak Bayou.

d Occurred Sept. 21, 1967, backwater from channel vegetation.

SAN JACINTO RIVER BASIN

08074200 Brickhouse Gully at Clarblak Street,
Houston, Tex. (12)

Location.--Lat 29°49'53", long 95°31'42", Harris County, at bridge on
Clarblak Street in northwest Houston.

Drainage area.--2.05 mi² (5.31 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929,
supplementary adjustment of 1957.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1965 | Feb. 16, 1965 | 89.46 | 54 |
| 1966 | Apr. 14, 1966 | 90.46 | 121 |
| 1967 | Sept. 21, 1967 | 89.78 | 73 |
| 1968 | May 10, 1968 | 92.58 | 328 |
| 1969 | Feb. 21, 1969 | 92.30 | 294 |
| 1970 | July 21, 1970 | 91.66 | 169 |
| 1971 | Oct. 23, 1970 | 93.54 | 314 |
| 1972 | Mar. 20, 1972 | 94.28 | 399 |

SAN JACINTO RIVER BASIN

08074250 Brickhouse Gully at Costa Rica Street at
Houston, Tex. (12)

Location.--Lat 29°49'40", long 95°28'09", Harris County, on right bank
at downstream side of bridge at Costa Rica Street in northwest
Houston and 1.0 mile (1.6 km) upstream from Whiteoak Bayou.

Drainage area.--10.4 mi² (26.9 km²). Prior to May 1965, 10.5 mi² (27.2
km²); May to August 1965, 10.7 mi² (27.7 km²); August 1965 to Septem-
ber 1967, 10.5 mi² (27.2 km²). Drainage area changes caused by changes
in storm sewers.

Gage.--Water-stage recorder. Datum of gage is mean sea level, datum
of 1929, adjustment of 1957.

Remarks.--Recording rain gage located at station.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1964 | Aug. 23, 1964 | a60.08 | 235 |
| 1965 | Sept. 22, 1965 | b64.60 | 550 |
| 1966 | Apr. 14, 1966 | 64.87 | 1,040 |
| 1967 | Sept. 21, 1967 | 59.45 | 323 |
| 1968 | May 10, 1968 | 65.94 | 2,280 |
| 1969 | Feb. 21, 1969 | 61.24 | 1,370 |
| 1970 | May 1, 1970 | 59.48 | 925 |
| 1971 | Oct. 23, 1970 | 64.70 | 2,800 |
| 1972 | Mar. 20, 1972 | 69.20 | 5,800 |

a Maximum for period August to September 1964.

b Backwater from construction dam.

SAN JACINTO RIVER BASIN

08074800 Keegans Bayou at Roark Road near Houston, Tex. (12)

Location.--Lat 29°39'23", long 95°33'43", Harris County, on left bank at downstream side of bridge on Roark Road and about 2 miles (3 km) southwest of city limits of Houston.

Drainage area.--9.28 mi² (24.04 km²). Prior to Jan. 1, 1967, 9.66 mi² (25.02 km²), due to drainage ditch changes.

Gage.--Water-stage recorder. Datum of gage is mean sea level, datum of 1929 through 1957 adjustment.

Remarks.--Recording rain gage located at station.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|------------------|-----------------------|-------------------------------------|
| 1965 | Dec. 10, 1964 | 66.43 | 140 |
| 1966 | Apr. 14, 1966 | 67.64 | 588 |
| 1967 | Jan. 13-14, 1967 | a64.83 | 43 |
| 1968 | June 23, 1968 | 67.89 | 352 |
| 1969 | May 3, 1969 | 67.27 | 659 |
| 1970 | May 21, 1970 | 69.34 | 547 |
| 1971 | Oct. 11, 1970 | 71.88 | 751 |
| 1972 | May 12, 1972 | 72.57 | 1,060 |

a Occurred Sept. 21, 1967, backwater from channel vegetation.

SAN JACINTO RIVER BASIN.

08074850 Bintliff Ditch at Bissonnet Street, Houston, Tex. (12)

Location.--Lat 29°41'16", long 95°30'20", Harris County, at bridge on Bissonnet Street in southwest Houston.

Drainage area.--4.29 mi² (11.11 km²).

Gage.--Recording.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1968 | Sept. 14, 1968 | 62.19 | a1,030 |
| 1969 | Sept. 15, 1969 | 61.75 | 968 |
| 1970 | May 21, 1970 | 60.48 | 808 |
| 1971 | Oct. 11, 1970 | 62.82 | 1,120 |
| 1972 | June 10, 1972 | 61.46 | 930 |

a Maximum for period August to September 1968; probably peak for year.

SAN JACINTO RIVER BASIN

08074900 Willow Waterhole Bayou at Landsdowne Street,
Houston, Tex. (12)

Location.--Lat 29°39'01", long 95°29'11", Harris County, at bridge on
Landsdowne Street in southwest Houston.

Drainage area.--11.2 mi² (29.0 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929,
supplementary adjustment of 1957.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1965 | Dec. 10, 1964 | 56.88 | 350 |
| 1966 | Apr. 14, 1966 | 60.00 | 1,300 |
| 1967 | Aug. 25, 1967 | 57.90 | 450 |
| 1968 | June 23, 1968 | 60.76 | 1,680 |
| 1969 | Feb. 21, 1969 | 58.96 | 884 |
| 1970 | May 21, 1970 | 59.56 | 844 |
| 1971 | Oct. 11, 1970 | 61.05 | 1,350 |
| 1972 | June 10, 1972 | 59.49 | 847 |

SAN JACINTO RIVER BASIN

08075300 Sims Bayou at Carlsbad Street, Houston, Tex. (12)

Location.--Lat 29°37'33", long 95°29'56", Harris County, at bridge on Carlsbad Street in southwest Houston.

Drainage area.--4.99 mi² (12.92 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1957.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1965 | June 18, 1965 | 60.71 | 108 |
| 1966 | Apr. 14, 1966 | 62.59 | 320 |
| 1967 | Sept. 21, 1967 | 62.59 | 314 |
| 1968 | June 23, 1968 | 63.45 | 470 |
| 1969 | Feb. 21, 1969 | 61.52 | 220 |
| 1970 | May 21, 1970 | 62.43 | 342 |
| 1971 | Oct. 11, 1970 | 63.77 | 454 |
| 1972 | May 12, 1972 | 62.68 | 357 |

SAN JACINTO RIVER BASIN

08075400 Sims Bayou at Hiram Clarke Street at Houston, Tex. (12)

Location.--Lat 29°37'07", long 95°26'45", Harris County, on right bank at downstream side of Hiram Clarke Street bridge in southwest section of Houston, 12.7 miles (20.4 km) upstream from gage, Sims Bayou at Houston, and 19.7 miles (31.7 km) upstream from mouth.

Drainage area.--20.2 mi² (52.3 km²).

Gage.--Water-stage recorder. Datum of gage is mean sea level, datum of 1929, adjustment of 1929.

Remarks.--Recording rain gage located at station.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1964 | Sept. 17, 1964 | a43.83 | 96 |
| 1965 | Dec. 10, 1964 | 48.70 | 960 |
| 1966 | Apr. 14, 1966 | 51.08 | 2,280 |
| 1967 | Sept. 21, 1967 | 46.77 | 350 |
| 1968 | June 23, 1968 | 52.35 | 2,200 |
| 1969 | Feb. 21, 1969 | 52.08 | 2,280 |
| 1970 | May 21, 1970 | 52.69 | 2,320 |
| 1971 | Oct. 11, 1970 | 52.77 | 2,230 |
| 1972 | May 12, 1972 | 51.30 | 2,020 |

a Maximum for period August to September 1964.

SAN JACINTO RIVER BASIN

08075550 Berry Bayou at Gilpin Street, Houston, Tex. (12)

Location.--Lat 29°38'32", long 95°13'22", Harris County, at bridge on
Gilpin Street in southeast Houston.

Drainage area.--3.26 mi² (8.44 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929,
supplementary adjustments of 1957 and 1959.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1965 | Dec. 10, 1964 | 34.76 | 290 |
| 1966 | Feb. 9, 1966 | 34.48 | 607 |
| 1967 | Apr. 13, 1967 | 31.83 | 235 |
| 1968 | May 10, 1968 | 35.19 | 738 |
| 1969 | Feb. 21, 1969 | 34.03 | 535 |
| 1970 | Oct. 30, 1969 | 32.71 | 285 |
| 1971 | Oct. 23, 1970 | 34.12 | 339 |
| 1972 | June 16, 1972 | 34.27 | 362 |

SAN JACINTO RIVER BASIN

08075600 Berry Bayou tributary at Globe Street,
Houston, Tex. (12)

Location.--Lat 29°39'00", long 95°14'48", Harris County, at bridge on
Globe Street in southeast Houston.

Drainage area.--1.58 mi² (4.09 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929,
supplementary adjustments of 1957 and 1959.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1965 | Dec. 10, 1964 | 37.89 | 145 |
| 1966 | Feb. 9, 1966 | 39.48 | 308 |
| 1967 | Apr. 13, 1967 | 37.27 | 114 |
| 1968 | June 22, 1968 | 39.03 | 254 |
| 1969 | Feb. 21, 1969 | 38.35 | 198 |
| 1970 | May 31, 1970 | 37.15 | 79 |
| 1971 | Oct. 23, 1970 | a38.70 | 186 |
| 1972 | May 12, 1972 | 39.38 | 218 |

a Occurred at different time than peak discharge.

SAN JACINTO RIVER BASIN

08075650 Berry Bayou at Forest Oaks Street at
Houston, Tex. (12)

Location.--Lat 29°40'35", long 95°14'37", Harris County, near left bank at downstream side of Forest Oaks Street bridge in southeast Houston, 0.8 mile (1.3 km) upstream from auxiliary gage at mouth of Berry Creek, and 1.7 miles (2.7 km) upstream from Sims Bayou.

Drainage area.--11.1 mi² (28.7 km²).

Gage.--Recording. Datum of gage is mean sea level.

Remarks.--This station operated as research project for runoff from urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1964 | Sept. 17, 1964 | a5.90 | 350 |
| 1965 | - | - | b800 |
| 1966 | Feb. 9, 1966 | c16.36 | 2,630 |
| 1967 | Apr. 13, 1967 | 9.68 | 886 |
| 1968 | May 16, 1968 | d16.98 | 3,110 |
| 1969 | Feb. 21, 1969 | 17.59 | e1,410 |
| 1970 | May 21, 1970 | f16.78 | 816 |
| 1971 | Oct. 23, 1970 | 15.58 | 1,540 |
| 1972 | Apr. 27, 1972 | 13.45 | 1,530 |

- a Maximum for period April to September 1964.
- b Estimated.
- c Occurred Apr. 14, 1966.
- d Occurred June 24, 1968.
- e Affected by backwater from Sims Bayou.
- f Occurred on May 22, 1970.

SAN JACINTO RIVER BASIN

08075700 Berry Creek at Galveston Road, Houston, Tex. (12)

Location.--Lat 29°40'59", long 95°15'11", Harris County, at bridge on Galveston Road and 0.5 mile (0.8 km) upstream from mouth in south-east Houston.

Drainage area.--4.86 mi² (12.59 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustments of 1957 and 1959.

Remarks.--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1965 | Dec. 10, 1964 | 17.57 | 280 |
| 1966 | Apr. 14, 1966 | 20.47 | 607 |
| 1967 | Apr. 13, 1967 | 16.66 | 286 |
| 1968 | May 10, 1968 | 21.56 | 789 |
| 1969 | Feb. 21, 1969 | 20.29 | 644 |
| 1970 | May 21, 1970 | 18.64 | 441 |
| 1971 | Oct. 23, 1970 | 17.75 | 370 |
| 1972 | Apr. 27, 1972 | 18.68 | 444 |

SAN JACINTO RIVER BASIN

08075750 Hunting Bayou tributary at Cavalcade Street,
Houston, Tex. (12)

Location.--Lat 29°48'00", long 95°20'02", Harris County, at bridge on
Cavalcade Street in northeast Houston.

Drainage area.--1.20 mi² (3.11 km²).

Gage.--Recording.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1965 | Sept. 22, 1965 | 43.37 | 109 |
| 1966 | Apr. 14, 1966 | 43.63 | 119 |
| 1967 | Oct. 4, 1966 | 44.14 | 140 |
| 1968 | May 10, 1968 | 44.38 | 149 |
| 1969 | Jan. 16, 1969 | 43.10 | 140 |
| 1970 | May 15, 1970 | 43.52 | 126 |
| 1971 | Oct. 23, 1970 | 46.81 | 275 |
| 1972 | Mar. 20, 1972 | 46.19 | 255 |

SAN JACINTO RIVER BASIN

08075760 Hunting Bayou at Falls Street, Houston, Tex. (12)

Location--Lat 29°48'22", long 95°19'50", Harris County, at bridge on Falls Street in northeast Houston.

Drainage area--3.50 mi² (9.07 km²).

Gage--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustments of 1957 and 1959.

Remarks--Urban.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1965 | Sept. 22, 1965 | 41.95 | 236 |
| 1966 | Apr. 14, 1966 | 40.64 | 485 |
| 1967 | Oct. 4, 1966 | 42.46 | 399 |
| 1968 | May 10, 1968 | 42.28 | 445 |
| 1969 | Jan. 16, 1969 | 40.97 | 380 |
| 1970 | May 15, 1970 | 42.24 | 377 |
| 1971 | Oct. 23, 1970 | 49.50 | 666 |
| 1972 | Mar. 20, 1972 | 45.51 | 660 |

SAN JACINTO RIVER BASIN

08075770 Hunting Bayou at U.S. Highway 90-A
at Houston, Texas. (12)

Location.--Lat 29°47'43", long 95°16'21", Harris County, on right bank
100 ft (30 m) downstream from bridge on U.S. Highway 90-A, in north-
east section of Houston, and 9.2 miles (14.8 km) upstream from mouth.

Drainage area.--14.4 mi² (37.3 km²).

Gage.--Water-stage recorder. Datum of gage is mean sea level, datum
of 1929, adjustment of 1959.

Topographic characteristics.--Length of main stream, 7.1 miles (11.4 km);
slope index, 1.1 ft/mi (0.2 m/km). (Map scale, 1:24,000)

Remarks.--Recording rain gage located at station.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-----------------------|-------------------------------------|
| 1964 | Apr. 17, 1964 | a24.39 | 166 |
| 1965 | Dec. 10, 1964 | 26.60 | 355 |
| 1966 | Apr. 14, 1966 | 31.43 | 1,150 |
| 1967 | Oct. 5, 1966 | 30.44 | 920 |
| 1968 | May 10, 1968 | 32.66 | 1,460 |
| 1969 | Feb. 21, 1969 | 31.03 | 1,050 |
| 1970 | May 15, 1970 | 30.20 | 880 |
| 1971 | Oct. 23, 1970 | 36.88 | 2,260 |
| 1972 | Mar. 20, 1972 | 37.05 | 3,130 |

a Maximum for period April to September 1964.

SAN JACINTO RIVER BASIN

08075780 Greens Bayou at Cutten Road near Houston, Tex. (12)

Location.--Lat 29°56'56", long 95°31'10", Harris County, at bridge on Cutten Road and about 16.5 miles (26.5 km) northwest of Houston.

Drainage area.--8.73 mi² (22.61 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustments of 1957 and 1959.

Remarks.--Urbanizing.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1965 | Feb. 16, 1965 | 115.27 | 151 |
| 1966 | Apr. 14, 1966 | 117.63 | 514 |
| 1967 | Sept. 21, 1967 | 118.30 | 468 |
| 1968 | May 12, 1968 | 117.15 | 390 |
| 1969 | Feb. 21, 1969 | 118.04 | 508 |
| 1970 | May 30, 1970 | 117.13 | 268 |
| 1971 | Oct. 23, 1970 | 117.38 | 318 |
| 1972 | May 12, 1972 | 116.06 | 190 |

SAN JACINTO RIVER BASIN

08076200 Halls Bayou at Deertrail Street, Houston, Tex. (12)

Location--Lat 29°54'07", long 95°25'21", Harris County, at bridge on Deertrail Street, 0.6 mile (1.0 km) west of U.S. Highway 75, and about 11 miles (18 km) northwest of Houston.

Drainage area--6.31 mi² (16.34 km²).

Gage--Recording. Datum of gage is mean sea level, datum of 1929, supplementary adjustment of 1961.

Remarks--Urbanizing.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1965 | Sept. 22, 1965 | 81.33 | 130 |
| 1966 | Apr. 14, 1966 | 83.52 | 614 |
| 1967 | Sept. 21, 1967 | 85.22 | 710 |
| 1968 | May 10, 1968 | 82.65 | 318 |
| 1969 | Feb. 21, 1969 | 84.73 | 596 |
| 1970 | May 15, 1970 | 83.94 | 618 |
| 1971 | Oct. 23, 1970 | 85.14 | 451 |
| 1972 | Mar. 20, 1972 | 85.83 | 1,180 |

SAN JACINTO RIVER BASIN

08076500 Halls Bayou at Houston, Tex. (12)

Location.--Lat 29°51'42", long 95°20'05", Harris County, on right bank at downstream side of bridge on Jensen Drive in northeast section of Houston and 11 miles (18 km) upstream from mouth.

Drainage area.--24.7 mi² (64.0 km²).

Gage.--Recording. Datum of gage is 0.66 ft (0.20 m) below mean sea level, datum of 1929, adjustment of 1957.

