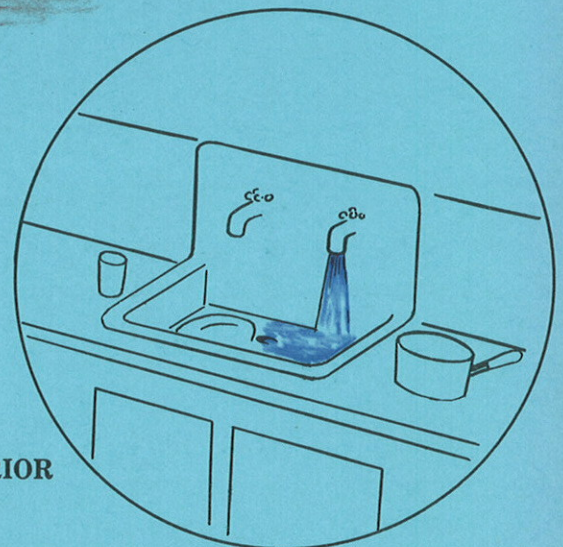
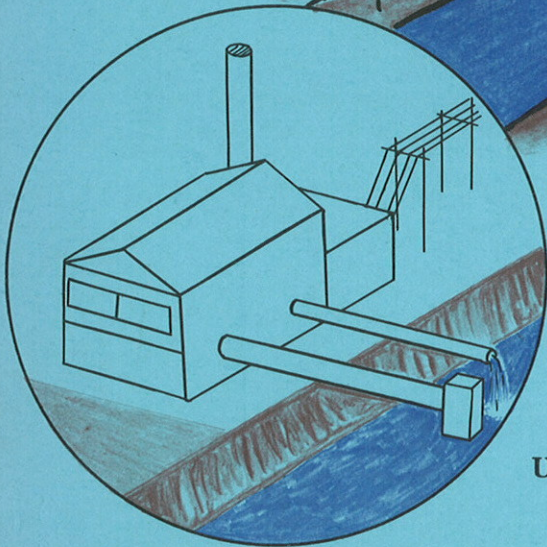
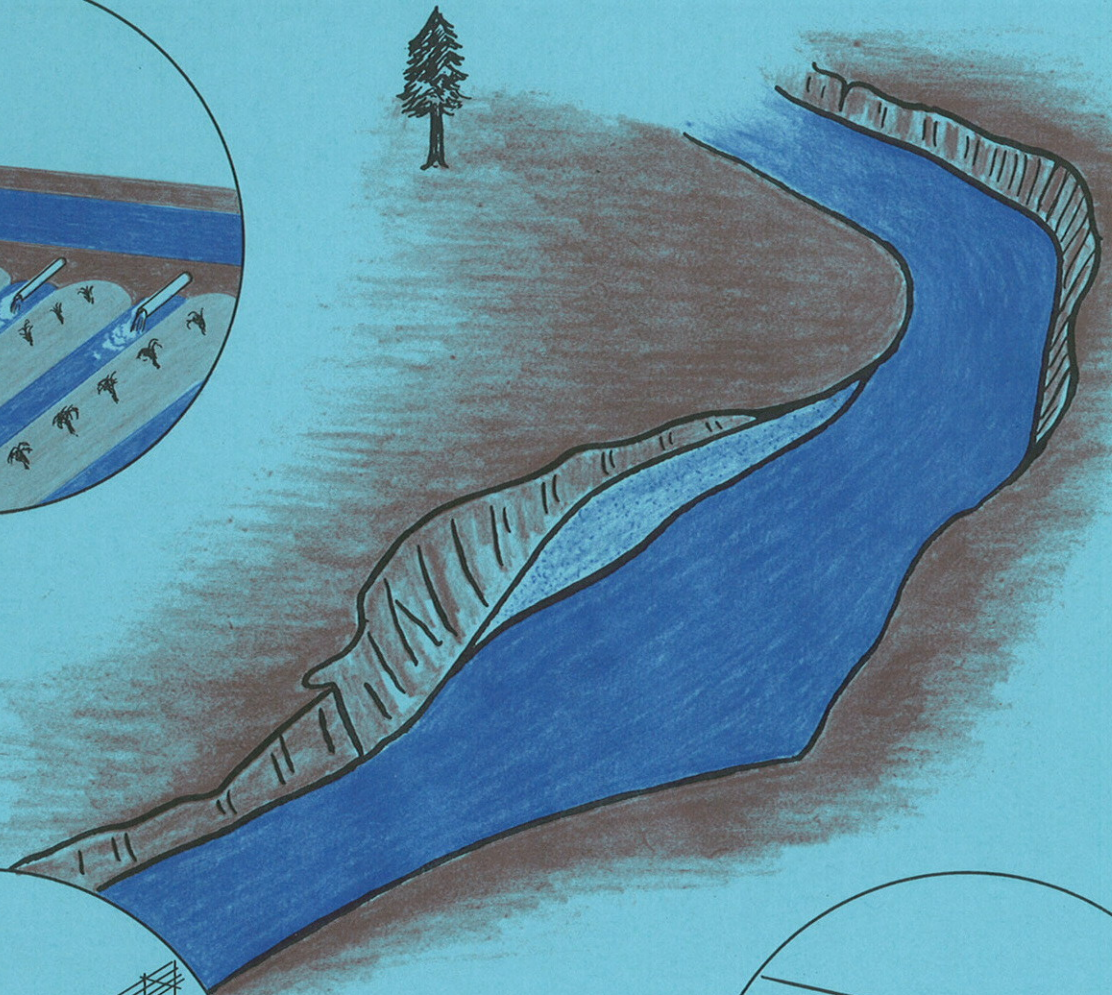
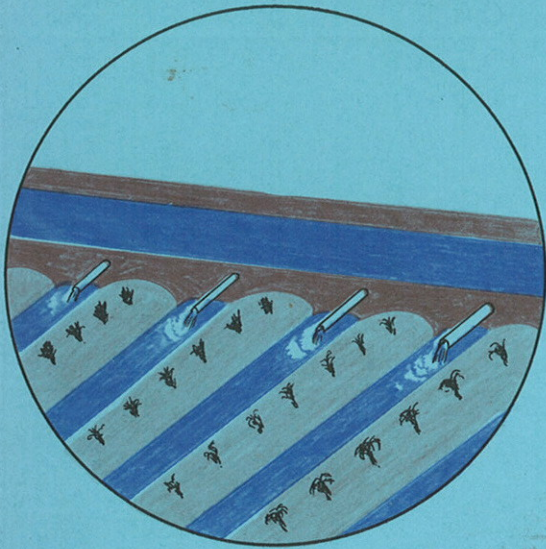