Topographic characteristics.--Length of main stream, 19.0 miles (30.6 km); slope index, 4.41 ft/mi (0.84 m/km). (Map scale, 1:24,000)

Remarks.--Channel was rectified in June 1956.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1953 | May 18, 1953 | 59.05 | 2,410 |
| 1954 | July 30, 1954 | 60.65 | 2,020 |
| 1955 | Feb. 6, 1955 | 56.62 | 1,530 |
| 1956 | Jan. 22, 1956 | 51.53 | 357 |
| 1957 | Apr. 29, 1957 | 52.51 | 620 |
| 1958 | Oct. 15, 1957 | 57.09 | 1,280 |
| 1959 | May 23, 1959 | 58.10 | 1,980 |
| 1960 | June 26, 1960 | 58.79 | 2,230 |
| 1961 | Sept. 12, 1961 | 60.50 | 3,400 |
| 1962 | Nov. 13, 1961 | 58.28 | 2,540 |
| 1963 | Nov. 27, 1962 | 57.02 | 1,870 |
| 1964 | May 31, 1964 | 55.27 | 1,470 |
| 1965 | Sept. 22, 1965 | 55.02 | 1,250 |
| 1966 | Apr. 14, 1966 | 58.93 | 2,640 |
| 1967 | Sept. 21, 1967 | 57.65 | 1,110 |
| 1968 | May 10, 1968 | 58.26 | 2,340 |
| 1969 | Feb. 21, 1969 | 58.93 | 2,560 |
| 1970 | May 15, 1970 | 58.33 | 2,340 |
| 1971 | Oct. 23, 1970 | 58.22 | 2,300 |
| 1972 | Mar. 21, 1972 | 60.70 | 3,780 |

CLEAR CREEK BASIN

08077100 Clear Creek tributary at Hall Road,
Houston, Tex. (12)

Location.--Lat 29°36'09", long 95°16'41", Harris County, at bridge on
Hall Road in south Houston.

Drainage area.--1.33 mi² (3.44 km²). Prior to Oct. 1, 1966, 1.27 mi²
(3.29 km²).

Gage.--Recording. Datum of gage is mean sea level, datum of 1929,
supplementary adjustment of 1957 and 1959.

Remarks.--Urbanizing.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Elevation (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-----------------------|-------------------------------------|
| 1965 | Dec. 10, 1964 | a42.73 | b100 |
| 1966 | Feb. 9, 1966 | c44.91 | b150 |
| 1967 | Apr. 13, 1967 | d41.38 | 132 |
| 1968 | May 10, 1968 | e44.91 | 390 |
| 1969 | May 3, 1969 | a43.03 | 294 |
| 1970 | May 21, 1970 | a44.74 | b450 |
| 1971 | Sept. 30, 1971 | 42.87 | 291 |
| 1972 | Apr. 27, 1972 | a44.65 | 249 |

- a Occurred at different time than peak discharge, backwater from Clear Creek.
- b Estimated.
- c Occurred May 21, 1966, backwater from Clear Creek.
- d Occurred Oct. 4, 1966, backwater from vegetation in channel.
- e Occurred May 11, 1968, backwater from Clear Creek.

CLEAR CREEK BASIN

08077550 Cowart Creek near Friendswood, Tex. (12)

Location.--Lat 29°30'46", long 95°13'21", Brazoria County, at downstream side of bridge on county road and 1.7 miles (2.7 km) southwest of Friendswood.

Drainage area.--18.0 mi² (46.6 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 8.05 miles (12.95 km); slope index, 4.67 ft/mi (0.88 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | a<11.70 | <130 |
| 1966 | Apr. 14, 1966 | 18.74 | 948 |
| 1967 | Feb. 6, 1967 | 14.27 | 307 |
| 1968 | June 21, 1968 | 21.02 | 1,280 |
| 1969 | Oct. 9, 1968 | 19.10 | 938 |
| 1970 | May 21, 1970 | 19.92 | 1,090 |
| 1971 | Nov. 30, 1970 | 16.06 | 491 |
| 1972 | May 11, 1972 | 21.52 | 1,380 |

< Less than amount shown.

a Maximum for period Aug. 25 to Sept. 30, 1965.

CLEAR CREEK BASIN

08077600 Clear Creek near Friendswood, Tex. (12)

Location.--Lat 29°31'02", long 95°10'42", Galveston County, at bridge on Farm Road 528 and 1.5 miles (2.4 km) southeast of Friendswood.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Remarks.--Records are stage only.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 14, 1966 | 13.38 | - |
| 1967 | - | 10.74 | - |
| 1968 | June 24, 1968 | 15.93 | - |
| 1969 | May 17, 1969 | 10.92 | - |
| 1970 | - | <10.74 | - |
| 1971 | - | <10.74 | - |
| 1972 | May 13, 1972 | 12.06 | - |

< Less than amount shown.

HIGHLAND BAYOU BASIN

08077700 Highland Bayou at Hitchcock, Tex. (12)

Location.--Lat 29°21'12", long 95°01'49", Galveston County, at downstream side of bridge on Farm Road 2004, 0.6 mile (1.0 km) west of Hitchcock, and 7 miles (11 km) from mouth and Jones Bay.

Drainage area.--15.6 mi² (40.4 km²).

Gage.--Recording. Datum of gage is mean sea level.

Remarks.--Stage record only.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|------------------------|-------------------------|-------------------------------------|
| 1963 | Sept. 25, 1963 | 2.54 | - |
| 1964 | Feb. 5, 1964 | 3.33 | - |
| 1965 | Dec. 10, 1964 | 7.70 | - |
| 1966 | Dec. 18, 1965 | 5.49 | - |
| 1967 | Nov. 11 or 12, 1966 | 4.54 | - |
| 1968 | June 21, 1968 | 8.15 | - |
| 1969 | Apr. 12, 1969 | 5.88 | - |
| 1970 | Mar. 7, 1970 | 4.60 | - |
| 1971 | Sept. 10, 1971 | 6.69 | - |
| 1972 | May 12, 1972 | 6.96 | - |

HIGHLAND BAYOU BASIN

08077750 Highland Bayou tributary near Texas City, Tex. (12)

Location.--Lat 29°20'31", long 94°57'03", Galveston County, at Texas City Terminal Railway Company tracks, 600 ft (183 m) downstream from mouth, and 3 miles (5 km) southwest of Texas City.

Drainage area.--1.97 mi² (5.10 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Remarks.--Records are of stage only.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | May 5, 1966 | 3.23 | - |
| 1967 | Sept. 21, 1967 | 4.10 | - |
| 1968 | June 29, 1968 | 3.74 | - |
| 1969 | Feb. 14, 1969 | 4.29 | - |
| 1970 | Dec. 6, 1969 | 3.79 | - |
| 1971 | Sept. 10, 1971 | 5.08 | - |
| 1972 | Nov. 23, 1971 | 3.60 | - |

BRAZOS RIVER BASIN

08079570 Barnum Springs Draw near Post, Tex. (05)

Location.--Lat 33°16'54", long 101°23'30", Garza County, at culvert on Farm Road 122 and 6.4 miles (10.3 km) north of Post.

Drainage area.--4.99 mi² (12.92 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 6.8 miles (10.9 km); slope index, 63.1 ft/mi (12.0 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 10, 1966 | 3.55 | 58 |
| 1967 | Mar. 23, 1967 | 3.65 | 63 |
| 1968 | May 31, 1968 | 8.40 | 435 |
| 1969 | May 6, 1969 | 4.25 | 97 |
| 1970 | May 31, 1970 | 4.57 | 117 |
| 1971 | Aug. 23, 1971 | 5.39 | 175 |
| 1972 | Sept. 8, 1972 | 4.87 | 138 |

BRAZOS RIVER BASIN

08079580 Rattlesnake Creek near Post, Tex. (05)

Location--Lat 33°13'36", long 101°21'36", Garza County, at culvert on Farm Road 651 and 2.7 miles (4.3 km) north of Post.

Drainage area--2.75 mi² (7.12 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 4.55 miles (7.32 km); slope index, 67.2 ft/mi (12.7 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Aug. 31, 1966 | 4.58 | 196 |
| 1967 | June 27, 1967 | 5.88 | 295 |
| 1968 | June 8, 1968 | 3.62 | 106 |
| 1969 | May 6, 1969 | 3.09 | 70 |
| 1970 | May 31, 1970 | 3.53 | 60 |
| 1971 | Aug. 23, 1971 | 13.45 | 1,910 |
| 1972 | Sept. 15, 1972 | 5.47 | 252 |

BRAZOS RIVER BASIN

08080510 Guest-Flowers Draw near Aspermont, Tex. (08)

Location.--Lat 33°07'25", long 100°08'15", Stonewall County, at culvert on U.S. Highway 380, 0.2 mile (0.3 km) upstream from Tonk Creek, and 5.3 miles (8.5 km) east of Aspermont.

Drainage area.--2.52 mi² (6.53 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.9 miles (6.3 km); slope index, 23.6 ft/mi (4.5 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | June 21, 1965 | a17.85 | 155 |
| 1966 | Aug. 31, 1966 | 17.25 | 80 |
| 1967 | June 9, 1967 | 19.57 | 410 |
| 1968 | May 30, 1968 | <16.75 | bc5 |
| 1969 | Sept. 22, 1969 | 18.37 | 230 |
| 1970 | Mar. 6, 1970 | 16.87 | b38 |
| 1971 | Aug. 25, 1971 | 17.25 | 80 |
| 1972 | Oct. 16, 1971 | 18.05 | 180 |

< Less than amount shown.

a Maximum for period June 4 to Sept. 30, 1965.

b Revised.

c Estimated.

BRAZOS RIVER BASIN

08080750 Callahan Draw near Lockney, Tex. (05)

Location.--Lat 33°59'48", long 101°32'54", Floyd County, at culvert on Farm Road 784, 7 miles (11 km) upstream from Running Water Draw, and 10.5 miles (16.9 km) northwest of Lockney.

Drainage area.--37.5 mi² (97.1 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 24, 1966 | 3.01 | 106 |
| 1967 | May 31, 1967 | 3.69 | 185 |
| 1968 | May 9, 1968 | 2.95 | 100 |
| 1969 | May 6, 1969 | 3.55 | 167 |
| 1970 | - | <2.02 | <5.0 |
| 1971 | - | <2.02 | <5.0 |
| 1972 | Aug. 28, 1972 | 4.52 | 295 |

< Less than amount shown.

BRAZOS RIVER BASIN

08080918 Red Mud Creek near Spur, Tex. (25)

Location.--Lat 33°19'24", long 100°55'18", Dickens County, at culvert on Farm Road 1081 and 11 miles (18 km) southwest of Spur.

Drainage area.--65.1 mi² (168.6 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 23 miles (37 km); slope index, 16.1 ft/mi (3.0 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Aug. 24, 1966 | 15.14 | 4,340 |
| 1967 | July 4, 1967 | 11.70 | 1,850 |
| 1968 | June 16, 1968 | 14.13 | 2,900 |
| 1969 | May 16, 1969 | 10.44 | 1,520 |
| 1970 | Oct. 27, 1969 | 8.66 | 1,100 |
| 1971 | Sept. 23, 1971 | 10.12 | 1,450 |
| 1972 | May 6, 1972 | 8.63 | 1,090 |

BRAZOS RIVER BASIN

08082900 North Elm Creek near Throckmorton, Tex. (03)

Location.--Lat 33°10'50", long 99°22'05", Throckmorton County, at cul-
vert on State Highway 24 and 11.3 miles (18.2 km) west of Throckmorton.

Drainage area.--3.58 mi² (9.27 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.0 miles (4.8 km);
slope index, 36.4 ft/mi (6.9 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | - | a0 |
| 1966 | Apr. 30, 1966 | 26.28 | 1,350 |
| 1967 | - | <22.84 | <160 |
| 1968 | May 12, 1968 | 23.21 | 264 |
| 1969 | May 5, 1969 | 24.50 | 650 |
| 1970 | - | <23.07 | <200 |
| 1971 | Aug. 15, 1971 | 23.77 | 398 |
| 1972 | May 12, 1972 | 24.36 | 600 |

< Less than amount shown.

a No flow for period June 3 to Sept. 30, 1965.

BRAZOS RIVER BASIN

08085300 Humphries Draw near Haskell, Tex. (08)

Location.--Lat 33°10'40", long 99°34'30", Haskell County, at culvert on State Highway 24 and 9.3 miles (15.0 km) east of Haskell.

Drainage area.--3.53 mi² (9.14 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.27 miles (5.26 km); slope index, 21.8 ft/mi (4.1 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 19, 1965 | a14.38 | (†) |
| 1966 | Aug. 25, 1966 | 16.31 | 820 |
| 1967 | July 20, 1967 | 17.29 | 1,150 |
| 1968 | Jan. 21, 1968 | 17.65 | 1,250 |
| 1969 | May 7, 1969 | 18.80 | 1,650 |
| 1970 | Mar. 7, 1970 | 16.93 | 1,000 |
| 1971 | Aug. 15, 1971 | 19.41 | 1,840 |
| 1972 | Sept. 21, 1972 | 15.49 | (†) |

† Discharge not determined.

a Maximum for period June 3 to Sept. 30, 1965.

BRAZOS RIVER BASIN

08086260 Pecan Creek near Eolian, Tex. (23)

Location.--Lat 32°35'01", long 99°01'57", Stephens County, at county road crossing 1.4 miles (2.3 km) east of Farm Road 1853, 3.3 miles (5.3 km) upstream from Battle Creek, and 5.8 miles (9.3 km) south of Eolian.

Drainage area.--25.4 mi² (65.8 km²).

Gage.--Recording. Altitude of gage is 1,274 ft (388 m), from AMS topographic map.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | July 19, 1967 | 5.85 | 335 |
| 1968 | Apr. 18, 1968 | 11.26 | 580 |
| 1969 | May 6, 1969 | 12.78 | 648 |
| 1970 | Dec. 28, 1969 | 5.49 | 320 |
| 1971 | May 29, 1971 | 7.25 | 400 |
| 1972 | May 7, 1972 | 6.06 | 348 |

BRAZOS RIVER BASIN

08088100 Salt Creek at Olney, Tex. (03)

Location.--Lat 33°22'13", long 98°44'40", Young County, on right bank
21 ft (6 m) downstream from bridge on State Highway 199 and 0.5 mile
(0.8 km) east of Olney.

Drainage area.--9.6 mi² (24.9 km²).

Gage.--Recording. Datum of gage is 1,164.03 ft (354.80 m) above mean
sea level, datum of 1929.

Historical data.--Maximum stage since at least 1908, 16.7 ft (5.1 m) in
June 1915, from information by local residents.

Remarks.--Rain gage at site.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1958 | Sept. 16, 1958 | 8.18 | 345 |
| 1959 | June 22, 1959 | 7.30 | 264 |
| 1960 | Oct. 3, 1959 | 10.16 | 1,040 |
| 1961 | Sept. 12, 1961 | 5.95 | 162 |
| 1962 | Nov. 22, 1961 | 9.66 | 485 |
| 1963 | Nov. 26, 1962 | 9.32 | 360 |
| 1964 | May 29, 1964 | 10.05 | 498 |
| 1965 | May 10, 1965 | 6.62 | 148 |
| 1966 | Apr. 29, 1966 | 12.14 | 11,500 |
| 1967 | Sept. 18, 1967 | 9.74 | 625 |
| 1968 | Jan. 21, 1968 | 8.83 | 273 |
| 1969 | May 5, 1969 | 11.67 | 2,640 |
| 1970 | Apr. 30, 1970 | 9.55 | 370 |
| 1971 | Aug. 26, 1971 | 9.41 | 362 |
| 1972 | May 12, 1972 | 12.25 | 12,500 |

BRAZOS RIVER BASIN

08088300 Briar Creek near Graham, Tex. (03)

Location.--Lat 33°12'40", long 98°37'05", Young County, on downstream side of bridge on Farm Road 1769, 2.5 miles (4.0 km) upstream from mouth, and 7 miles (11 km) northwest of Graham.

Drainage area.--19.7 mi² (51.0 km²).

Gage.--Recording.

Historical data.--Maximum stage since at least 1900, 15.2 ft (4.6 m) in September 1955; flood in May 1957 reached a stage of 15.0 ft (4.6 m), from information by local residents.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1959 | June 23, 1959 | 4.08 | 207 |
| 1960 | Oct. 3, 1959 | 9.02 | 649 |
| 1961 | Oct. 18, 1960 | 8.42 | 555 |
| 1962 | June 10, 1962 | 10.50 | 750 |
| 1963 | Apr. 27, 1963 | 5.10 | 268 |
| 1964 | May 30, 1964 | 6.47 | 390 |
| 1965 | Nov. 19, 1964 | 7.14 | 444 |
| 1966 | Apr. 23, 1966 | 11.42 | 723 |
| 1967 | July 19, 1967 | 8.62 | 516 |
| 1968 | Mar. 13, 1968 | 4.50 | 220 |
| 1969 | Sept. 23, 1969 | 8.22 | 543 |
| 1970 | Apr. 30, 1970 | 12.30 | 2,720 |
| 1971 | Aug. 24, 1971 | 11.50 | 1,840 |
| 1972 | May 12, 1972 | 12.20 | 2,420 |

BRAZOS RIVER BASIN

08089100 Elm Creek tributary near Graford, Tex. (02)

Location.--Lat 32°54'35", long 98°17'35", Palo Pinto County, at culvert on Farm Road 4, 0.2 mile (0.3 km) upstream from Elm Creek, and 3.2 miles (5.1 km) southwest of Graford.

Drainage area.--1.07 mi² (2.77 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.9 miles (3.1 km); slope index, 68.5 ft/mi (13.0 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | - | a0 |
| 1966 | Apr. 30, 1966 | 12.71 | 40 |
| 1967 | May 20, 1967 | 12.21 | 33 |
| 1968 | Mar. 20, 1968 | 11.15 | 16 |
| 1969 | Mar. 23, 1969 | 11.69 | 25 |
| 1970 | Dec. 29, 1969 | 11.41 | 21 |
| 1971 | Oct. 16, 1970 | 10.21 | 5.0 |
| 1972 | June 16, 1972 | 11.47 | 22 |

a No flow for period June 22 to Sept. 30, 1965.

BRAZOS RIVER BASIN

08090850 Cidwell Branch near Granbury, Tex. (02)

Location.--Lat 32°35'41", long 97°46'24", Hood County, at culvert on State Highway 51 and 10.5 miles (16.9 km) north of Granbury.

Drainage area.--3.37 mi² (8.73 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 5.65 miles (9.09 km); slope index, 49 ft/mi (9 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 29, 1966 | 16.65 | 540 |
| 1967 | - | <11.16 | <37 |
| 1968 | May 10, 1968 | 14.44 | 290 |
| 1969 | May 6, 1969 | 11.36 | 48 |
| 1970 | Oct. 11, 1969 | 13.43 | 198 |
| 1971 | July 29, 1971 | 13.80 | 230 |
| 1972 | Oct. 19, 1971 | 12.52 | 123 |

< Less than amount shown.

BRAZOS RIVER BASIN

08091200 Morris Branch near Bluff Dale, Tex. (02)

Location.--Lat 32°21'25", long 98°00'00", Erath County, at culvert on
on U.S. Highway 377 and 1.2 miles (1.9 km) east of Bluff Dale.

Drainage area.--0.06 mi² (0.16 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.23 miles (0.37 km);
slope index, 382 ft/mi (72 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | a<11.44 | <25 |
| 1966 | Apr. 29, 1966 | 13.71 | 107 |
| 1967 | May 11, 1967 | 11.76 | 35 |
| 1968 | Aug. 14, 1968 | 12.54 | 61 |
| 1969 | Apr. 12, 1969 | 10.63 | 7.4 |
| 1970 | Oct. 11, 1969 | 11.99 | 45 |
| 1971 | July 29, 1971 | 13.55 | 104 |
| 1972 | Oct. 19, 1971 | 12.73 | 68 |

< Less than amount shown.

a Maximum for period June 10 to Sept. 30, 1965.

BRAZOS RIVER BASIN

08091700 Panter Branch near Tolar, Tex. (02)

Location.--Lat 32°20'59", long 97°51'25", Hood County, at culvert on State Highway 51, 2.5 miles (4.0 km) upstream from mouth, and 4.6 miles (7.4 km) southeast of Tolar.

Drainage area.--7.82 mi² (20.25 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 5.0 miles (8.0 km); slope index, 49 ft/mi (9 m/km). (Map scale, 1:24,000).

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 29, 1966 | 14.49 | 880 |
| 1967 | May 20, 1967 | 16.9 | 1,650 |
| 1968 | May 9, 1968 | 21.70 | a3,650 |
| 1969 | May 7, 1969 | 13.50 | 610 |
| 1970 | Oct. 11, 1969 | 13.61 | 640 |
| 1971 | July 29, 1971 | 14.53 | 890 |
| 1972 | Sept. 16, 1972 | 21.88 | 3,750 |

a Revised.

BRAZOS RIVER BASIN

08093200 Bond Branch near Hillsboro, Tex. (09)

Location.--Lat 32°02'20", long 97°06'30", Hill County, at culvert on U.S. Highway 77 and 2.3 miles (3.7 km) northeast of Hillsboro.

Drainage area.--0.36 mi² (0.93 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.85 mile (1.37 km); slope index, 70.6 ft/mi (13.4 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | June 24, 1965 | 14.19 | 305 |
| 1966 | Apr. 25, 1966 | 14.00 | 285 |
| 1967 | May 1, 1967 | 11.0 | 34 |
| 1968 | May 9, 1968 | 15.91 | 505 |
| 1969 | May 7, 1969 | 13.09 | 197 |
| 1970 | Mar. 3, 1970 | 11.18 | 44 |
| 1971 | Apr. 17, 1971 | 12.83 | 168 |
| 1972 | Oct. 19, 1971 | 14.43 | 328 |

BRAZOS RIVER BASIN

08093400 Cobb Creek near Abbott, Tex. (09)

Location.--Lat 31°55'11", long 97°05'57", Hill County, at downstream side of bridge on service road on downstream side of Interstate Highway 35, 1.5 miles (2.4 km) downstream from Missouri, Kansas, and Texas Railroad Co. bridge, 2.8 miles (4.5 km) northwest of Abbott, and 9 miles (14 km) upstream from mouth.

Drainage area.--11.7 mi² (30.3 km²).

Gage.--Recording. Datum of gage is 575.00 ft (175.26 m) above mean sea level, datum of 1929.

Topographic characteristics.--Length of main stream, 10.7 miles (17.2 km); slope index, 20.7 ft/mi (3.9 m/km). (Map scale, 1:24,000)

Remarks.--Maximum stage since at least 1932, 11.1 ft (3.4 m), date unknown, from information by Texas Highway Department.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|--------------|-------------------------|-------------------------------------|
| 1967 | May 31, 1967 | 7.85 | 785 |
| 1968 | May 9, 1968 | 10.50 | 2,720 |
| 1969 | May 7, 1969 | 7.77 | 880 |
| 1970 | Mar. 3, 1970 | 7.45 | 760 |
| 1971 | May 29, 1971 | 9.65 | 1,900 |
| 1972 | Dec. 9, 1971 | 7.49 | 780 |

BRAZOS RIVER BASIN

08094000 Green Creek subwatershed No. 1 near Dublin, Tex. (02)

Location.--Lat 32°09'57", long 98°20'28", Erath County, near center of dam on main headwater channel of Green Creek, 0.9 mile (1.4 km) downstream from county road, 1.3 miles (2.1 km) east of Farm Road 219, and 5.5 miles (8.8 km) north of Dublin.

Drainage area.--3.34 mi² (8.65 km²).

Gage.--Recording. Datum of gage is 1,408.00 ft (429.16 m) above mean level, datum of 1929 (levels by U.S. Soil Conservation Service).

Remarks.--Peaks are based on maximum inflow (average for 5- or 15-minute intervals), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. No adjustment made for reservoir losses. One recording rain gage is located in the watershed above the station. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1955 | May 18, 1955 | 3,630 |
| 1956 | May 1, 1956 | 11,500 |
| 1957 | Apr. 26, 1957 | 887 |
| 1958 | July 22, 1958 | 748 |
| 1959 | June 26, 1959 | 498 |
| 1960 | Oct. 3, 1959 | 1,540 |
| 1961 | July 9, 1961 | 261 |
| 1962 | Sept. 7, 1962 | 516 |
| 1963 | Apr. 28, 1963 | 621 |
| 1964 | Sept. 21, 1964 | 2,090 |
| 1965 | May 15, 1965 | 365 |
| 1966 | Apr. 30, 1966 | 645 |
| 1967 | Sept. 14, 1967 | 102 |
| 1968 | May 12, 1968 | 3,540 |
| 1969 | July 27, 1969 | 604 |
| 1970 | Mar. 13, 1970 | 248 |
| 1971 | May 29, 1971 | 4,050 |
| 1972 | Oct. 19, 1971 | 960 |

BRAZOS RIVER BASIN

08095220 South Bosque River near McGregor, Tex. (09)

Location.--Lat 31°23'22", long 97°22'54", McLennan County, on downstream side of bridge on State Highway 317 and 3.8 miles (6.1 km) south of McGregor.

Drainage area.--15.9 mi² (41.2 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 6.14 miles (9.88 km); slope index, 28.4 ft/mi (5.4 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | Apr. 22, 1967 | 2.73 | 178 |
| 1968 | May 10, 1968 | 9.56 | 3,900 |
| 1969 | Apr. 12, 1969 | 6.05 | 1,430 |
| 1970 | Mar. 6, 1970 | 5.69 | 1,240 |
| 1971 | July 25, 1971 | 9.18 | 3,580 |
| 1972 | Oct. 20, 1971 | 4.01 | 532 |

BRAZOS RIVER BASIN

08095250 Willow Branch at McGregor, Tex. (09)

Location.--Lat 31°26'25", long 97°25'15", McLennan County, at culvert on U.S. Highway 84 and on west edge of McGregor.

Drainage area.--2.52 mi² (6.53 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.55 miles (5.71 km); slope index, 19.4 ft/mi (3.7 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Sept. 18, 1966 | a5.54 | 367 |
| 1967 | Apr. 22, 1967 | 4.90 | 238 |
| 1968 | July 8, 1968 | 5.39 | 337 |
| 1969 | Apr. 12, 1969 | 5.63 | 385 |
| 1970 | Mar. 16, 1970 | 4.98 | 255 |
| 1971 | July 30, 1971 | 6.59 | 610 |
| 1972 | - | <4.85 | <229 |

< Less than amount shown.

a Maximum for period July to September 1966.

BRAZOS RIVER BASIN

08096550 Box Branch at Robinson, Tex. (09)

Location--Lat 31°29'35", long 97°08'45", McLennan County, at culvert on Loop 340 in Robinson and 4.9 miles (7.9 km) south of Waco.

Drainage area--0.40 mi² (1.04 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 0.80 mile (1.29 km); slope index, 60 ft/mi (11 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | - | a0 |
| 1966 | May 1, 1966 | 12.90 | 460 |
| 1967 | - | <9.78 | <20 |
| 1968 | June 24, 1968 | 10.93 | 150 |
| 1969 | - | <9.78 | <29 |
| 1970 | - | <9.78 | <29 |
| 1971 | July 27, 1971 | 11.14 | 179 |
| 1972 | Nov. 17, 1971 | 10.35 | 82 |

< Less than amount shown.

a No flow for period August to September 1965.

BRAZOS RIVER BASIN

08096800 Cow Bayou subwatershed No. 4
near Bruceville, Tex. (09)

Location.--Lat 31°20'10", long 97°15'50", McLennan County, near center of dam on Foster Branch, 1.0 mile (1.6 km) upstream from South Fork Cow Bayou, and 2.1 miles (3.4 km) west of Bruceville.

Drainage area.--5.25 mi² (13.60 km²).

Gage.--Recording. Datum of gage is 574.46 ft (175.10 m) above mean sea level, datum of 1929 (levels by U.S. Soil Conservation Service).

Remarks.--Peak discharge based on maximum inflow (average for 5- or 15-minute intervals), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. Recording rain gage located at station. Tabulations of significant storm rainfall and runoff are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1957 | May 11, 1957 | 6,900 |
| 1958 | Oct. 14, 1957 | 1,510 |
| 1959 | June 23, 1959 | 1,690 |
| 1960 | Oct. 4, 1959 | 1,400 |
| 1961 | June 8, 1961 | 628 |
| 1962 | June 30, 1962 | 293 |
| 1963 | Oct. 26, 1962 | 19 |
| 1964 | June 16, 1964 | 151 |
| 1965 | May 16, 1965 | 1,780 |
| 1966 | Feb. 9, 1966 | 1,830 |
| 1967 | Sept. 17, 1967 | 36 |
| 1968 | May 10, 1968 | 2,340 |
| 1969 | Mar. 23, 1969 | 481 |
| 1970 | Mar. 16, 1970 | 550 |
| 1971 | Apr. 18, 1971 | 1,680 |
| 1972 | Nov. 17, 1971 | 742 |

BRAZOS RIVER BASIN

08098300 Little Pond Creek at Burlington, Tex. (17)

Location.--Lat 31°01'35", long 96°59'17", Milam County, on left bank 80 ft (24 m) downstream from bridge on U.S. Highway 77, 1.0 mile (1.6 km) north of Burlington, and 2.5 miles (4.0 km) downstream from Keys Creek.

Drainage area.--22.2 mi² (57.5 km²).

Gage.--Water-stage recorder. Datum of gage is 388.51 ft (118.42 m) above mean sea level, datum of 1929.

Historical data.--Maximum stage since at least 1938, 17.5 ft (5.3 m) in 1950, from information by local residents.

Remarks.--Three recording rain gages are located in the watershed. Data from these gages are on file in the U.S. Geological Survey Austin Field Unit office.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1963 | Nov. 27, 1962 | 7.50 | 418 |
| 1964 | Sept. 24, 1964 | 10.09 | 745 |
| 1965 | May 16, 1965 | 15.61 | 5,980 |
| 1966 | Apr. 25, 1966 | 13.02 | 2,550 |
| 1967 | May 1, 1967 | 9.82 | 748 |
| 1968 | May 10, 1968 | a14.60 | 4,250 |
| 1969 | Apr. 12, 1969 | 14.72 | 4,530 |
| 1970 | Mar. 7, 1970 | 11.67 | 1,560 |
| 1971 | May 9, 1971 | 13.06 | 2,600 |
| 1972 | Dec. 9, 1971 | 10.00 | 800 |

a Occurred June 24, 1968.

BRAZOS RIVER BASIN

08099350 Sabana River tributary near De Leon, Tex. (23)

Location.--Lat 32°06'44", long 98°33'58", Comanche County, 13 ft (4 m) upstream from culvert on Farm Road 587 and 1.6 miles (2.6 km) west of De Leon.

Drainage area.--0.52 mi² (1.35 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.02 miles (1.64 km); slope index, 55.8 ft/mi (10.6 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 29, 1966 | a7.56 | 51 |
| 1967 | Sept. 21, 1967 | 7.97 | 68 |
| 1968 | Jan. 20, 1968 | 7.22 | 41 |
| 1969 | Aug. 25, 1969 | 3.92 | 47 |
| 1970 | Mar. 7, 1970 | 3.66 | 36 |
| 1971 | May 27, 1971 | 4.15 | 56 |
| 1972 | Apr. 27, 1972 | 3.69 | 38 |

a Maximum for period February to September 1966.

BRAZOS RIVER BASIN

08100100 Eidson Creek near Hamilton, Tex. (09)

Location--Lat 31°46'10", long 98°07'25", Hamilton County, at culvert on U.S. Highway 281 and 4.6 miles (7.4 km) north of Hamilton.

Drainage area--2.91 mi² (7.54 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 4.03 miles (6.48 km); slope index, 55 ft/mi (10 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | - | - | a ⁰ |
| 1966 | Oct. 18, 1965 | 10.06 | 150 |
| 1967 | June 12, 1967 | 10.00 | 138 |
| 1968 | May 27, 1968 | 12.63 | 900 |
| 1969 | Aug. 4, 1969 | 10.08 | 155 |
| 1970 | May 31, 1970 | 10.51 | 259 |
| 1971 | Sept. 23, 1971 | 10.18 | 180 |
| 1972 | Dec. 9, 1971 | 10.67 | 298 |

a No flow for period August to September 1965.

BRAZOS RIVER BASIN

08100400 Bermuda Branch near Gatesville, Tex. (09)

Location.--Lat 31°32'26", long 97°47'53", Coryell County, at culvert on State Highway 36 and 8 miles (13 km) northwest of Gatesville.

Drainage area.--0.50 mi² (1.30 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.17 miles (1.88 km); slope index, 168 ft/mi (32 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | - | - | a0 |
| 1967 | - | <5.63 | <46 |
| 1968 | Jan. 21, 1968 | 5.6 | 44 |
| 1969 | Feb. 21, 1969 | 5.79 | 60 |
| 1970 | Nov. 1, 1969 | 5.74 | 56 |
| 1971 | July 25, 1971 | 6.79 | 213 |
| 1972 | Dec. 10, 1971 | 5.79 | 57 |

< Less than amount shown.

a No flow for period July to September 1966.

BRAZOS RIVER BASIN

08100800 Hoffman Branch near Hamilton, Tex. (09)

Location.--Lat 31°35'01", long 98°11'45", Hamilton County, at culvert on Farm Road 2414 and 9.3 miles (15.0 km) southwest of Hamilton.

Drainage area.--5.56 mi² (14.4 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 5.50 miles (8.85 km); slope index, 49 ft/mi (9 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Sept. 18, 1966 | 11.71 | a50 |
| 1967 | July 1, 1967 | 5.59 | 17 |
| 1968 | Jan. 21, 1968 | 9.19 | 620 |
| 1969 | May 7, 1969 | 8.04 | 510 |
| 1970 | Sept. 2, 1970 | 12.17 | 1,570 |
| 1971 | July 28, 1971 | 12.75 | a1,400 |
| 1972 | Oct. 19, 1971 | 13.55 | 2,050 |

a Discharge estimated, culvert was partially plugged with debris.

BRAZOS RIVER BASIN

08102900 School Branch near Lampasas, Tex. (23)

Location--Lat 31°13'48", long 98°09'25", Lampasas County, at culvert on Farm Road 1690 and 11.5 miles (18.5 km) north of Lampasas.

Drainage area--0.90 mi² (2.33 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 0.95 mile (1.53 km); slope index, 58 ft/mi (11 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 12, 1966 | a5.36 | 83 |
| 1967 | May 1, 1967 | 4.88 | 53 |
| 1968 | May 25, 1968 | 5.40 | 88 |
| 1969 | May 7, 1969 | 4.95 | 55 |
| 1970 | - | <4.76 | <50 |
| 1971 | - | <4.76 | <50 |
| 1972 | - | <4.76 | <50 |

< Less than amount shown.

a Maximum for period July to September 1966.

BRAZOS RIVER BASIN

08103450 Fleece Branch near Lampasas, Tex. (23)

Location.--Lat 31°05'46", long 98°12'30", Lampasas County, at culvert on U.S. Highways 183 and 190, 0.7 mile (1.1 km) upstream from Burleson Creek, and 2.8 miles (4.5 km) northwest of Lampasas.

Drainage area.--1.08 mi² (2.80 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.00 miles (3.22 km); slope index, 100 ft/mi (19 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | - | a0 |
| 1966 | June 19, 1966 | 15.18 | 980 |
| 1967 | - | <9.81 | <60 |
| 1968 | July 8, 1968 | 10.17 | 101 |
| 1969 | Apr. 12, 1969 | 12.33 | 425 |
| 1970 | Mar. 6, 1970 | 10.57 | 124 |
| 1971 | May 9, 1971 | 12.01 | b298 |
| 1972 | May 7, 1972 | 10.29 | 116 |

< Less than amount shown.

a No flow for period August to September 1965.

b Discharge estimated, culvert was partially plugged with debris.

BRAZOS RIVER BASIN

08104850 South Fork San Gabriel River near Bertram, Tex. (14)

Location.--Lat 30°43'14", long 98°06'15", Burnet County, on downstream side of bridge on Farm Road 243 and 3.4 miles (5.5 km) southwest of Bertram.

Drainage area.--8.84 mi² (22.9 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 5.8 miles (9.3 km); slope index, 40 ft/mi (8 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | May 1, 1967 | 3.93 | (†) |
| 1968 | May 17, 1968 | 12.14 | (†) |
| 1969 | Apr. 12, 1969 | 6.68 | (†) |
| 1970 | Mar. 6, 1970 | 6.92 | (†) |
| 1971 | July 30, 1971 | 6.28 | (†) |
| 1972 | Oct. 19, 1971 | 4.75 | (†) |

† Discharge not determined.