# Water Supply Characteristics of Louisiana Streams

TECHNICAL REPORT NUMBER 1



Prepared by  
U. S. DEPARTMENT OF INTERIOR  
Geological Survey  
in cooperation with

LOUISIANA DEPARTMENT OF PUBLIC WORKS

APRIL, 1963



STATE OF LOUISIANA

WATER-SUPPLY CHARACTERISTICS  
OF  
LOUISIANA STREAMS

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DEPARTMENT OF PUBLIC WORKS

April 1963

STATE OF LOUISIANA

Department of Public Works

Claude Kirkpatrick, Director  
C. T. Watts, Assistant Director  
Hu. B. Meyers, Chief Engineer  
C. K. Oakes, Hydraulic Engineer  
E. J. Taylor, Hydraulic Engineer

WATER-SUPPLY CHARACTERISTICS  
OF  
LOUISIANA STREAMS

By

Leland V. Page, Hydraulic Engineer  
U.S. Geological Survey

Prepared cooperatively by the

United States Geological Survey  
T. B. Nolan, Director  
L. B. Leopold, Chief Hydraulic Engineer  
Melvin Williams, Chief, Surface Water Branch  
F. N. Hansen, District Engineer

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WATER-SUPPLY CHARACTERISTICS  
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LOUISIANA STREAMS

by L. V. Page

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ABSTRACT

Increasing demands for municipal and industrial water supplies, and supplies for irrigation generate a real need for factual information on the water-supply characteristics of Louisiana streams.