BRAZOS RIVER BASIN

08105900 Avery Branch near Taylor, Tex. (14)

Location.--Lat 30°29'11", long 97°27'27", Williamson County, at culvert on Farm Road 973 and 6.4 miles (10.3 km) southwest of Taylor.

Drainage area.--3.42 mi² (8.86 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 4.25 miles (6.84 km); slope index, 12.9 ft/mi (2.4 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Sept. 27, 1966 | a6.20 | 280 |
| 1967 | May 2, 1967 | 7.21 | 595 |
| 1968 | Nov. 10, 1967 | 7.03 | 535 |
| 1969 | Apr. 12, 1969 | 7.55 | 710 |
| 1970 | May 15, 1970 | 7.55 | 710 |
| 1971 | Oct. 23, 1970 | 6.46 | 352 |
| 1972 | May 1, 1972 | 10.11 | 2,950 |

a Maximum for period July to September 1966.

BRAZOS RIVER BASIN

08108800 Little Branch near Bryan, Tex. (17)

Location.--Lat 30°45'14", long 96°28'01", Robertson County, at culvert on U.S. Highway 190 and State Highway 6 and 8.3 miles (13.4 km) northwest of Bryan.

Drainage area.--0.14 mi² (0.36 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.43 mile (0.69 km); slope index, 108 ft/mi (20 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | - | a0 |
| 1966 | May 1, 1966 | 13.33 | 99 |
| 1967 | Oct. 14, 1966 | 13.03 | 87 |
| 1968 | July 9, 1968 | 13.08 | 88 |
| 1969 | Apr. 13, 1969 | 12.36 | 60 |
| 1970 | May 24, 1970 | 11.73 | 39 |
| 1971 | - | 12.01 | 48 |
| 1972 | - | <9.79 | <1.0 |

< Less than amount shown.

a No flow for period August to September 1965.

BRAZOS RIVER BASIN

08110350 Plummers Creek at Mexia, Tex. (09)

Location.--Lat 31°40', long 96°30', Limestone County, at culvert on State Highway 14 and at southwest city limits of Mexia.

Drainage area,--4.42 mi² (11.4 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 5.2 miles (8.4 km); slope index, 14.8 ft/mi (2.8 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | - | a ⁰ |
| 1966 | Apr. 18, 1966 | 15.34 | 2,000 |
| 1967 | Sept. 7, 1967 | 11.65 | 570 |
| 1968 | May 10, 1968 | 14.92 | 1,830 |
| 1969 | Apr. 12, 1969 | 11.95 | 680 |
| 1970 | Dec. 6, 1970 | 12.49 | 870 |
| 1971 | Oct. 12, 1970 | 14.01 | 1,450 |
| 1972 | Oct. 11, 1971 | 13.18 | 1,130 |

a No flow for period August to September 1965.

BRAZOS RIVER BASIN

08111100 Winkleman Creek near Brenham, Tex. (17)

Location.--Lat 30°15'19", long 96°15'44", Washington County, at culvert on State Highway 90 and 10.7 miles (17.2 km) northeast of Brenham.

Drainage area.--0.75 mi² (1.94 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.28 miles (2.06 km); slope index, 37.5 ft/mi (7.1 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | - | a0 |
| 1966 | Feb. 27, 1966 | 10.53 | 95 |
| 1967 | - | <9.81 | <30 |
| 1968 | July 9, 1968 | 13.27 | 500 |
| 1969 | Apr. 12, 1969 | 12.75 | 390 |
| 1970 | Sept. 2, 1970 | 12.04 | 270 |
| 1971 | Oct. 11, 1970 | 12.58 | 364 |
| 1972 | Apr. 27, 1972 | 11.58 | 208 |

< Less than amount shown.

a No flow for period August to September 1965.

BRAZOS RIVER BASIN

08114900 Seabourne Creek near Rosenberg, Tex. (12)

Location.--Lat 29°31'27", long 95°48'29", Fort Bend County, at culvert on State Highway 36 and 2.4 miles (3.9 km) south of Rosenberg.

Drainage area.--5.70 mi² (14.8 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 5.3 miles (8.5 km); slope index, 3.24 ft/mi (0.61 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Sept. 9, 1966 | a4.92 | 310 |
| 1967 | Aug. 25, 1967 | 4.82 | 160 |
| 1968 | June 23, 1968 | 6.21 | 295 |
| 1969 | May 16, 1969 | 6.78 | 355 |
| 1970 | May 1, 1970 | 4.21 | 112 |
| 1971 | Sept. 10, 1971 | 6.37 | 310 |
| 1972 | May 10, 1972 | 6.25 | 300 |

a Maximum for period Aug. 12 to Sept. 30, 1966.

BRAZOS RIVER BASIN

08116400 Dry Creek near Rosenberg, Tex. (12)

Location.--Lat 29°30'42", long 95°44'45", Fort Bend County, on right bank, 38 ft (12 m) downstream from county road bridge, 5 miles (8 km) southeast of Rosenberg, and 8.2 miles (13.2 km) upstream from Smithers Lake spillway.

Drainage area.--8.53 mi² (22.1 km²).

Gage.--Recording. Datum of gage is 71.90 ft (21.92 m) above mean sea level, datum of 1929, supplementary adjustment of 1943.

Historical data.--Highest flood since at least 1932, Oct. 31, 1959, from information by local residents.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1959 | Apr. 11, 1959 | 8.00 | 504 |
| 1960 | Oct. 31, 1959 | 12.66 | 2,410 |
| 1961 | June 19, 1961 | 11.13 | 1,120 |
| 1962 | Nov. 13, 1961 | 6.88 | 348 |
| 1963 | Jan. 17, 1963 | 9.83 | 762 |
| 1964 | Mar. 19, 1964 | 8.13 | 386 |
| 1965 | Feb. 16, 1965 | 10.30 | 860 |
| 1966 | Apr. 14, 1966 | 10.96 | 900 |
| 1967 | Aug. 25, 1967 | 6.56 | 338 |
| 1968 | June 24, 1968 | 10.30 | 860 |
| 1969 | May 16, 1969 | 11.29 | 975 |
| 1970 | Sept. 1, 1970 | 9.10 | 466 |
| 1971 | Oct. 12, 1970 | 12.26 | 1,400 |
| 1972 | May 10, 1972 | 10.12 | 766 |

SAN BERNARD RIVER BASIN

08117800 Mound Creek tributary at Guy, Tex. (12)

Location.--Lat 29°20'49", long 95°46'30", Fort Bend County, at culvert on State Highway 36 and 0.2 mile (0.3 km) southeast of Guy.

Drainage area.--1.48 mi² (3.83 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.80 miles (4.51 km); slope index, 3.3 ft/mi (0.6 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | - | a<1.58 | (†) |
| 1967 | - | <1.58 | (†) |
| 1968 | - | <1.58 | (†) |
| 1969 | - | <1.58 | (†) |
| 1970 | - | <1.58 | (†) |
| 1971 | Oct. 11, 1970 | 2.28 | 206 |
| 1972 | May 10, 1972 | 2.20 | 195 |

† Discharge not determined.

< Less than amount shown.

a Maximum for period July 12 to Sept. 30, 1966.

COLORADO RIVER BASIN

08123620 Sulphur Springs Draw near Wellman, Tex. (05)

Location--Lat 33°04'36", long 102°27'54", Terry County, at culvert on Farm Road 402 and 3 miles (5 km) northwest of Wellman.

Drainage area--

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Aug. 24, 1966 | 7.41 | 240 |
| 1967 | June 25, 1967 | 4.01 | 102 |
| 1968 | July 1, 1968 | 3.32 | 69 |
| 1969 | - | <2.05 | ab<5 |
| 1970 | - | <2.05 | ab<5 |
| 1971 | June 5, 1971 | 3.78 | 91 |
| 1972 | Sept. 14, 1972 | 6.20 | 98 |

- < Less than amount shown.
- a Estimate.
- b Revised.

COLORADO RIVER BASIN

08123750 Coahoma Draw tributary near Big Spring, Tex. (08)

Location.--Lat 32°21'17", long 101°24'18", Howard County, at culvert on State Highway 350 and 8.5 miles (13.7 km) northeast of Big Spring.

Drainage area.--2.38 mi² (6.16 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.42 miles (3.89 km); slope index, 32.4 ft/mi (6.1 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 21, 1965 | a4.05 | 265 |
| 1966 | Apr. 30, 1966 | 3.47 | 185 |
| 1967 | July 20, 1967 | 5.54 | 480 |
| 1968 | June 15, 1968 | 4.47 | 328 |
| 1969 | June 9, 1969 | 6.12 | 870 |
| 1970 | May 30, 1970 | 6.11 | 840 |
| 1971 | Aug. 8, 1971 | 5.89 | 520 |
| 1972 | Sept. 2, 1972 | 6.20 | 1,110 |

a Maximum for period June to September 1965.

COLORADO RIVER BASIN

08123760 Bull Creek tributary near Forsan, Tex. (08)

Location.--Lat 32°08'23", long 101°10'53", Howard County, at culvert on Farm Road 2183 and 11.4 miles (18.3 km) east of Forsan.

Drainage area.--0.40 mi² (1.04 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.9 mile (1.4 km); slope index, 128 ft/mi (24 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 30, 1966 | a8.23 | 140 |
| 1967 | - | - | 0 |
| 1968 | - | <6.02 | bc<5 |
| 1969 | - | <6.02 | bc<5 |
| 1970 | - | <6.02 | bc<5 |
| 1971 | Aug. 11, 1971 | 8.74 | 175 |
| 1972 | May 5, 1972 | 9.69 | 253 |

< Less than amount shown.

a Maximum for period February to September 1966.

b Estimate.

c Revised.

COLORADO RIVER BASIN

08123920 Bitter Creek near Silver, Tex. (07)

Location.--Lat 31°58'48", long 100°42'52", Coke County, at culvert on Farm Road 2059, 2.5 miles (4.0 km) upstream from mouth, and 6.4 miles (10.3 km) south of Silver.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | July 19, 1967 | 3.24 | 98 |
| 1968 | May 10, 1968 | 6.42 | 370 |
| 1969 | - | <2.10 | ab<5 |
| 1970 | - | <2.10 | ab<5 |
| 1971 | June 22, 1971 | 10.42 | 850 |
| 1972 | Oct. 4, 1971 | 2.73 | 66 |

- < Less than amount shown.
- a Estimate.
- b Revised.

COLORADO RIVER BASIN

08125450 Salt Creek tributary near Hylton, Tex. (08)

Location.--Lat 32°07'57", long 100°14'02", Nolan County, at culvert on Farm Road 1170 and 1.8 miles (2.9 km) west of Hylton.

Drainage area.--0.25 mi² (0.65 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.72 mile (1.16 km); slope index, 185 ft/mi (35 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 30, 1966 | a5.14 | 36 |
| 1967 | July 19, 1967 | 8.18 | 155 |
| 1968 | Aug. 14, 1968 | 7.41 | 120 |
| 1969 | May 4, 1969 | 7.40 | 119 |
| 1970 | Sept. 26, 1970 | 5.32 | 41 |
| 1971 | Aug. 1, 1971 | 6.84 | 96 |
| 1972 | Sept. 3, 1972 | <4.82 | <5 |

< Less than amount shown.

a Maximum for period February to September 1966.

COLORADO RIVER BASIN

08127100 Dry Creek near Christoval, Tex. (07)

Location.--Lat 31°05'21", long 100°20'56", Tom Green County, at culvert on Farm Road 2084 and 11.4 miles (18.3 km) southeast of Christoval.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Aug. 12, 1965 | a1.77 | b<51 |
| 1966 | Sept. 18, 1966 | 3.64 | 285 |
| 1967 | July 20, 1967 | 4.64 | 470 |
| 1968 | - | <1.41 | b<10 |
| 1969 | - | <1.41 | b<10 |
| 1970 | Dec. 29, 1969 | 1.73 | b<48 |
| 1971 | May 29, 1971 | 7.26 | 1,050 |
| 1972 | May 14, 1972 | 1.64 | 42 |

< Less than amount shown.

a Maximum for period June to September 1965.

b Revised.

COLORADO RIVER BASIN

08133300 Quarry Creek near Sterling City, Tex. (07)

Location.--Lat 31°50'48", long 101°09'18", Sterling County, at culvert on State Highway 158 and 9.8 miles (15.8 km) west of Sterling City.

Drainage area.--3.25 mi² (8.42 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.0 miles (4.8 km); slope index, 95 ft/mi (18 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 18, 1965 | a4.73 | 170 |
| 1966 | Oct. 17, 1965 | 4.81 | 190 |
| 1967 | June 2, 1967 | 4.83 | 195 |
| 1968 | May 10, 1968 | 4.57 | 130 |
| 1969 | Sept. 9, 1969 | 5.65 | 420 |
| 1970 | Sept. 14, 1970 | 4.50 | 116 |
| 1971 | Sept. 21, 1971 | 5.48 | 380 |
| 1972 | May 12, 1972 | 5.44 | 370 |

a Maximum for period June to September 1965.

COLORADO RIVER BASIN

08133800 Broome Creek near Broome, Tex. (07)

Location.--Lat 31°46'05", long 100°51'09", Sterling County, at culvert on U.S. Highway 87 and 1.1 miles (1.8 km) northwest of Broome.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | Sept. 18, 1965 | a2.81 | 150 |
| 1966 | Oct. 17, 1965 | 2.87 | 160 |
| 1967 | Mar. 20, 1967 | 2.60 | 115 |
| 1968 | Apr. 10, 1968 | <2.37 | c<5 |
| 1969 | Apr. 12, 1969 | 2.60 | 107 |
| 1970 | Dec. 29, 1969 | <2.37 | c<5 |
| 1971 | Apr. 16, 1971 | <2.37 | bc10 |
| 1972 | Apr. 20, 1972 | <2.37 | <5 |

< Less than amount shown.

a Maximum for period June to September 1965.

b Estimated.

c Revised.

COLORADO RIVER BASIN

08134300 Nolke Station Creek near San Angelo, Tex. (07)

Location--Lat 31°31'34", long 100°33'46", Tom Green County, at culvert on Farm Road 2288 and 8.6 miles (13.8 km) northwest of San Angelo.

Drainage area--0.59 mi² (1.53 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 1.72 miles (2.77 km); slope index, 67 ft/mi (13 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | May 17, 1965 | 7.58 | 281 |
| 1966 | Apr. 30, 1966 | 6.16 | 170 |
| 1967 | Mar. 22, 1967 | 3.89 | 42 |
| 1968 | June 17, 1968 | <2.74 | a<5 |
| 1969 | Aug. 26, 1969 | 3.01 | a<5 |
| 1970 | Oct. 27, 1969 | <2.74 | a<5 |
| 1971 | Aug. 10, 1971 | 7.80 | 300 |
| 1972 | Sept. 9, 1972 | <2.74 | <5 |

< Less than amount shown.

a Revised.

COLORADO RIVER BASIN

08134400 Gravel Pit Creek near San Angelo, Tex. (07)

Location.--Lat 31°27'54", long 100°31'17", Tom Green County, at culvert on Farm Road 2288 and 5 miles (8 km) west of San Angelo.

Drainage area.--0.19 mi² (0.49 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.55 mile (0.89 km); slope index, 80 ft/mi (15 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | June 4, 1965 | a2.09 | 24 |
| 1966 | Aug. 24, 1966 | 2.79 | 41 |
| 1967 | Sept. 4, 1967 | 2.15 | 25 |
| 1968 | Apr. 10, 1968 | 1.63 | 15 |
| 1969 | Aug. 26, 1969 | 1.30 | b<18 |
| 1970 | Dec. 28, 1969 | 1.07 | b<18 |
| 1971 | Aug. 1, 1971 | 3.49 | 62 |
| 1972 | Sept. 9, 1972 | 1.80 | 18 |

< Less than amount shown.

a Maximum for period May to September 1965.

b Revised.

COLORADO RIVER BASIN

08136200 Puddle Creek near Veribest, Tex. (07)

Location.--Lat 31°30'38", long 100°09'31", Tom Green County, at culvert on Farm Road 1692 and 6.2 miles (10.0 km) northeast of Veribest.

Drainage area.--12.05 mi² (31.21 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 5.7 miles (9.2 km); slope index, 15.5 ft/mi (2.9 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | July 31, 1966 | a5.70 | 72 |
| 1967 | July 19, 1967 | 5.46 | 50 |
| 1968 | May 9, 1968 | 5.11 | b<25 |
| 1969 | Sept. 9, 1969 | 6.35 | 115 |
| 1970 | Mar. 7, 1970 | 5.63 | 67 |
| 1971 | July 25, 1971 | 6.38 | 127 |
| 1972 | Oct. 3, 1971 | 5.87 | 85 |

< Less than amount shown.

a Maximum for period February to September 1966.

b Revised.

COLORADO RIVER BASIN

08136300 Frog Pond Creek near Eden, Tex. (07)

Location.--Lat 31°14'21", long 99°59'54", Concho County, at culvert on U.S. Highway 87 and 9.4 miles (15.1 km) west of Eden.

Drainage area.--1.96 mi² (5.08 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.8 miles (4.5 km); slope index, 53.8 ft/mi (10.2 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | Aug. 17, 1967 | 3.69 | 318 |
| 1968 | Apr. 9, 1968 | 2.52 | 86 |
| 1969 | Sept. 11, 1969 | 4.82 | 490 |
| 1970 | Oct. 10, 1969 | 1.77 | b5 |
| 1971 | July 26, 1971 | <1.77 | ab<2 |
| 1972 | Oct. 19, 1971 | 4.35 | 420 |

- < Less than amount shown.
- a Estimated.
- b Revised.

COLORADO RIVER BASIN

08136900 Mukewater Creek subwatershed No. 10A
near Trickham, Tex. (23)

Location.--Lat 31°39'01", long 99°13'30", Coleman County, near center of dam on Mukewater Creek, 1.8 miles (2.9 km) upstream from East Fork, and 4.3 miles (6.9 km) north of Trickham.