The data on flow-duration curves, low-flow frequency, and draft-storage frequency presented in this report have been adjusted by comparison with longer records in the State so as to represent more nearly the flow characteristics to be expected over a long period of years in the future. Because of this adjustment to a common reference period, the observed differences between streams are less likely to be due to differences in the periods of record.

The variability of flows in Louisiana streams with respect to both time and place is very great. A measure of the variability can be visualized by a variability index. The variability index values for the high yielding small streams in the southeastern part of Louisiana, range from 0.3 to 1.8, and the larger main stem streams have values ranging from about 0.6 to 0.9. The median annual low flows for 214 stations range from zero to 0.57 cfs per square mile. Unit low flows vary widely between adjacent streams in all parts of the State but tend to increase from North to South.

INTRODUCTION

The abundant rainfall over the State coupled with the excess waters from the interior part of the Nation that flow through the State makes an abundance of water available to Louisiana not equaled in any other State in the Union. But the volume of water needed at a particular time and place is not always easily available.

Because of streamflow variability, total volume or average rate of flow in streams is not adequate means on which to base developments. The quantity of water available at a particular place is not always adequate for a specific need. Low-flow frequency and duration data help define the water supply available at a particular location and draft-storage-frequency data define the extent to which it is possible to augment low flows by use of storage reservoirs.

Purpose and Scope

The purpose of this report is to present information on the water-supply characteristics of Louisiana streams for use in guiding the development and management of surface-water supplies. This information is



furnished through the media of flow-duration curves, low-flow frequency curves, storage-requirement curves, and also presents a method of estimating draft-storage relations. This report is the first to present low-flow and water-supply statistics for all sites in the State where the necessary basic observations have been made. Rather complete data are included for continuous-record gaging stations and more limited data are given for partial-record sites. The data are summarized in tables near the end of this report.

The density of gaged sites varies somewhat between different regions within the State, the coverage being fairly adequate in all but the delta and coastal areas. In the areas in the Delta and near the Gulf, the presence of distributary and interconnected streams with indeterminate drainage areas, tidal estuaries, swamps and marshes, numerous drainage canals and diversions for rice irrigation present special problems in water supply that cannot be solved by the techniques used to collect and analyze data for this report. Investigations fitted specifically to the conditions found there will be necessary before the water facts for much of the area in these parts can be compiled.

The usefulness of data in this report to obtain greatest refinement in design of a water resources development project depends on the proximity of the project to a gaged site. Although the number of sites included in this report is fairly large, there are many basins or sub-basins located too far away from gaged streams for confidence in extension of data, and additional observation and study will be required before most refined design data can be developed. In addition to furnishing design data, the tabulations included in this report provide basic data for extending and refining concepts in the field of theoretical hydrology.

#### Acknowledgments

This report has been prepared as a part of a cooperative agreement for water resources investigations between the Louisiana Department of Public Works and the U.S. Geological Survey. Mr. Anthony J. Calandro, Hydraulic Engineer, was in charge of computations and the preparation of duration and low-flow frequency curves. Mr. Max J. Forbes, Hydraulic Engineer, assisted the author in the final analysis of data and in extending the data on low-flow characteristics to partial-record station sites.

Most of the streamflow records that provided the foundation for this report were collected by the Geological Survey through the cooperative programs with the State of Louisiana. Other records were obtained through cooperation with Federal agencies, principally the Corps of Engineers, Department of the Army.

Acknowledgment is also made of the helpful advice and criticism of the Washington staff of the U.S. Geological Survey, particularly Clayton H. Hardison, Chief, Hydrologic Studies Section, who developed the methods used for adjusting duration curves and low-flow frequency curves by comparison with records from other stations and who advised on many of the technical problems involved in this study.