Drainage area.--21.8 mi² (56.5 km²).

Gage.--Recording. Datum of gage is 1,462.00 ft (445.62 m) above mean sea level, datum of 1929.

Remarks.--Peak discharge based on maximum inflow (average for 5-minute interval), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. There are eight rain gages (two recording and six nonrecording) located in watershed. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1966 | Sept. 9, 1966 | 806 |
| 1967 | Sept. 15, 1967 | 1,300 |
| 1968 | Mar. 20, 1968 | 1,540 |
| 1969 | Sept. 11, 1969 | 649 |
| 1970 | Aug. 31, 1970 | 429 |
| 1971 | Sept. 23, 1971 | 1,030 |
| 1972 | Oct. 18, 1972 | 511 |

COLORADO RIVER BASIN

08137000 Mukewater Creek subwatershed No. 9
near Trickham, Tex. (23)

Location.--Lat 31°41'40", long 99°12'18", Coleman County, near center of dam on tributary to East Fork Mukewater Creek, 1.5 miles (2.4 km) upstream from mouth, 4.5 miles (7.2 km) southwest of Bangs, and 7.1 miles (11.4 km) north of Trickham.

Drainage area.--4.02 mi² (10.41 km²).

Gage.--Recording. Datum of gage is 1,500.01 ft (457.20 m) above mean sea level, datum of 1929.

Topographic characteristics.--Length of main stream, 3.6 miles (5.8 km); slope index, 20.4 ft/mi (3.9 m/km). (Map scale, 1:24,000)

Remarks.--Peak discharge based on maximum inflow (average for 5- or 15-minute intervals), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. Recording rain gage located at station. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1961 | June 5, 1961 | a1,440 |
| 1962 | Oct. 9, 1961 | 44 |
| 1963 | May 22, 1963 | 186 |
| 1964 | Apr. 23, 1964 | 1,170 |
| 1965 | Nov. 17, 1964 | 838 |
| 1966 | Nov. 8, 1965 | 267 |
| 1967 | Sept. 15, 1967 | b380 |
| 1968 | Mar. 20, 1968 | 853 |
| 1969 | Sept. 10, 1969 | 460 |
| 1970 | June 1, 1970 | 205 |
| 1971 | Sept. 23, 1971 | 621 |
| 1972 | Apr. 21, 1972 | 203 |

a Maximum for period January to September 1961.

b Estimated.

COLORADO RIVER BASIN

08139000 Deep Creek subwatershed No. 3
near Placid, Tex. (23)

Location.--Lat 31°17'10", long 99°09'25", McCulloch County, near right of dam on tributary to Deep Creek and 2.8 miles (4.5 km) southeast of Placid.

Drainage area.--3.42 mi² (8.86 km²).

Gage.--Water-stage recorder. Datum of gage is 1,500.00 ft (457.20 m) above mean sea level, datum of 1929. Prior to Dec. 1, 1953, staff gage at same site and datum.

Remarks.--Peak discharge based on maximum inflow (average for 5- or 15-minute intervals), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. Recording rain gage located at station. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1954 | Oct. 4, 1953 | 742 |
| 1955 | May 18, 1955 | 1,800 |
| 1956 | Aug. 28, 1956 | 218 |
| 1957 | May 12, 1957 | 1,160 |
| 1958 | Mar. 6, 1958 | 448 |
| 1959 | June 3, 1959 | 938 |
| 1960 | Oct. 4, 1959 | a280 |
| 1961 | June 5, 1961 | 235 |
| 1962 | June 26, 1962 | 154 |
| 1963 | May 30, 1963 | 208 |
| 1964 | Sept. 27, 1964 | 681 |
| 1965 | Feb. 8, 1965 | 322 |
| 1966 | Sept. 15, 1966 | 280 |
| 1967 | May 20, 1967 | 203 |
| 1968 | Jan. 20, 1968 | 315 |
| 1969 | May 6, 1969 | 736 |
| 1970 | Oct. 4, 1970 | 109 |
| 1971 | July 26, 1971 | 3,060 |
| 1972 | Oct. 19, 1971 | 464 |

a Estimated.

COLORADO RIVER BASIN

08141100 McCall Branch near Coleman, Tex. (23)

Location.--Lat 31°50'57", long 99°33'12", Coleman County, at culvert on State Highway 53, 1.0 mile (1.6 km) upstream from Hords Creek, and 8.2 miles (13.2 km) west of Coleman.

Drainage area.--2.17 mi² (5.62 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.33 miles (3.75 km); slope index, 54.3 ft/mi (10.3 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | June 18, 1966 | a4.78 | 440 |
| 1967 | Sept. 15, 1967 | 3.97 | 230 |
| 1968 | Jan. 20, 1968 | 5.24 | 710 |
| 1969 | June 12, 1969 | 4.76 | 605 |
| 1970 | June 1, 1970 | 4.46 | b535 |
| 1971 | Sept. 22, 1971 | 3.85 | 410 |
| 1972 | Oct. 19, 1971 | 4.10 | 460 |

a Maximum for period March to September 1966.

b Revised.

COLORADO RIVER BASIN

08143700 Brown's Creek tributary near Goldthwaite, Tex. (23)

Location--Lat 31°31'01", long 98°34'00", Mills County, at culvert on State Highway 16 and 4.6 miles (7.4 km) north of Goldthwaite.

Drainage area--2.48 mi² (6.42 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 2.75 miles (4.42 km); slope index, 90.8 ft/mi (17.2 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 29, 1966 | a4.48 | 230 |
| 1967 | July 1, 1967 | <3.36 | bc10 |
| 1968 | May 10, 1968 | 3.46 | 76 |
| 1969 | Sept. 11, 1969 | 4.55 | 241 |
| 1970 | Oct. 4, 1969 | 6.34 | 600 |
| 1971 | Aug. 2, 1971 | 3.86 | 136 |
| 1972 | Oct. 19, 1971 | 3.58 | 90 |

< Less than amount shown.

a Maximum for period February to September 1966.

b Estimated.

c Revised.

COLORADO RIVER BASIN

08145100 Brady Creek tributary near Brady, Tex. (23)

Location.--Lat 31°05'05", long 99°17'33", McCulloch County, at culvert on Farm Road 734 and 4.3 miles (6.9 km) southeast of Brady.

Drainage area.--4.05 mi² (10.49 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.76 miles (6.05 km); slope index, 29.9 ft/mi (5.7 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | May 20, 1967 | 4.14 | 218 |
| 1968 | Jan. 20, 1968 | 3.51 | 140 |
| 1969 | Sept. 10, 1969 | 2.84 | 60 |
| 1970 | Mar. 6, 1970 | 2.66 | 40 |
| 1971 | Sept. 24, 1971 | 14.73 | 3,970 |
| 1972 | Oct. 4, 1971 | 3.01 | 78 |

COLORADO RIVER BASIN

08150200 Llano River tributary near London, Tex. (07)

Location.--Lat 30°38'22", long 99°35'52", Kimble County, at culvert on U.S. Highway 377 and 2.7 miles (4.3 km) south of London.

Drainage area.--0.58 mi² (1.50 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.3 miles (2.1 km); slope index, 168 ft/mi (32 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 28, 1966 | a5.21 | 10 |
| 1967 | July 20, 1967 | 5.49 | 21 |
| 1968 | Jan. 20, 1968 | 5.38 | b15 |
| 1969 | Aug. 27, 1969 | 5.52 | b23 |
| 1970 | Feb. 24, 1970 | 5.03 | b<6 |
| 1971 | July 26, 1971 | 6.44 | 84 |
| 1972 | Sept. 21, 1972 | 5.22 | 11 |

< Less than amount shown.

a Maximum for period February to September 1966.

b Revised.

COLORADO RIVER BASIN

08150900 Stone Creek tributary near Art, Tex. (14)

Location--Lat 30°44'17", long 99°03'29", Mason County, at culvert on State Highway 29, 3.2 miles (5.1 km) east of Art, and 10.6 miles (17.1 km) east of Mason.

Drainage area--0.40 mi² (1.04 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 1.25 miles (2.01 km); slope index, 45.7 ft/mi (8.7 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Aug. 11, 1966 | a3.88 | 45 |
| 1967 | - | <2.98 | bc5 |
| 1968 | May 11, 1968 | 4.66 | 82 |
| 1969 | July 27, 1969 | 5.44 | 127 |
| 1970 | Oct. 4, 1969 | 6.43 | 194 |
| 1971 | Sept. 22, 1971 | 6.78 | 218 |
| 1972 | Sept. 22, 1972 | 6.78 | 218 |

< Less than amount shown.

a Maximum for period February to September 1966.

b Estimated.

c Revised.

COLORADO RIVER BASIN

08151300 Johnson Creek near Valley Spring, Tex. (14)

Location--Lat 30°51'38", long 98°49'52", Llano County, at culvert on Farm Road 734, 0.8 mile (1.3 km) west of Valley Spring, and 12 miles (19 km) west of Llano.

Drainage area--5.66 mi² (14.66 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 5.72 miles (9.20 km); slope index, 68.8 ft/mi (13.0 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | May 20, 1967 | 3.22 | 190 |
| 1968 | July 9, 1968 | 4.96 | 750 |
| 1969 | May 15, 1969 | 3.56 | 270 |
| 1970 | Sept. 16, 1970 | 4.36 | 520 |
| 1971 | May 8, 1971 | 3.67 | 330 |
| 1972 | Oct. 19, 1971 | 4.30 | 500 |

COLORADO RIVER BASIN

08152700 Little Flatrock Creek near Marble Falls, Tex. (14)

Location.--Lat 30°30'52", long 98°18'44", Burnet County, at culvert on State Highway 71 and 4.8 miles (7.7 km) southwest of Marble Falls.

Drainage area.--3.20 mi² (8.29 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 4.2 miles (6.8 km); slope index, 37.9 ft/mi (7.2 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | - | - | a0 |
| 1967 | - | <4.80 | <50 |
| 1968 | Jan. 21, 1968 | 7.15 | 680 |
| 1969 | May 7, 1969 | 5.26 | 126 |
| 1970 | May 26, 1970 | 9.72 | 1,690 |
| 1971 | - | <4.80 | <50 |
| 1972 | June 17, 1972 | 5.27 | 129 |

< Less than amount shown.

a No flow for period July to September 1966.

COLORADO RIVER BASIN

08152800 Spring Creek near Fredericksburg, Tex. (14)

Location.--Lat 30°18'10", long 99°03'20", Gillespie County, on down-stream side of bridge on U.S. Highway 290 and 11 miles (18 km) west of Fredericksburg.

Drainage area.--15.2 mi² (39.4 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 6.15 miles (9.9 km); slope index, 43.8 ft/mi (8.3 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | May 21, 1967 | 3.38 | 110 |
| 1968 | May 10, 1968 | 4.37 | 620 |
| 1969 | May 8, 1969 | 4.36 | 610 |
| 1970 | Oct. 12, 1969 | 4.37 | 615 |
| 1971 | Aug. 13, 1971 | 3.68 | 200 |
| 1972 | Oct. 19, 1971 | 5.43 | 2,100 |

COLORADO RIVER BASIN

08153100 Cane Branch at Stonewall, Tex. (14)

Location.--Lat 30°14'07", long 98°39'21", Gillespie County, at culvert on U.S. Highway 290 at Stonewall and 0.6 mile (1.0 km) upstream from Pedernales River.

Drainage area.--1.37 mi² (3.55 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.35 miles (5.39 km); slope index, 59 ft/mi (11 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | - | - | a0 |
| 1966 | Sept. 10, 1966 | 9.91 | 24 |
| 1967 | Sept. 15, 1967 | 10.92 | 74 |
| 1968 | July 13, 1968 | 11.78 | 135 |
| 1969 | Apr. 10, 1969 | 9.88 | 22 |
| 1970 | - | <9.82 | <20 |
| 1971 | - | <9.82 | <20 |
| 1972 | Oct. 19, 1971 | 13.45 | 275 |

< Less than amount shown.

a No flow for period August to September 1965.

COLORADO RIVER BASIN

08157000 Waller Creek at 38th Street at Austin, Tex. (14)

Location.--Lat 30°17'49", long 97°43'36", Travis County, on right bank 200 ft (61 m) upstream from bridge on East 38th Street at Austin, 1.1 miles (1.8 km) upstream from West Branch of Waller Creek, and 3.3 miles (5.3 km) upstream from Colorado River.

Drainage area.--2.31 mi² (5.98 km²).

Gage.--Recording. Datum of gage is 555.44 ft (169.30 m) above mean sea level, datum of 1929, Fort Worth supplementary adjustment of 1942.

Topographic characteristics.--Length of main stream, 4.3 miles (6.9 km); slope index, 45.8 ft/mi (8.7 m/km). (Map scale, 1:24,000)

Remarks.--This station operated as research project for runoff from urban areas. Two standard and one recording rain gages located in watershed. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1956 | May 1, 1956 | 3.94 | a108 |
| 1957 | May 26, 1957 | 5.75 | 596 |
| 1958 | Oct. 14, 1957 | 5.54 | 518 |
| 1959 | Sept. 23, 1959 | 5.41 | 468 |
| 1960 | Oct. 4, 1959 | 4.67 | 251 |
| 1961 | Oct. 29, 1960 | 7.77 | 1,970 |
| 1962 | June 10, 1962 | 7.11 | 1,420 |
| 1963 | June 18, 1963 | 4.72 | 263 |
| 1964 | Sept. 27, 1964 | 7.01 | 1,340 |
| 1965 | May 16, 1965 | 6.15 | 805 |
| 1966 | Aug. 11, 1966 | 5.75 | 618 |
| 1967 | Apr. 23, 1967 | 5.72 | 604 |
| 1968 | Oct. 15, 1967 | 6.03 | 745 |
| 1969 | Aug. 14, 1969 | 5.07 | 361 |
| 1970 | May 15, 1970 | 5.31 | 444 |
| 1971 | Aug. 4, 1971 | 5.68 | 587 |
| 1972 | May 2, 1972 | 7.09 | 1,400 |

a Maximum for period Apr. 1 to Sept. 30, 1956.

COLORADO RIVER BASIN

08157500 Waller Creek at 23d Street at Austin, Tex. (14)

Location.--Lat 30°17'08", long 97°44'01", Travis County, on San Jacinto Boulevard, 50 ft (15 m) upstream from bridge on East 23d Street at Austin, and 2.1 miles (3.4 km) upstream from Colorado River.

Drainage area.--4.13 mi² (10.7 km²).

Gage.--Recording. Datum of gage is 509.95 ft (155.43 m) above mean sea level, datum of 1929, Fort Worth supplementary adjustment of 1942.

Topographic characteristics.--Length of main stream, 5.3 miles (8.5 km); slope index, 45.5 ft/mi (8.6 m/km). (Map scale, 1:24,000)

Remarks.--Three recording and three nonrecording rain gages located in watershed. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1951 | June 12, 1951 | - | a2,010 |
| 1954 | Oct. 23, 1953 | 8.0 | - |
| 1955 | May 18, 1955 | b5.40 | 1,640 |
| 1956 | May 1, 1956 | 3.90 | 615 |
| 1957 | June 12, 1957 | 5.85 | 2,050 |
| 1958 | Apr. 26, 1958 | 5.47 | 1,700 |
| 1959 | Sept. 23, 1959 | 5.71 | 1,910 |
| 1960 | Oct. 4, 1959 | 4.11 | 726 |
| 1961 | Oct. 29, 1960 | 7.96 | 3,710 |
| 1962 | June 3, 1962 | 6.40 | 2,270 |
| 1963 | June 18, 1963 | 4.70 | 1,070 |
| 1964 | Sept. 27, 1964 | 7.08 | 2,280 |
| 1965 | May 16, 1965 | 7.12 | 2,320 |
| 1966 | Aug. 11, 1966 | 6.25 | 1,680 |
| 1967 | Apr. 23, 1967 | 4.96 | 900 |
| 1968 | May 27, 1968 | 5.54 | 1,220 |
| 1969 | May 8, 1969 | 5.75 | 1,350 |
| 1970 | May 15, 1970 | 4.35 | 610 |
| 1971 | June 21, 1971 | 6.08 | 1,560 |
| 1972 | May 2, 1972 | 6.91 | 2,160 |

a Peak discharge determined by slope-area measurement half a mile downstream from gage.

b Maximum for period January to September 1955.

COLORADO RIVER BASIN

08158900 Fox Branch near Oak Hill, Tex. (14)

Location--Lat 30°14'00", long 97°52'25", Travis County, at culvert on State Highway 71, near intersection with U.S. Highway 290, 0.2 mile (0.3 km) upstream from Williamson Creek, and 1.0 mile (1.6 km) west of Oak Hill.

Drainage area--

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1965 | - | - | a0 |
| 1966 | Sept. 8, 1966 | 10.15 | 11 |
| 1967 | Sept. 4, 1967 | 13.81 | 249 |
| 1968 | Oct. 15, 1967 | 11.53 | 82 |
| 1969 | Aug. 27, 1969 | 10.71 | 34 |
| 1970 | Oct. 12, 1969 | 11.11 | 56 |
| 1971 | July 26, 1971 | 10.72 | 34 |
| 1972 | Nov. 17, 1971 | 10.81 | 39 |

a No flow for period August to September 1965.

COLORADO RIVER BASIN

08159150 Wilbarger Creek near Pflugerville, Tex. (14)

Location.--Lat 30°27'16", long 97°36'02", Travis County, on left bank 131 ft (40 m) downstream from county road (Pfluger Lane), 800 ft (244 m) downstream from Farm Road 685, 1.6 miles (2.6 km) northeast of Pflugerville, and 1.9 miles (3.1 km) downstream from Missouri-Kansas-Texas Railroad.

Drainage area.--4.61 mi² (11.94 km²).

Gage.--Water-stage recorder. Datum of gage is 670.61 ft (204.40 m) above mean sea level, datum of 1929.