## ANALYSIS OF STREAMFLOW DATA

### Records Available

Basic data on streamflow have been obtained at 376 sites in Louisiana. At 237 sites, observations of streamflow had been made over a period of years either to obtain a continuous record of daily discharge or to obtain periodic measurements of base flow as shown in table 1. At 139 sites, where only a single measurement or occasional miscellaneous measurements were made for a specific isolated need, no attempt has been made to analyze the data in this report for lack of acceptable correlation. Some of these records are not referenced herein and information on data available at all sites is given in the State gaging-station index which is an administrative report compiled annually by the U.S. Geological Survey.

Continuous-record gaging stations are identified in table 1 by the solid black bar, and the partial-record stations at which periodic base-flow measurements were obtained and for which data has been analyzed are identified by the cross hatched bar. Partial-record stations for which data are not analysed are identified by the open bar for the period of record. The index numbers in table 1 identify the stations on the location map, (fig. 11), in the tables, and in the station descriptions. The station numbers, which are shown in parentheses following the station name in the station descriptions, are the downstream order numbers permanently assigned to the stations. Downstream order numbers are explained in more detail in each of the annual reports on surface water-supply issued since 1958 (U.S. Geological Survey Water-Supply Papers).

### Selection of Reference Period

Records adjusted to a common reference period are more suitable for studying the differences in streamflow that result from the effects of basin factors. Records for a short period of years generally do not include the variation in flow typical of a longer period and they may be severely affected by a series of extreme hydrologic events. A common reference period tends to equalize or make homogeneous climatic experiences. With this understanding the need for adjusting the records to a common reference period is evident when one notes that lengths of record vary from 2 to 59 years for the 117 daily discharge stations shown in table 1.

In this report, streamflow data for all streams have been adjusted to climatic and water year reference periods of 29- or 30-year lengths, respectively. The 29-year period April 1, 1929, to March 31, 1958, for low-flow frequency and storage required analysis and the 30-year period October 1, 1928, to September 30, 1958, was used for flow-duration and average-discharge analysis. The reference period starts with 1929, the earliest year for which sufficient long-term records are available, and ends with 1958, the latest year of record available at the time the low-flow analyses were started.

Table 1.--Inventory of streamflow records in Louisiana and adjoining areas

Map No.	Water years ending Sept. 30										Station name	Drainage area (square miles)
	1920	1925	1930	1935	1940	1945	1950	1955	1960			
1											Pushematapa Creek near Angie, La.	72.3
2											Pushematapa Creek at Varrado, La.	158
3											Pearl River near Bogalusa, La.	6,630
4											Bogue Lusa Creek near Franklinton, La.	12.1
5											Bogue Lusa Creek at Bogalusa, La.	68.7
6											Silver Creek near Clifton, La.	50.1
7											Bogue Chitto at Franklinton, La.	985
8											Lawrence Creek near Franklinton, La.	44.2
9											Bogue Chitto near Bush, La.	1,210
10											Talisheek Creek at Talisheek, La.	17.3
11											Mississippi River near Vicksburg, Miss.	1,144,300
12											Red River near Hosston, La.	57,041
13											Black Bayou near Rodessa, La.	113
14											Black Bayou near Hosston, La.	231
15											Kelly Bayou near Hosston, La.	116
16											Black Bayou near Gilliam, La.	364
17											Twelvemile Bayou near Dixie, La.	3,137
18											Faw Paw Bayou near Greenwood, La.	78
19											Red River at Shreveport, La.	60,613
20											Bayou Dorcheat near Springhill, La.	605
21											Black Bayou at Leton, La.	49.8
22											Flat Lick Bayou near Leton, La.	66.9
23											Brushy Creek near Hortman, La.	16.1
24											Bayou Dorcheat near Minden, La.	1,097
25											Brushy Creek near Sibley, La.	43.6
26											Clarke Bayou near Naughton, La.	35.1
27											Bodcau Bayou near Sarepta, La.	546
28											Caney Creek near Cotton Valley, La.	63.9
29											Bodcau Bayou near Shreveport, La.	683
30											Cypress Bayou near Benton, La.	133
31											Black Bayou at Benton, La.	17.2
32											Loggy Bayou near Ninock, La.	2,628
33											Red River at Coushatta, La.	63,362
34											Poggy Bayou near Keithville, La.	79
35											Cypress Bayou near Keithville, La.	66
36											Cypress Bayou near Shreveport, La.	266
37											Rambou Bayou near Shreveport, La.	59.6
38											Bayou MaBonchasse near Mansfield, La.	19.5
39											Buffalo Bayou near Naborton, La.	17.7
40											Bayou Terre Blanc near Allen, La.	26.6
41											Bayou Dupont near Robeline, La.	35.1
42											Saline Bayou near Lucky, La.	154
43											Saline Bayou near Goldonna, La.	293
44											Black Lake Bayou near Minden, La.	38.6
45											Bear Creek near Ada, La.	53.1
46											Black Lake Creek near Gibsland, La.	46.1




 Years containing daily flow records  
 Years of occasional lowflow data analysed in this report  
 Years of occasional lowflow data not analysed in this report

Table 1.--Inventory of streamflow records in Louisiana and adjoining areas--Continued

Map No.	Water years ending Sept. 30										Station name	Drainage area (square miles)
	1920	1925	1930	1935	1940	1945	1950	1955	1960			
47											Leathemans Creek near Gibsland, La.	57
48											Kepler Creek near Sarta, La.	21.1
49											Black Lake Bayou near Castor, La.	423
50											Mill Creek near Castor, La.	21.3
51											Castor Creek at Castor, La.	27.9
52											Brushy Creek near Liberty, La.	13.3
53											Grand Bayou near Coushatta, La.	93.9
54											Saline Bayou near Clarence, La.	1,386
55											Natchie Creek near Montgomery, La.	47.0
56											Youngs Bayou at Natchitoches, La.	40.1
57											Little Sandy Creek at Kisatchie, La.	21.4
58											Kisatchie Bayou near Bellwood, La.	140
59											Bayou Santabarb at Bellwood, La.	51.1
60											Middle Creek near Bellwood, La.	40.0
61											Horsepen Creek near Provencal, La.	5.27
62											Bayou Pierre at Gorum, La.	19.1
63											Hemphill Creek near Hot Wells, La.	13.0
64											Latt Creek near Faircloth, La.	114
65											Black Creek near Faircloth, La.	26.4
66											Bayou du Grappe near Colfax, La.	15.1
67											Red River at Alexandria, La.	67,500
68											Bayou Bartholomew near Jones, La.	1,107
69											Chemin-a-Haut Bayou near Beekman, La.	271
70											Bayou Bartholomew near Beekman, La.	1,645
71											Bayou de Louire near Laran, La.	143
72											Bayou de Louire at De Louire, La.	302
73											Bayou D'Arbonne at Romef, La.	30.0
74											Big Creek near Vienna, La.	68.9
75											Bayou D'Arbonne near Dubach, La.	355
76											Cypress Creek near Unionville, La.	63.3
77											Middle Fork Bayou D'Arbonne near Colquitt, La.	43.9
78											Middle Fork Bayou D'Arbonne near Bernice, La.	178
79											Little Corney Bayou near Summerfield, La.	54.0
80											Corney Bayou near Lillie, La.	462
81											Little Corney Bayou near Lillie, La.	208
82											Stone Creek near Farmerville, La.	29.0
83											Bayou Choudrant at Tremont, La.	87.5
84											Ouachita River at Monroe, La.	15,298
85											North Cheniere Creek at Cheniere, La.	33.0
86											Cheniere Creek near Bayouville, La.	134
87											Beauf River near Ark.-La. State line	735
88											Beuf River near Girard, La.	1,226
89											Big Colewa Bayou near Oak Stove, La.	42
90											Big Creek at Holly Ridge, La.	171
91											Big Creek near Mangham, La.	347
92											Little Creek near Mangham, La.	25.1