Remarks.--Three recording rain gages located in the watershed. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1964 | June 16, 1964 | 6.92 | 1,760 |
| 1965 | Feb. 16, 1965 | 4.75 | 737 |
| 1966 | Apr. 24, 1966 | 3.67 | 396 |
| 1967 | May 1, 1967 | 3.76 | 418 |
| 1968 | Jan. 18, 1968 | 4.27 | 559 |
| 1969 | Apr. 12, 1969 | 4.03 | 488 |
| 1970 | May 15, 1970 | 4.48 | 633 |
| 1971 | Oct. 23, 1971 | 4.42 | 611 |
| 1972 | Nov. 18, 1971 | 4.28 | 563 |

COLORADO RIVER BASIN

08159450 Reeds Creek near Bastrop, Tex. (14)

Location.--Lat 30°00'26", long 97°15'03"; Bastrop County, on downstream side of bridge on Farm Road 2571 and 8.3 miles (13.4 km) southeast of Bastrop.

Drainage area.--5.22 mi² (13.52 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 4.65 miles (7.48 km); slope index, 38.4 ft/mi (7.3 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | May 11, 1965 | 9.4 | a4,000 |
| 1967 | Sept. 21, 1967 | 3.28 | 600 |
| 1968 | Jan. 22, 1968 | 4.16 | 1,060 |
| 1969 | - | <2.28 | <330 |
| 1970 | - | <2.38 | <660 |
| 1971 | - | <2.38 | <660 |
| 1972 | - | <2.38 | <660 |

< Less than amount shown.

a Computation of flow through culvert and over roadway.

COLORADO RIVER BASIN

08160800 Redgate Creek near Columbus, Tex. (13)

Location--Lat 29°47'56", long 96°31'55", Colorado County, on left bank, 68 ft (21 m) downstream from bridge on Farm Road 109, 1.8 miles (2.9 km) upstream from Cummins Creek, and 7 miles (11 km) north of Columbus.

Drainage area--17.3 mi² (44.8 km²).

Gage--Recording. Datum of gage is 210.82 ft (64.26 m) above mean sea level.

Remarks--No known diversion above station.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1962 | June 30, 1962 | 6.95 | 1,060 |
| 1963 | Feb. 18, 1963 | 4.45 | 391 |
| 1964 | Mar. 19, 1964 | 4.95 | 508 |
| 1965 | Jan. 22, 1965 | 14.20 | 3,990 |
| 1966 | Nov. 8, 1965 | 5.75 | 655 |
| 1967 | Sept. 15, 1967 | 7.68 | 1,130 |
| 1968 | May 27, 1968 | 12.03 | 2,900 |
| 1969 | Feb. 21, 1969 | 11.12 | 2,630 |
| 1970 | Sept. 2, 1970 | 7.89 | 1,260 |
| 1971 | Oct. 23, 1971 | 14.60 | 4,200 |
| 1972 | Mar. 20, 1972 | 13.21 | 3,490 |

COLORADO RIVER BASIN

08161580 Dry Branch tributary near Altair, Tex. (13)

Location--Lat 29°34'39", long 96°28'16", Colorado County, at culvert on State Highway 71 and 0.9 mile (1.4 km) northwest of Altair.

Drainage area--0.68 mi² (1.76 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 1.15 miles (1.85 km); slope index, 20 ft/mi (4 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | - | a<0.13 | (†) |
| 1967 | Sept. 21, 1967 | 1.45 | 54 |
| 1968 | June 23, 1968 | 2.27 | 188 |
| 1969 | Feb. 21, 1969 | 1.59 | 75 |
| 1970 | Mar. 17, 1970 | .54 | <20 |
| 1971 | Sept. 10, 1971 | 2.61 | 240 |
| 1972 | May 12, 1972 | 2.62 | 282 |

† Discharge not determined.

< Less than amount shown.

a Maximum for period Aug. 10 to Sept. 30, 1966.

GUADALUPE RIVER BASIN

08166300 Turtle Creek tributary near Kerrville, Tex. (15)

Location.--Lat 29°58'11", long 99°11'02", Kerr County, at culvert on Farm Road 2771 and 5.9 miles (9.5 km) south of Kerrville.

Drainage area.--0.46 mi² (1.19 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.02 miles (1.64 km); slope index, 191 ft/mi (36 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | May 22, 1966 | a8.82 | 81 |
| 1967 | Sept. 15, 1967 | 8.81 | 80 |
| 1968 | Oct. 14, 1967 | 8.66 | 74 |
| 1969 | Apr. 12, 1969 | 6.47 | 20 |
| 1970 | Oct. 5, 1969 | 10.67 | (+) |
| 1971 | Aug. 12, 1971 | 10.80 | (+) |
| 1972 | Oct. 4, 1971 | 8.70 | 76 |

† Discharge not determined.

a Maximum for period Mar. 17 to Sept. 30, 1966.

GUADALUPE RIVER BASIN

08167600 Rebecca Creek near Spring Branch, Tex. (15)

Location.--Lat 29°55'06", long 98°22'10", Comal County, on right bank 72 ft (22 m) upstream from private road crossing, 2.9 miles (4.7 km) upstream from mouth, and 3.7 miles (6.0 km) northeast of Spring Branch.

Drainage area.--10.9 mi² (28.2 km²).

Gage.--Recording. Datum of gage is 985.55 ft (300.40 m) above mean sea level, datum of 1929.

Topographic characteristics.--Length of main stream, 3.9 miles (6.3 km); slope index, 45.5 ft/mi (8.6 m/km). (Map scale, 1:24,000)

Historical data.--Maximum stage since at least 1885, 25.5 ft (7.8 m) in September 1952, from information by local residents.

Remarks.--Rain gage at site.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1961 | Oct. 29, 1960 | 6.18 | 4,340 |
| 1962 | Apr. 27, 1962 | 2.12 | 3.8 |
| 1963 | Apr. 5, 1963 | 6.20 | 4,340 |
| 1964 | Mar. 18, 1964 | 2.99 | 249 |
| 1965 | May 11, 1965 | 7.70 | 8,500 |
| 1966 | Oct. 18, 1965 | 7.97 | 9,300 |
| 1967 | Sept. 4, 1967 | 4.09 | 1,130 |
| 1968 | Jan. 18, 1968 | 6.00 | 3,970 |
| 1969 | Apr. 12, 1969 | 3.16 | 357 |
| 1970 | May 23, 1970 | 4.22 | 1,270 |
| 1971 | Oct. 23, 1971 | 2.28 | 14 |
| 1972 | June 17, 1972 | 5.38 | 2,890 |

GUADALUPE RIVER BASIN

08168720 Trough Creek near New Braunfels, Tex. (15)

Location--Lat 29°46'20", long 98°15'55", Comal County, at culvert on State Highway 46 and 11 miles (18 km) northwest of New Braunfels.

Drainage area--0.48 mi² (1.24 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 1.25 miles (2.01 km); slope index, 152 ft/mi (29 m/km). (Map scale, 1:24,000)

| <u>Annual maximum stage and discharge</u> | | | |
|-------------------------------------------|---------------|-------------------------|-------------------------------------|
| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
| 1965 | May 16, 1965 | a10.0 | 386 |
| 1966 | Dec. 2, 1965 | 8.59 | 236 |
| 1967 | - | <6.47 | <20 |
| 1968 | Jan. 18, 1968 | 8.73 | 255 |
| 1969 | - | <6.47 | <20 |
| 1970 | Mar. 6, 1970 | 7.08 | 86 |
| 1971 | - | <6.47 | <20 |
| 1972 | May 11, 1972 | 12.39 | 2,510 |

< Less than amount shown.

a Maximum for period Aug. 17 to Sept. 30, 1965.

GUADALUPE RIVER BASIN

08168750 West Prong Dry Comal Creek tributary
near New Braunfels, Tex. (15)

Location--Lat 29°42'48", long 98°17'26", Comal County, at culvert
on Farm Road 1863 and 10.3 miles (16.6 km) west of New Braunfels.

Drainage area--0.32 mi² (0.83 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 0.95 mile (1.53 km);
slope index, 206 ft/mi (39 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | June 18, 1966 | a6.37 | <100 |
| 1967 | - | <6.37 | <100 |
| 1968 | Jan. 18, 1968 | 6.71 | 140 |
| 1969 | - | <6.37 | <100 |
| 1970 | - | <6.37 | <100 |
| 1971 | - | <6.37 | <100 |
| 1972 | May 11, 1972 | 10.45 | 1,090 |

< Less than amount shown.

a Maximum for period June 18 to Sept. 30, 1966.

GUADALUPE RIVER BASIN

08169750 Walnut Branch at Seguin, Tex. (15)

Location.--Lat 29°34'47", long 97°58'46", Guadalupe County, at culvert on U.S. Highway 90 (West Kingsbury Street) at Seguin.

Drainage area.--5.46 mi² (14.14 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 4.75 miles (7.64 km); slope index, 14 ft/mi (3 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | Sept. 21, 1967 | 6.08 | 1,030 |
| 1968 | Jan. 19, 1968 | 5.60 | 780 |
| 1969 | Feb. 14, 1969 | 4.07 | 180 |
| 1970 | May 27, 1970 | 4.61 | 345 |
| 1971 | Aug. 3, 1971 | 4.50 | 300 |
| 1972 | May 11, 1972 | 7.50 | 1,750 |

GUADALUPE RIVER BASIN

08169850 East Pecan Branch near Gonzales, Tex. (13)

Location.--Lat 29°29'58", long 97°31'36", Gonzales County, at culvert on U.S. Highway 90-A and 3.7 miles (6.0 km) west of Gonzales.

Drainage area.--0.24 mi² (0.62 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.87 mile (1.40 km); slope index, 111 ft/mi (21 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | May 4, 1966 | 6.88 | 73 |
| 1967 | Sept. 22, 1967 | 8.91 | 165 |
| 1968 | June 23, 1968 | 6.02 | 43 |
| 1969 | Apr. 11, 1969 | 5.71 | 33 |
| 1970 | Oct. 5, 1969 | 7.72 | 110 |
| 1971 | June 28, 1971 | 6.19 | 48 |
| 1972 | May 7, 1972 | 9.14 | 175 |

GUADALUPE RIVER BASIN

08172100 West Elm Creek near Niederwald, Tex. (14)

Location--Lat 29°59'04", long 97°44'39", Caldwell County, at culvert on Farm Road 2001 and 2.3 miles (3.7 km) southwest of Niederwald.

Drainage area--0.44 mi² (1.14 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 0.84 mile (1.35 km); slope index, 106 ft/mi (20 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Dec. 2, 1965 | 6.84 | 261 |
| 1967 | Sept. 21, 1967 | 4.45 | 40 |
| 1968 | Jan. 20, 1968 | 5.57 | 127 |
| 1969 | May 14, 1969 | 7.39 | 330 |
| 1970 | May 15, 1970 | 9.96 | 700 |
| 1971 | Mar. 12, 1971 | 4.82 | 65 |
| 1972 | Sept. 16, 1972 | 8.62 | 500 |

GUADALUPE RIVER BASIN

08176200 Irish Creek near Cuero, Tex. (13)

Location.--Lat 29°08'02", long 97°12'10", DeWitt County, at bridge on Farm Road 1447 and 6.2 miles (10.0 km) northeast of Cuero.

Drainage area.--15.5 mi² (40.1 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 6.8 miles (10.9 km); slope index, 15 ft/mi (3 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | Sept. 21, 1967 | 7.86 | 4,650 |
| 1968 | May 12, 1968 | 8.01 | (†) |
| 1969 | Apr. 9, 1969 | 6.83 | (†) |
| 1970 | May 15, 1970 | 2.86 | (†) |
| 1971 | Sept. 11, 1971 | 3.19 | (†) |
| 1972 | May 10, 1972 | 8.21 | (†) |

† Discharge not determined.

GUADALUPE RIVER BASIN

08176600 Threemile Creek near Cuero, Tex. (13)

Location.--Lat 29°02'00", long 97°20'52", DeWitt County, at culvert on Farm Road 2718 and 5.2 miles (8.4 km) southwest of Cuero.

Drainage area.--0.48 mi² (1.24 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.80 mile (1.29 km); slope index, 37 ft/mi (7 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | May 5, 1966 | a6.62 | 22 |
| 1967 | Sept. 21, 1967 | 11.71 | 1,140 |
| 1968 | May 11, 1968 | 8.70 | 116 |
| 1969 | - | <6.32 | <9 |
| 1970 | Mar. 15, 1970 | 6.65 | 22 |
| 1971 | Sept. 11, 1971 | 7.40 | 50 |
| 1972 | May 7, 1972 | 10.42 | 219 |

< Less than amount shown.

a Maximum for period Feb. 9 to Sept. 30, 1966.

GUADALUPE RIVER BASIN

08177600 Olmos Creek tributary at Farm Road 1535,
Shavano Park, Tex. (15)

Location.--Lat 29°34'35", long 98°32'45", Bexar County, at culvert on
Farm Road 1535 at Shavano Park.

Drainage area.--0.33 mi² (0.85 km²).

Gage.--Stage-rainfall (dual-digital) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.33 miles (2.14 km);
slope index, 75.8 ft/mi (14.4 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|--------------|-------------------------|-------------------------------------|
| 1969 | May 16, 1969 | 2.94 | 27 |
| 1970 | May 26, 1970 | 3.05 | 42 |
| 1971 | - | <3.04 | <40 |
| 1972 | May 7, 1972 | 3.75 | 107 |

< Less than amount shown.

GUADALUPE RIVER BASIN

08177700 Olmos Creek at Dresden Drive at
San Antonio, Tex. (15)

Location.--Lat 29°29'56", long 98°30'36", Bexar County, on right bank
30 ft (9 m) downstream from low-water bridge on Dresden Drive at San
Antonio, 0.15 mile (0.24 km) west of intersection of Blanco Road and
Dresden Drive, and 4 miles (6 km) upstream from Olmos Dam.

Drainage area.--21.2 mi² (54.9 km²).

Gage.--Recording. Datum of gage is 726.10 ft (221.32 m) above mean sea
level.

Topographic characteristics.--Length of main stream, 11.63 miles (18.71 km);
slope index, 26.9 ft/mi (5.1 m/km). (Map scale, 1:24,000)

Remarks.--This station operated as research project for runoff from
urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1968 | Sept. 5, 1968 | a4.76 | 154 |
| 1969 | Aug. 24, 1969 | 6.86 | 620 |
| 1970 | Oct. 5, 1969 | 6.53 | 519 |
| 1971 | Aug. 3, 1971 | 6.20 | 282 |
| 1972 | May 7, 1972 | 13.20 | 5,420 |

a Maximum for period June to September 1968.

GUADALUPE RIVER BASIN

08178300 Alazan Creek at St. Cloud Street,
San Antonio, Tex. (15)

Location.--Lat 29°27'29", long 98°32'59", Bexar County, at bridge on
St. Cloud Street at San Antonio.

Drainage area.--3.26 mi² (8.44 km²).

Gage.--Stage-rainfall (dual-digital) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.45 miles (5.55 km);
slope index, 63.7 ft/mi (12.1 m/km). (Map scale, 1:24,000)

Remarks.--This station operated as research project for runoff from
urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1969 | Aug. 24, 1969 | 11.59 | 1,560 |
| 1970 | Oct. 5, 1969 | 11.64 | 1,590 |
| 1971 | Sept. 22, 1971 | 8.0 | 406 |
| 1972 | Apr. 27, 1972 | 11.50 | 1,520 |

GUADALUPE RIVER BASIN

08178600 Panther Springs Creek at Farm Road 2696 near
San Antonio, Tex. (15)

Location.--Lat 29°37'31", long 98°31'06", Bexar County, at culvert
on Farm Road 2696 and 5.5 miles (8.8 km) north of San Antonio.

Drainage area.--9.54 mi² (24.71 km²).

Gage.--Stage-rainfall (dual-digital) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 6.55 miles (10.54 km);
slope index, 41.6 ft/mi (7.9 m/km). (Map scale, 1:24,000)

Remarks.--This station operated as research project for runoff from
urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|--------------|-------------------------|-------------------------------------|
| 1969 | May 16, 1969 | 9.84 | 4,450 |
| 1970 | May 26, 1970 | 5.92 | 245 |
| 1971 | Aug. 4, 1971 | 6.55 | 457 |
| 1972 | May 11, 1972 | 9.53 | 8,610 |

GUADALUPE RIVER BASIN

08178690 Salado Creek tributary at Bitters Road,
San Antonio, Tex. (15)

Location--Lat 29°31'36", long 98°26'25", Bexar County, at culvert
on Bitters Road at San Antonio.

Drainage area--0.26 mi² (0.67 km²).

Gage--Stage-rainfall (dual-digital) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 0.68 mile (1.09 km);
slope index, 29.6 ft/mi (5.6 m/km). (Map scale, 1:24,000)

Remarks--This station operated as research project for runoff from
urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1969 | June 4, 1969 | 3.89 | 46 |
| 1970 | May 26, 1970 | 7.60 | 238 |
| 1971 | Sept. 22, 1971 | 3.87 | 45 |
| 1972 | May 7, 1972 | 7.88 | 253 |

GUADALUPE RIVER BASIN

08178900 Bandera Creek tributary near Bandera, Tex. (15)

Location.--Lat 29°50'51", long 99°06'12", Bandera County, at culvert on Farm Road 689 and 10 miles (16 km) north of Bandera.

Drainage area.--0.27 mi² (0.70 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.92 mile (1.48 km); slope index, 244 ft/mi (46 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 25, 1966 | a6.29 | <80 |
| 1967 | Sept. 15, 1967 | 6.38 | <80 |
| 1968 | Oct. 15, 1967 | 6.98 | 116 |
| 1969 | June 24, 1969 | <6.26 | <80 |
| 1970 | Oct. 12, 1969 | 6.98 | 116 |
| 1971 | Aug. 12, 1971 | 6.48 | <80 |
| 1972 | Oct. 3, 1971 | 6.76 | 88 |

< Less than amount shown.

a Maximum for period Mar. 16 to Sept. 30, 1966.