 Years containing daily flow records  
 Years of occasional lowflow data analysed in this report  
 Years of occasional lowflow data not analysed in this report

Table 1.--Inventory of streamflow records in Louisiana and adjoining areas--Continued

Map No.	Water years ending Sept. 30										Station name	Drainage area (square miles)
	1920	1925	1930	1935	1940	1945	1950	1955	1960			
93											Bayou Calion near Mer Rouge, La.	22.9
94											Bayou LaFourche near Crew Lake, La.	361
95											Turkey Creek at Winnsboro, La.	101
96											Deer Creek near Wisner, La.	27.1
97											Bushley Creek at Manifest, La.	64.7
98											Tensas River at Tendam, La.	309
99											Bayou Vidal near Quimby, La.	160
100											Bayou Macon near Kilbourne, La.	504
101											Bayou Macon near Delhi, La.	732
102											Castor Creek at Chatham, La.	60.0
103											Bills Creek near Mt. Pleasant, La.	24.7
104											Castor Creek near Grayson, La.	271
105											Black Bayou near Clarks, La.	49.0
106											Beaucoup Creek near Cotton Plant, La.	127
107											Beech Creek near Olla, La.	58
108											Big Chickasaw Creek near Olla, La.	86
109											Castor Creek at Tullos, La.	923
110											Dugdemona River near Quitman, La.	117
111											Cypress Creek at Quitman, La.	46.0
112											Garrett Creek at Jonesboro, La.	2.14
113											Dugdell Creek near Danville, La.	19.5
114											Dugdemona River near Jonesboro, La.	347
115											Big Creek near Dodson, La.	81
116											Dugdemona River near Winnfield, La.	654
117											Port deLuce Creek at Winnfield, La.	53.0
118											Little River near Rochelle, La.	1,880
119											Bear Creek near Packton, La.	11
120											Bayou Fumy Louis near Trout, La.	92
121											Fish Creek near Pollock, La.	30.0
122											Big Creek at Pollock, La.	51
123											Lagoon Bayou near Tioga, La.	32.0
124											Hemphill Creek at Nebo, La.	35.3
125											Bayou Sara near St. Francisville, La.	104
126											Spring Grove branch near St. Francisville, La.	1.34
127											Little Bayou Sara near Turnbull, La.	22.3
128											Thompson Creek at Jackson, La.	99.3
129											West Fork Thompson Creek near Wakefield, La.	35.3
130											Alexander Creek near St. Francisville, La.	23.9
131											Bayou Baton Rouge near Baker, La.	17.6
132											Tchefuncta River near Franklinton, La.	53.1
133											Tchefuncta River near Folsom, La.	95.5
134											Bogue Falaya near Covington, La.	76.5
135											Little Bogue Falaya near Covington, La.	17.4
136											Abita River at Abita Springs, La.	28.9
137											Tangipahoa River near Kentwood, La.	237
138											Beaver Creek at Tangipahoa, La.	25.5




 Years containing daily flow records  
 Years of occasional lowflow data analysed in this report  
 Years of occasional lowflow data not analysed in this report



Table 1.--Inventory of streamflow records in Louisiana and adjoining areas--Continued

Map No.	Water years ending Sept. 30										Station name	Drainage area (square miles)
	1920	1925	1930	1935	1940	1945	1950	1955	1960			
139											Chappeeela Creek near Loranger, La.	24.4
140											Tangipahoa River at Robert, La.	646
141											Washley Creek near Robert, La.	25.3
142											Tickfaw River at Laverpool, La.	89.7
143											Tickfaw River near Greensburg, La.	136
144											Josephs Branch at Greensburg, La.	11.6
145											Twelvemile Creek near Montpelier, La.	45.0
146											Tickfaw River at Hoiden, La.	247
147											Hog Branch near Doyle, La.	110
148											Natalbany River at Saprist, La.	79.5
149											Beaver Creek near Felixville, La.	123
150											Amite River near Darlington, La.	580
151											Darlings Creek near Darlington, La.	54.3
152											Bluff Creek at Bluff Creek, La.	26.3
153											Sandy Creek near Clinton, La.	27.3
154											Sandy Creek near Greenwell Springs, La.	114
155											Comite River near Clinton, La.	88.0
156											Comite River near Olive Branch, La.	149
157											Redwood Creek near Slaughter, La.	42.4
158											White Bayou near Zachary, La.	65.7
159											Cypress Bayou near Zachary, La.	11.2
160											Comite River near Comite, La.	332
161											Amite River near Denham Springs, La.	1,330
162											Jones Creek near Woodlawn, La.	19.5
163											Mard Creek at Government Street at Baton Rouge, La.	4.31
164											Bayou Duplantier at City Park Lake at Baton Rouge, La.	0.81
165											Mard Creek at Seigen Lane near Baton Rouge, La.	40.0
166											Colyell Creek at Livingston, La.	20.7
167											Middle Colyell Creek near Walker, La.	20.3
168											West Colyell Creek near Walker, La.	28.5
169											Bayou Lafourche at Donaldsonville, La.	indeterminate
170											Atchafalaya River at Krotz Springs, La.	indeterminate
171											Spring Creek near Glenmora, La.	88.3
172											Bayou Cocodrie near Clearwater, La.	240
173											Gastor Creek near Alexandria, La.	28.5
174											Bayou Courtableau at Washington, La.	715
175											Bayou Carron at Washington, La.	82.6
176											Chatlin Lake Canal near Lecompote, La.	73.9
177											Bayou des Glaises diversion channel at Moreauville, La.	270
178											W. Protection borrow pit channel nr Plaucheville, La.	321
179											Eg. D'Arbonne Bayou at Culvert nr Krotz Springs, La.	indeterminate
180											Bayou Courtableau at Weirs near Krotz Springs, La.	indeterminate
181											Bayou Teche at Arnaudville, La.	1,531
182											Bayou Carencro near Sunset, La.	37.1
183											Bayou Fusilier at Arnaudville, La.	1,531
184											Bayou Bourbeau at Shuteston, La.	19.0




 Years containing daily flow records  
 Years of occasional lowflow data analysed in this report  
 Years of occasional lowflow data not analysed in this report

Table 1.--Inventory of streamflow records in Louisiana and adjoining areas--Continued