GUADALUPE RIVER BASIN

08179200 Medina River tributary near Pipe Creek, Tex. (15)

Location.--Lat 29°38'12", long 98°56'13", Bandera County, at culvert on Farm Road 1283 and 6.8 miles (10.9 km) south of Pipe Creek.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 17, 1966 | a4.12 | <30 |
| 1967 | Sept. 3, 1967 | 7.17 | 220 |
| 1968 | Apr. 1, 1968 | 4.59 | 150 |
| 1969 | Apr. 12, 1969 | 4.28 | <30 |
| 1970 | Oct. 5, 1969 | 4.50 | 60 |
| 1971 | Sept. 21, 1971 | 7.83 | 270 |
| 1972 | May 7, 1972 | 9.84 | 420 |

< Less than amount shown.

a Maximum for period Mar. 17 to Sept. 30, 1966.

GUADALUPE RIVER BASIN

08181000 Leon Creek tributary at Farm Road 1604,
San Antonio, Tex. (15)

Location.--Lat 29°35'14", long 98°37'40", Bexar County, at culvert
on Farm Road 1604, at San Antonio.

Drainage area.--5.57 mi² (14.43 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Remarks.--This station operated as research project for runoff from
urban areas.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|--------------|-------------------------|-------------------------------------|
| 1969 | - | <3.04 | <23 |
| 1970 | May 26, 1970 | 7.93 | 1,200 |
| 1971 | Aug. 2, 1971 | 2.95 | 11 |
| 1972 | May 11, 1972 | 6.83 | 901 |

< Less than amount shown.

GUADALUPE RIVER BASIN

08181200 French Creek tributary near Helotes, Tex. (15)

Location.--Lat 29°33'43", long 98°39'26", Bexar County, at culvert on Farm Road 1604 and 2.2 miles (3.5 km) east of Helotes.

Drainage area.--1.08 mi² (2.80 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.07 miles (3.33 km); slope index, 76.8 ft/mi (14.5 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 27, 1966 | a5.91 | 107 |
| 1967 | - | <5.89 | <104 |
| 1968 | Jan. 17, 1968 | 7.03 | 255 |
| 1969 | May 16, 1969 | 5.86 | 54 |
| 1970 | May 26, 1970 | 6.81 | 223 |
| 1971 | June 19, 1971 | 6.92 | 240 |
| 1972 | May 7, 1972 | 10.26 | 1,030 |

< Less than amount shown.

a Maximum for period Mar. 15 to Sept. 30, 1966.

GUADALUPE RIVER BASIN

08181400 Helotes Creek at Helotes, Tex. (15)

Location.--Lat 29°34'42", long 98°41'29", Bexar County, on left bank 13 ft (4 m) downstream from centerline of bridge on State Highway 16, 0.1 mile (0.2 km) northwest of Helotes, and 8.6 miles (13.8 km) upstream from mouth.

Drainage area.--14.9 mi² (38.6 km²).

Gage.--Recording. Datum of gage is 1,014.82 ft (309.32 m) above mean sea level.

Topographic characteristics.--Length of main stream, 9.35 miles (15.04 km); slope index, 49.5 ft/mi (9.4 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1968 | June 2, 1968 | 2.18 | 47 |
| 1969 | May 16, 1969 | 3.10 | 184 |
| 1970 | May 26, 1970 | 5.43 | 3,180 |
| 1971 | Aug. 13, 1971 | 3.24 | 346 |
| 1972 | May 7, 1972 | 5.10 | 2,350 |

a Maximum for period June to September 1968.

GUADALUPE RIVER BASIN

08182400 Calaveras Creek subwatershed No. 6 near
Elmendorf, Tex. (15)

Location.--Lat 29°22'53", long 98°17'34", Bexar County, near center of dam on Chupaderas Creek, tributary to Calaveras Creek, 0.4 mile (0.6 km) north of Sayer, 9.1 miles (14.6 km) north of Elmendorf, and 9.2 miles (14.8 km) upstream from mouth.

Drainage area.--7.01 mi² (18.16 km²).

Gage.--Recording. Datum of gage is 516.06 ft (157.30 m) above mean sea level, datum of 1929 (levels by U.S. Soil Conservation Service).

Remarks.--Peak discharge based on maximum inflow (average for 5-minute intervals), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. There are two recording rain gages, one at the station and one in the watershed. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1957 | Sept. 25, 1957 | 3,750 |
| 1958 | May 3, 1958 | 1,900 |
| 1959 | Apr. 11, 1959 | 266 |
| 1960 | Oct. 4, 1959 | 443 |
| 1961 | June 18, 1961 | 827 |
| 1962 | Nov. 13, 1961 | 385 |
| 1963 | Apr. 4, 1963 | 13 |
| 1964 | Feb. 3, 1964 | 1,810 |
| 1965 | May 18, 1965 | 3,330 |
| 1966 | Dec. 3, 1965 | 501 |
| 1967 | Sept. 22, 1967 | 1,500 |
| 1968 | Jan. 18, 1968 | 4,270 |
| 1969 | Feb. 14, 1969 | 327 |
| 1970 | May 28, 1970 | 725 |
| 1971 | Aug. 3, 1971 | 994 |
| 1972 | May 10, 1972 | 3,520 |

GUADALUPE RIVER BASIN

08187000 Escondido Creek subwatershed No. 1
near Kenedy, Tex. (16)

Location.--Lat 28°46'41", long 97°53'41", Karnes County, near center of dam on unnamed fork of Panther Creek, 900 ft (274 m) upstream from State Highway 72, and 3.9 miles (6.3 km) southwest of Kenedy.

Drainage area.--3.29 mi² (8.52 km²).

Gage.--Recording. Datum of gage is 350.00 ft (107.00 m) above mean sea level, datum of 1929 (levels by U.S. Soil Conservation Service).

Remarks.--Peaks are based on maximum inflow (average for 5- or 15-minute interval), computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. No adjustment made for reservoir losses. There are two recording rain gages located in the watershed, one of which is at the station. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1955 | Aug. 11, 1955 | 2,100 |
| 1956 | June 19, 1956 | 486 |
| 1957 | May 27, 1957 | a1,800 |
| 1958 | May 3, 1958 | 1,700 |
| 1959 | Sept. 29, 1959 | 181 |
| 1960 | July 17, 1960 | a817 |
| 1961 | Oct. 25, 1960 | 4,990 |
| 1962 | June 1, 1962 | 745 |
| 1963 | Nov. 27, 1962 | 1,300 |
| 1964 | Aug. 8, 1964 | 809 |
| 1965 | Jan. 21, 1965 | 1,550 |
| 1966 | Oct. 18, 1965 | 157 |
| 1967 | Sept. 21, 1967 | 2,910 |
| 1968 | May 7, 1968 | 1,640 |
| 1969 | May 4, 1969 | 401 |
| 1970 | May 31, 1970 | 605 |
| 1971 | Sept. 10, 1971 | 407 |
| 1972 | Sept. 26, 1972 | 428 |

a Not adjusted for rainfall on water surface.

GUADALUPE RIVER BASIN

08187900 Escondido Creek subwatershed No. 11 (Dry Escondido Creek) near Kenedy, Tex. (16)

Location.--Lat 28°51'39", long 97°50'39", Karnes County, near center of dam on Dry Escondido Creek, 0.5 mile (0.8 km) upstream from bridge on Farm Road 792, 3 miles (5 km) north of Kenedy, and 5 miles (8 km) upstream from Escondido Creek.

Drainage area.--8.43 mi² (21.83 km²).

Gage.--Water-stage recorder. Datum of gage is 285.12 ft (86.90 m) above mean sea level, datum of 1929.

Remarks.--Peak discharge based on maximum inflow (average for 5- or 15-minute intervals) computed from outflow and change in reservoir contents, adjusted for rainfall on the reservoir surface during time of peak inflow. There are two recording rain gages located in the watershed, one of which is at the station. Tabulations of significant storm rainfall and runoff data are on file in the U.S. Geological Survey District office.

Annual maximum discharge

| <u>Water year</u> | <u>Date</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------------------|
| 1958 | Sept. 22, 1958 | 1,540 |
| 1959 | June 5, 1959 | 122 |
| 1960 | Oct. 4, 1959 | 54 |
| 1961 | Oct. 25, 1960 | 750 |
| 1962 | June 2, 1962 | 722 |
| 1963 | June 26, 1962 | 1,190 |
| 1964 | Feb. 3, 1964 | 435 |
| 1965 | May 19, 1965 | 4,950 |
| 1966 | Sept. 17, 1966 | 334 |
| 1967 | Sept. 21, 1967 | 8,030 |
| 1968 | May 12, 1968 | 765 |
| 1969 | May 4, 1969 | 175 |
| 1970 | June 1, 1970 | 1,310 |
| 1971 | Sept. 12, 1971 | 36 |
| 1972 | May 14, 1972 | 77 |

GUADALUPE RIVER BASIN

08188400 Baugh Creek at Goliad, Tex. (16)

Location.--Lat 28°39'50", long 97°25'05", Goliad County, at culvert
on U.S. Highway 59 and 1.5 miles (2.4 km) west of Goliad.

Drainage area.--3.02 mi² (7.82 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.85 miles (6.19 km);
slope index, 32 ft/mi (6 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Aug. 20, 1966 | 5.50 | 360 |
| 1967 | Sept. 21, 1967 | 7.73 | 1,000 |
| 1968 | Oct. 15, 1967 | 5.79 | 460 |
| 1969 | Apr. 11, 1969 | 4.66 | 250 |
| 1970 | June 25, 1970 | 5.54 | 150 |
| 1971 | Sept. 10, 1971 | 5.38 | 130 |
| 1972 | Apr. 27, 1972 | 11.17 | 3,510 |

ARANSAS RIVER BASIN

08189600 Olmos Creek tributary near Skidmore, Tex. (16)

Location.--Lat 28°15'27", long 97°44'15", Bee County, at culvert on Farm Road 797 and 3.4 miles (5.5 km) west of Skidmore.

Drainage area.--0.58 mi² (1.50 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.4 miles (2.3 km); slope index, 8.57 ft/mi (1.62 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 25, 1966 | a8.00 | 235 |
| 1967 | Sept. 22, 1967 | 8.71 | 325 |
| 1968 | May 11, 1968 | 9.01 | b629 |
| 1969 | Oct. 3, 1968 | 6.56 | 80 |
| 1970 | May 24, 1970 | 6.52 | 78 |
| 1971 | Sept. 12, 1971 | 9.01 | b629 |
| 1972 | May 10, 1972 | 9.27 | 902 |

a Maximum for period Feb. 8 to Sept. 30, 1966.

b Not previously published.

NUECES RIVER BASIN

08194550 Plant Creek near Tilden, Tex. (15)

Location.--Lat 28°24'04", long 98°32'58", McMullen County, at culvert on State Highway 16 and 4 miles (6 km) south of Tilden.

Drainage area.--0.36 mi² (0.93 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.66 mile (1.1 km); slope index, 77.6 ft/mi (14.7 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Nov. 11, 1965 | 7.30 | 32 |
| 1967 | Sept. 22, 1967 | 10.06 | 220 |
| 1968 | May 7, 1968 | 7.36 | 34 |
| 1969 | Apr. 11, 1969 | <7.28 | <5 |
| 1970 | May 15, 1970 | 7.79 | 60 |
| 1971 | Sept. 11, 1971 | 7.60 | 44 |
| 1972 | Sept. 26, 1972 | 8.93 | 144 |

< Less than amount shown.

NUECES RIVER BASIN

08198900 East Elm Creek near Sabinal, Tex. (15)

Location.--Lat 29°18'36", long 99°23'50", Medina County, at bridge on U.S. Highway 90 and 4 miles (6 km) east of Sabinal.

Drainage area.--10.58 mi² (27.40 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 7.8 miles (12.6 km); slope index, 16.9 ft/mi (3.2 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1967 | Sept. 3, 1967 | al.09 | b6.7 |
| 1968 | Jan. 19, 1968 | 1.81 | 150 |
| 1969 | May 3, 1969 | 1.89 | 195 |
| 1970 | May 15, 1970 | 2.29 | 400 |
| 1971 | Aug. 13, 1971 | 7.18 | 5,600 |
| 1972 | Aug. 10, 1972 | 1.86 | 175 |

a Maximum for period Dec. 22, 1966, to Sept. 30, 1967.

NUECES RIVER BASIN

08200900 Bone Creek near Hondo, Tex. (15)

Location.--Lat 29°33'16", long 99°06'12", Medina County, at culvert on Farm Road 689 and 14 miles (23 km) north of Hondo.

Drainage area.--0.19 mi² (0.49 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.42 mile (0.68 km); slope index, 291 ft/mi (55 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 25, 1966 | 3.22 | <10 |
| 1967 | Sept. 22, 1967 | 3.97 | 29 |
| 1968 | Jan. 19, 1968 | 3.49 | 15 |
| 1969 | May 16, 1969 | 4.14 | 36 |
| 1970 | Oct. 5, 1969 | 5.76 | 102 |
| 1971 | Aug. 12, 1971 | 9.77 | 350 |
| 1972 | May 6, 1972 | 5.29 | 82 |

< Less than amount shown.

NUECES RIVER BASIN

08203500 Leona River tributary near Uvalde, Tex. (22)

Location--Lat 29°17'30", long 99°45'31", Uvalde County, at culvert on U.S. Highway 83 and 5.2 miles (8.4 km) north of Uvalde.

Drainage area--1.21 mi² (3.13 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 2.03 miles (3.27 km); slope index, 20.4 ft/mi (3.9 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 13, 1966 | a6.67 | <20 |
| 1967 | Apr. 13, 1967 | 6.69 | <20 |
| 1968 | - | <6.65 | <20 |
| 1969 | - | <6.65 | <20 |
| 1970 | Oct. 5, 1969 | 6.85 | 39 |
| 1971 | Aug. 12, 1971 | 6.80 | 34 |
| 1972 | - | <6.65 | <20 |

< Less than amount shown.

a Maximum for period Feb. 3 to Sept. 30, 1966.

NUECES RIVER BASIN

08207200 Rutledge Hollow Creek at Poteet, Tex. (15)

Location.--Lat 29°02'29", long 98°34'41", Atascosa County, at culvert on Farm Road 476 (School Road) at Poteet.

Drainage area.--9.33 mi² (24.16 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 6.25 miles (10.06 km); slope index, 27.6 ft/mi (5.2 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | Sept. 22, 1967 | 8.69 | 1,800 |
| 1968 | May 11, 1968 | 8.95 | 2,300 |
| 1969 | Nov. 30, 1968 | 4.31 | 52 |
| 1970 | May 28, 1970 | 5.30 | 215 |
| 1971 | Aug. 12, 1971 | 8.56 | 1,650 |
| 1972 | May 6, 1972 | 4.68 | 96 |

NUECES RIVER BASIN

08207700 Lucas Creek near Pleasanton, Tex. (15)

Location.--Lat 29°00'52", long 98°22'47", Atascosa County, at bridge on State Highway 97 and 8 miles (13 km) northeast of Pleasanton.

Drainage area.--32.8 mi² (85.0 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 10.7 miles (17.2 km); slope index, 13.6 ft/mi (2.6 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | Sept. 22, 1967 | 12.97 | 2,970 |
| 1968 | May 11, 1968 | 13.25 | 3,500 |
| 1969 | May 12, 1969 | 11.56 | 1,550 |
| 1970 | May 28, 1970 | 11.67 | 1,520 |
| 1971 | Aug. 12, 1971 | 11.75 | 1,650 |
| 1972 | Oct. 5, 1971 | 10.05 | 650 |

PETRONILLA CREEK BASIN

08211550 Pintas Creek tributary near Banquete, Tex. (16)

Location.--Lat 27°42'36", long 97°49'57", Nueces County, at culvert on Farm Road 666 and 7 miles (11 km) south of Banquete.

Drainage area.--3.28 mi² (8.50 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 3.6 miles (5.8 km); slope index, 6.87 ft/mi (1.3 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | May 5, 1966 | a8.43 | 84 |
| 1967 | Sept. 21, 1967 | 10.40 | 1,300 |
| 1968 | July 11, 1968 | 8.07 | 37 |
| 1969 | Feb. 13, 1969 | 8.93 | 130 |
| 1970 | Aug. 3, 1970 | <7.90 | <5 |
| 1971 | Sept. 12, 1971 | 10.10 | 568 |
| 1972 | Oct. 16, 1971 | 10.10 | 568 |

< Less than amount shown.

a Maximum for period Mar. 8 to Sept. 30, 1966.

SAN FERNANDO CREEK BASIN

08212300 Tranquitas Creek at Kingsville, Tex. (16)

Location.--Lat 27°31'33", long 97°52'02", Kleberg County, at bridge on U.S. Highway 77, Business Route at Kingsville, 4.9 miles (7.9 km) upstream from San Fernando Creek, and 5.9 miles (9.5 km) downstream from Tranquitas Dam.

Drainage area.--48.5 mi² (125.6 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Remarks.--Stage only station.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | May 16, 1965 | a3.9 | - |
| 1966 | Apr. 8, 1966 | 3.6 | - |
| 1967 | Sept. 23, 1967 | 4.51 | - |
| 1968 | May 6, 1968 | 3.36 | - |
| 1969 | Oct. 4, 1968 | 2.53 | - |
| 1970 | May 13, 1970 | 3.73 | - |
| 1971 | Aug. 5, 1971 | 2.96 | - |
| 1972 | Feb. 29, 1972 | 4.16 | - |

a Maximum for period April to September 1965.

SAN FERNANDO CREEK BASIN

08212320 North Las Animas Creek tributary
near Freer, Tex. (21)

Location.--Lat 27°47'07", long 98°37'03", Duval County, at culvert
on State Highway 16 and 6.8 miles (10.9 km) south of Freer.

Drainage area.--0.07 mi² (0.18 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 0.40 mile (0.64 km);
slope index, 56.7 ft/mi (10.7 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1969 | - | <3.74 | a<20 |
| 1970 | June 14, 1970 | <3.74 | a<20 |
| 1971 | Sept. 11, 1971 | 4.61 | 52 |
| 1972 | May 9, 1972 | 4.81 | 60 |

< Less than amount shown.
a Revised.

RIO GRANDE BASIN

08365600 McKelligon Canyon at El Paso, Tex. (24)

Location.--Lat 31°49'20", long 106°28'09", El Paso County, on left bank 120 ft (37 m) south of McKelligon Canyon Drive, 0.2 mile (0.3 km) west of Alabama Avenue, 0.5 mile (0.8 km) south of crest of Sugarloaf Mountain, 1.6 miles (2.6 km) west of U.S. Highway 54, and 4.5 miles (7.2 km) north of El Paso Post Office.

Drainage area.--2.3 mi² (6.0 km²), approximately.

Gage.--Recording. Altitude of gage is 4,257.33 ft (1,297.63 m) above mean sea level (levels by city of El Paso).

Topographic characteristics.--Length of main stream, 3.2 miles (5.1 km); slope index, 440 ft/mi (83 m/km). (Map scale, 1:24,000)

Remarks.--No flow except Sept. 11, 12, 1958. Floodflow controlled by four small reservoirs upstream, with a total capacity of about 95 acre-feet (117,135 m³).

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1958 | Sept. 11, 1958 | - | a76 |
| 1959 | | | 0 |
| 1960 | | | 0 |
| 1961 | | | 0 |
| 1962 | | | 0 |
| 1963 | | | 0 |
| 1964 | | | 0 |
| 1965 | | | 0 |
| 1966 | | | 0 |
| 1967 | | | 0 |
| 1968 | | | 0 |
| 1969 | | | 0 |
| 1970 | | | 0 |
| 1971 | | | 0 |
| 1972 | | | 0 |

a Maximum for period June to September 1958.

RIO GRANDE BASIN

08365800 Government Ditch at El Paso, Tex. (24)

Location--Lat 31°47'02", long 106°26'04", El Paso County, at intersection of Montana and Houston Streets and 2 miles (3 km) northeast of the business center of El Paso.

Drainage area--6.4 mi² (16.6 km²), approximately.

Gage--Recording. Altitude of gage is 3,740 ft (1,140 m), from topographic map.

Topographic characteristics--Length of main stream, 3.5 miles (5.6 km); slope index, 106 ft/mi (20 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1958 | Sept. 11, 1958 | a2.64 | 550 |
| 1959 | Aug. 5, 1959 | .70 | 58 |
| 1960 | July 14, 1960 | .84 | 78 |
| 1961 | Sept. 8, 1961 | 2.18 | 374 |
| 1962 | Sept. 2, 1962 | 1.93 | 299 |
| 1963 | Aug. 18, 1963 | .66 | 53 |
| 1964 | Sept. 11, 1964 | 2.06 | 338 |
| 1965 | Sept. 6, 1965 | 1.44 | 179 |
| 1966 | Sept. 23, 1966 | 2.03 | 329 |
| 1967 | July 29, 1967 | 1.46 | 184 |
| 1968 | July 6, 1968 | 2.13 | 359 |
| 1969 | May 22, 1969 | .86 | 81 |
| 1970 | July 25, 1970 | 1.35 | 162 |
| 1971 | July 2, 1971 | 2.60 | 540 |
| 1972 | July 19, 1972 | 2.35 | 430 |

a Maximum for period June to September 1958.

RIO GRANDE BASIN

08370200 Camp Rice Arroyo tributary near
Fort Hancock, Tex. (24)

Location.--Lat 31°17'51", long 105°48'52", Hudspeth County, at culvert
on Interstate Highway 10 and 1.6 miles (2.6 km) east of Fort Hancock.

Drainage area.--2.35 mi² (6.09 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 4.5 miles (7.2 km);
slope index, 74 ft/mi (14 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | June 27, 1966 | a5.35 | 62 |
| 1967 | Sept. 17, 1967 | 6.31 | 165 |
| 1968 | Aug. 22, 1968 | 6.03 | 130 |
| 1969 | Aug. 22, 1969 | <5.06 | bc2 |
| 1970 | Aug. 4, 1970 | 5.59 | 85 |
| 1971 | Aug. 31, 1971 | <5.06 | bc5 |
| 1972 | Sept. 14, 1972 | 5.73 | 98 |

< Less than amount shown.

a Maximum for period April to September 1966.

b Estimated.

c Revised.

RIO GRANDE BASIN

08370800 Wildhorse Creek tributary near Van Horn, Tex. (24)

Location.--Lat 31°02'55", long 104°40'12", Culberson County, at culvert on U.S. Highway 80 and 9.5 miles (15.3 km) east of Van Horn.

Drainage area.--0.74 mi² (1.92 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 2.28 miles (3.67 km); slope index, 100 ft/mi (19 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Aug. 22, 1966 | a5.38 | 190 |
| 1967 | June 30, 1967 | <4.37 | bc5 |
| 1968 | July 6, 1968 | <4.37 | bc5 |
| 1969 | July 9, 1969 | 4.86 | 104 |
| 1970 | June 7, 1970 | 5.81 | 260 |
| 1971 | July 24, 1971 | 4.87 | 105 |
| 1972 | Oct. 12, 1971 | <4.37 | b5 |

< Less than amount shown.

a Maximum for period April to September 1966.

b Estimated.

c Revised.

RIO GRANDE BASIN

08377600 Rio Grande tributary near Langtry, Tex. (22)

Location.--Lat 29°48'17", long 101°29'01", Val Verde County, at culvert on U.S. Highway 90 and 4.7 miles (7.6 km) east of Langtry.

Drainage area.--0.32 mi² (0.83 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.0 mile (1.6 km); slope index, 133 ft/mi (25 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Sept. 9, 1966 | a7.05 | 120 |
| 1967 | July 20, 1967 | <4.18 | bc5 |
| 1968 | July 2, 1968 | 8.08 | 59 |
| 1969 | Apr. 17, 1969 | 9.60 | 141 |
| 1970 | Sept. 25, 1970 | 8.10 | 59 |
| 1971 | Aug. 15, 1971 | 8.92 | 98 |
| 1972 | Sept. 11, 1972 | 8.36 | 70 |

< Less than amount shown.

a Maximum for period January to September 1966.

b Estimated.

c Revised.

RIO GRANDE BASIN

08407800 Delaware River tributary near Orla, Tex. (24)

Location.--Lat 31°55'46", long 104°28'52", Reeves County, at culvert on State Highway 652 and 36 miles (58 km) west of Orla.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Aug. 21, 1966 | 11.52 | 1,700 |
| 1967 | - | <3.11 | a0 |
| 1968 | - | <3.11 | a0 |
| 1969 | Sept. 22, 1969 | 4.17 | a25 |
| 1970 | Oct. 21, 1969 | 4.46 | a32 |
| 1971 | Aug. 15, 1971 | 5.26 | 54 |
| 1972 | - | <3.11 | 0 |

< Less than amount shown.
a Revised.

RIO GRANDE BASIN

08436800 Courtney Creek tributary near
Fort Stockton, Tex. (06)

Location.--Lat 31°00'28", long 103°04'20", Pecos County, at culvert
on Farm Road 1776, 0.2 mile (0.3 km) north of U.S. Highway 285, and
14 miles (23 km) northwest of Fort Stockton.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | June 12, 1966 | a2.82 | 45 |
| 1967 | June 14, 1967 | 2.49 | 31 |
| 1968 | Aug. 30, 1968 | 2.79 | 44 |
| 1969 | Apr. 12, 1969 | 2.28 | 23 |
| 1970 | Oct. 6, 1969 | 2.91 | 50 |
| 1971 | May 28, 1971 | 2.44 | 29 |
| 1972 | May 29, 1972 | 4.16 | 116 |

a Maximum for period January to September 1966.

RIO GRANDE BASIN

08437550 Lake Leon tributary near Fort Stockton, Tex. (06)

Location.--Lat 30°54'04", long 103°02'50", Pecos County, at culvert on U.S. Highway 290 and 10 miles (16 km) west of Fort Stockton.

Drainage area.--1.59 mi² (4.12 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.6 miles (2.6 km); slope index, 45.8 ft/mi (8.7 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 24, 1966 | a7.25 | 740 |
| 1967 | May 29, 1967 | 8.01 | 980 |
| 1968 | Aug. 30, 1968 | 6.27 | 360 |
| 1969 | July 22, 1969 | 5.51 | 230 |
| 1970 | Oct. 27, 1969 | 6.16 | 170 |
| 1971 | Aug. 15, 1971 | 7.37 | 770 |
| 1972 | Sept. 20, 1972 | 5.31 | 235 |

a Maximum for period January to September 1966.

RIO GRANDE BASIN

08437650 Monument Draw tributary at Pyote, Tex. (06)

Location.--Lat 31°33'33", long 103°07'43", Ward County, at culvert on Spur 247 and 2.1 miles (3.4 km) northwest of Pyote.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | July 12, 1966 | a3.22 | 30 |
| 1967 | July 20, 1967 | 1.71 | 5.5 |
| 1968 | cJuly 2, 1968 | c<1.10 | b1 |
| 1969 | Apr. 12, 1969 | 2.02 | 9.4 |
| 1970 | June 22, 1970 | 1.39 | c2 |
| 1971 | Aug. 15, 1971 | 2.37 | 15 |
| 1972 | - | - | 0 |

< Less than amount shown.

a Maximum for period January to September 1966.

b Estimated.

c Revised.

RIO GRANDE BASIN

08444400 Three Mile Mesa Creek near
Fort Stockton, Tex. (06)

Location.--Lat 30°50'16", long 102°50'26", Pecos County, at culvert
on State Highway 285 and 4.6 miles (7.4 km) southeast of Fort
Stockton.

Drainage area.--1.04 mi² (2.69 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.95 miles (3.14 km);
slope index, 87 ft/mi (16 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1965 | June 10, 1965 | a2.84 | 76 |
| 1966 | Apr. 24, 1966 | 2.71 | 69 |
| 1967 | May 29, 1967 | 2.43 | 45 |
| 1968 | Sept. 21, 1968 | 2.88 | 84 |
| 1969 | Apr. 12, 1969 | 2.77 | 74 |
| 1970 | May 14, 1970 | 3.02 | 96 |
| 1971 | Aug. 15, 1971 | 3.21 | b140 |
| 1972 | Sept. 20, 1972 | 2.79 | 90 |

a Maximum for period June to September 1965.

b Not previously published.

RIO GRANDE BASIN

08447200 Howards Creek tributary near Ozona, Tex. (07)

Location.--Lat 30°41'18", long 101°20'51", Crockett County, at culvert on U.S. Highway 290 and 8.7 miles (14.0 km) west of Ozona.

Drainage area.--7.53 mi² (19.5 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 7.75 miles (12.47 km); slope index, 39.6 ft/mi (7.5 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | June 13, 1967 | a4.20 | c260 |
| 1968 | May 11, 1968 | 3.32 | c84 |
| 1969 | Apr. 12, 1969 | 4.95 | c590 |
| 1970 | Oct. 27, 1969 | <2.97 | bc20 |
| 1971 | Aug. 1, 1971 | 6.54 | 1,460 |
| 1972 | Sept. 20, 1972 | 3.42 | 100 |

< Less than amount shown.

a Maximum for period Jan. 11 to Sept. 30, 1967.

b Estimated.

c Revised.

RIO GRANDE BASIN

08448750 Dry Devils River tributary near Sonora, Tex. (07)

Location.--30°36'13", long 100°38'20", Sutton County, at culvert on
U.S. Highway 277, 1.9 miles (3.1 km) north of Sonora.

Drainage area.--

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1971 | Aug. 15, 1971 | 11.65 | 145 |
| 1972 | Aug. 13, 1972 | 16.72 | 465 |

RIO GRANDE BASIN

08449470 Rough Canyon tributary near Del Rio, Tex. (22)

Location.--Lat 29°35'50", long 100°51'51", Val Verde County, at culvert on U.S. Highway 277 and 16 miles (26 km) north of Del Rio.

Drainage area.--7.90 mi² (20.5 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 6.3 miles (10.1 km); slope index, 44.2 ft/mi (8.4 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1967 | Sept. 2, 1967 | 6.80 | 710 |
| 1968 | Apr. 18, 1968 | 5.80 | 240 |
| 1969 | Oct. 3, 1968 | 4.13 | 115 |
| 1970 | Oct. 4, 1969 | 12.70 | 2,800 |
| 1971 | Aug. 11, 1971 | 13.08 | 2,950 |
| 1972 | Sept. 11, 1972 | 24.19 | 8,540 |

RIO GRANDE BASIN

08449600 Evans Creek tributary near Del Rio, Tex. (22)

Location.--Lat 29°33'00", long 101°04'58", Val Verde County, at culvert on U.S. Highway 90 and 16 miles (26 km) northwest of Del Rio.

Drainage area.--0.39 mi² (1.01 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.1 miles (1.8 km); slope index, 112 ft/mi (21 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 25, 1966 | a3.49 | 48 |
| 1967 | Oct. 5, 1966 | 2.81 | 17 |
| 1968 | June 17, 1968 | 3.95 | 78 |
| 1969 | Apr. 11, 1969 | 4.76 | 138 |
| 1970 | Oct. 27, 1969 | 4.93 | 154 |
| 1971 | Aug. 11, 1971 | 6.73 | 313 |
| 1972 | Aug. 13, 1972 | 5.98 | 254 |

a Maximum for period January to September 1966.

RIO GRANDE BASIN

08453100 Zorro Creek near Del Rio, Tex. (22)

Location.--Lat 29°19'52", long 100°49'54", Val Verde County, at culvert on U.S. Highway 277 and 4.7 miles (7.6 km) southeast of Del Rio.

Drainage area.--10.02 mi² (25.95 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 7.9 miles (12.7 km); slope index, 18.4 ft/mi (3.5 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | Apr. 24, 1966 | a9.53 | 800 |
| 1967 | Sept. 17, 1967 | <7.28 | <100 |
| 1968 | - | <7.28 | <100 |
| 1969 | Apr. 11, 1969 | 11.85 | 2,000 |
| 1970 | Oct. 5, 1969 | 8.30 | 300 |
| 1971 | Aug. 12, 1971 | 7.50 | 400 |
| 1972 | - | <7.28 | <100 |

< Less than amount shown.

a Maximum for period Feb. 2 to Sept. 30, 1966.

RIO GRANDE BASIN

08454900 East Perdido Creek near Brackettville, Tex. (22)

Location.--Lat 29°20'50", long 100°34'32", Kinney County, at culvert on U.S. Highway 90 and 9.7 miles (15.6 km) northwest of Brackettville.

Drainage area.--3.39 mi² (8.78 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 4.15 miles (6.68 km); slope index, 24.1 ft/mi (4.6 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 24, 1966 | 6.84 | 200 |
| 1967 | - | <5.29 | <30 |
| 1968 | - | <5.29 | <30 |
| 1969 | Apr. 12, 1969 | 7.47 | 234 |
| 1970 | Oct. 27, 1969 | 5.72 | 57 |
| 1971 | Aug. 12, 1971 | 10.51 | 630 |
| 1972 | Aug. 10, 1972 | 5.68 | 55 |

< Less than amount shown.

RIO GRANDE BASIN

08459600 Arroyo San Bartolo at Zapata, Tex. (21)

Location--Lat 26°55'39", long 99°17'20", Zapata County, at culvert on U.S. Highway 83 and 1.0 mile (1.6 km) north of Zapata.

Drainage area--0.61 mi² (1.58 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 1.1 miles (1.8 km); slope index, 119 ft/mi (23 m/km). (Map scale, 1:62,500)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 14, 1966 | a5.64 | 550 |
| 1967 | May 16, 1967 | 10.9 | 570 |
| 1968 | Apr. 29, 1968 | 2.40 | 118 |
| 1969 | May 11, 1969 | 8.41 | 620 |
| 1970 | May 23, 1970 | 6.38 | 420 |
| 1971 | Aug. 5, 1971 | 5.22 | 300 |
| 1972 | Aug. 16, 1972 | 4.67 | 300 |

a Maximum for period Feb. 17 to Sept. 30, 1966.

RIO GRANDE BASIN

08466100 Rio Grande tributary near
Rio Grande City, Tex. (21)

Location.--Lat 26°18'58", long 98°39'45", Starr County, at culvert
on U.S. Highway 83 and 10.7 miles (17.2 km) southeast of Rio
Grande City.

Drainage area.--1.20 mi² (3.11 km²).

Gage.--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics.--Length of main stream, 1.23 miles (1.98 km);
slope index, 62.4 ft/mi (11.8 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|----------------|-------------------------|-------------------------------------|
| 1966 | June 19, 1966 | a4.61 | 100 |
| 1967 | Sept. 22, 1967 | 4.79 | 125 |
| 1968 | - | <3.99 | <50 |
| 1969 | - | <3.99 | <50 |
| 1970 | Aug. 23, 1970 | 4.67 | 108 |
| 1971 | Sept. 12, 1971 | 4.34 | 64 |
| 1972 | May 3, 1972 | 4.72 | 115 |

< Less than amount shown.

a Maximum for period Feb. 16 to Sept. 30, 1966.

RIO GRANDE BASIN

08466200 Rio Grande tributary near
Sullivan City, Tex. (21)

Location--Lat 26°17'12", long 98°35'16", Starr County, at culvert on
U.S. Highway 83 and 1.6 miles (2.6 km) northwest of Sullivan City.

Drainage area--0.40 mi² (1.04 km²).

Gage--Stage-rainfall (S-R) recorder and crest-stage gage.

Topographic characteristics--Length of main stream, 1.4 miles (2.3 km);
slope index, 39.4 ft/mi (7.5 m/km). (Map scale, 1:24,000)

Annual maximum stage and discharge

| <u>Water year</u> | <u>Date</u> | <u>Gage height (ft)</u> | <u>Discharge (ft³/s)</u> |
|-------------------|---------------|-------------------------|-------------------------------------|
| 1966 | Apr. 19, 1966 | a6.63 | 20 |
| 1967 | Aug. 24, 1967 | 7.42 | 47 |
| 1968 | June 19, 1968 | 6.69 | 22 |
| 1969 | June 3, 1969 | 8.23 | 81 |
| 1970 | May 15, 1970 | 7.16 | 37 |
| 1971 | Feb. 25, 1971 | 8.69 | 100 |
| 1972 | Apr. 27, 1972 | 10.43 | 195 |

a Maximum for period Feb. 16 to Sept. 30, 1966.