Map No.	Water years ending Sept. 30										Station name	Drainage area (square miles)
	1920	1925	1930	1935	1940	1945	1950	1955	1960			
135											Coulee de Mamuel near Ville Platte, La.	10.9
136											Bayou des Cannes near Eunice, La.	131
137											Bayou Mallet near Eunice, La.	94.5
138											Bayou Plaquemine Brule at Church Point, La.	48.2
139											Long Point Gully near Crowley, La.	25.7
140											Bayou Plaquemine Brule near Crowley, La.	252
191											Boggy Bayou near Pine Prairie, La.	51.3
192											Beaver Creek at Beaver, La.	14.4
193											Castor Creek at Hampton, La.	43.9
194											Castor Creek at Hampton, La.	28.7
195											Bayou Duraid near Basile, La.	65.0
196											Bayou Blue near Kinder, La.	28.7
197											Bayou Nezpique near Basile, La.	527
198											Calcasieu River near Slagie, La.	48.1
199											Big Creek near Leander, La.	37.1
200											Devils Creek near Flatwoods, La.	37.4
201											Calcasieu River near Glenmora, La.	499
202											Cherrywinch Creek near Oakdale, La.	51.4
203											Calcasieu River near Oberlin, La.	753
204											Whiskey Chitto Creek at Fort Polk, La.	5.80
205											Birds Creek near Cravens, La.	22.0
206											Sixmile Creek at Pitkin, La.	88.6
207											Big Brushy Creek near Pitkin, La.	34.4
208											Sixmile Creek near Sugartown, La.	171
209											Tennile Creek near Elizabeth, La.	94.2
210											Whiskey Chitto Creek near Oberlin, La.	510
211											Flat Creek near DeRidder, La.	26.3
212											Bundick Creek near DeRidder, La.	120
213											Dry Creek at Dry Creek, La.	238
214											Dry Creek at Dry Creek, La.	42.7
215											Calcasieu River near Kinder, La.	1,700
216											Barnes Creek near Reeves, La.	111
217											Clear Creek at Reeves, La.	23.1
218											Bayou Serpent near Fenton, La.	89.0
219											Cowpen Creek near DeRidder, La.	28.3
220											Beckwith Creek near Singer, La.	76.0
221											Beckwith Creek near DeQuincy, La.	148
222											Hickory Branch near Longville, La.	34.9
223											Hickory Branch at Kernan, La.	82.2
224											Bearhead Creek near Singer, La.	45.6
225											Bearhead Creek near Starks, La.	177
226											Cowards Gully near DeQuincy, La.	15.3
227											Buxton Creek near DeQuincy, La.	50.5
228											Sabine River at Logansport, La.	4,839
229											Bayou Castor near Longstreet, La.	27.7
230											Bushneck Bayou at Longstreet, La.	26.9
											Bayou Castor near Logansport, La.	96.5







 Years containing daily flow records  
 Years of occasional lowflow data analysed in this report  
 Years of occasional lowflow data not analysed in this report

Table 1 --Inventory of streamflow records in Louisiana and adjoining areas--Continued

Map No.	Water years ending Sept. 30										Station name	Drainage area (square miles)
	1920	1925	1930	1935	1940	1945	1950	1955	1960			
231											Bayou Grand Cane near Logansport, La.	76.5
232											Clement Creek near Hunter, La.	44.6
233											Cow Bayou near Hunter, La.	29.2
234											Bayou San Patricio near Benson, La.	30.2
235											Bayou San Patricio near Noble, La.	134
236											Little Bayou San Miguel near Mitchell, La.	33.4
237											Bayou San Miguel near Zwolle, La.	111
238											Bayou Scie at Zwolle, La.	45.9
239											Blackwell Creek at Mary, La.	3.16
240											Lewis Creek near Mary, La.	12.5
241											Bayou LaNana near Zwolle, La.	130
242											Sabine River near Milan, Tex.	6,503
243											Sabine River at Sabinetown, Tex.	6,713
244											Bayou Negreet near Negreet, La.	52.1
245											Bayou Toro near Toro, La.	144
246											Bayou Toro south of Toro, La.	187
247											Sandy Creek near Burr Ferry, La.	33.7
248											Fearl Creek at Burr Ferry, La.	18.0
249											Sabine River below Toledo Bend near Burkeville, Texas	7,482
250											Red Bank Creek at Evans, La.	17.2
251											East Anacoco Creek near Anacoco, La.	40.6
252											Bayou Anacoco near Leesville, La.	118
253											Bayou Anacoco near Rosepine, La.	355
254											Bayou Anacoco near Knight, La.	415
255											Trout Creek near Merryville, La.	16.9
256											Sabine River near Bon Wier, Texas	8,229
257											Hoosier Creek near Merryville, La.	13.1
258											Cypress Creek near Bivens, La.	15.4
259											Brushy Creek at Bancroft, La.	25.9
260											Sabine River near Nuliff, Texas	9,329

 Years containing daily flow records  
 Years of occasional lowflow data analysed in this report  
 Years of occasional lowflow data not analysed in this report

# A R K A N S A S

Figure 11. Location map of gaging stations and partial-record sites showing median minimum 7-day discharge in cfs.

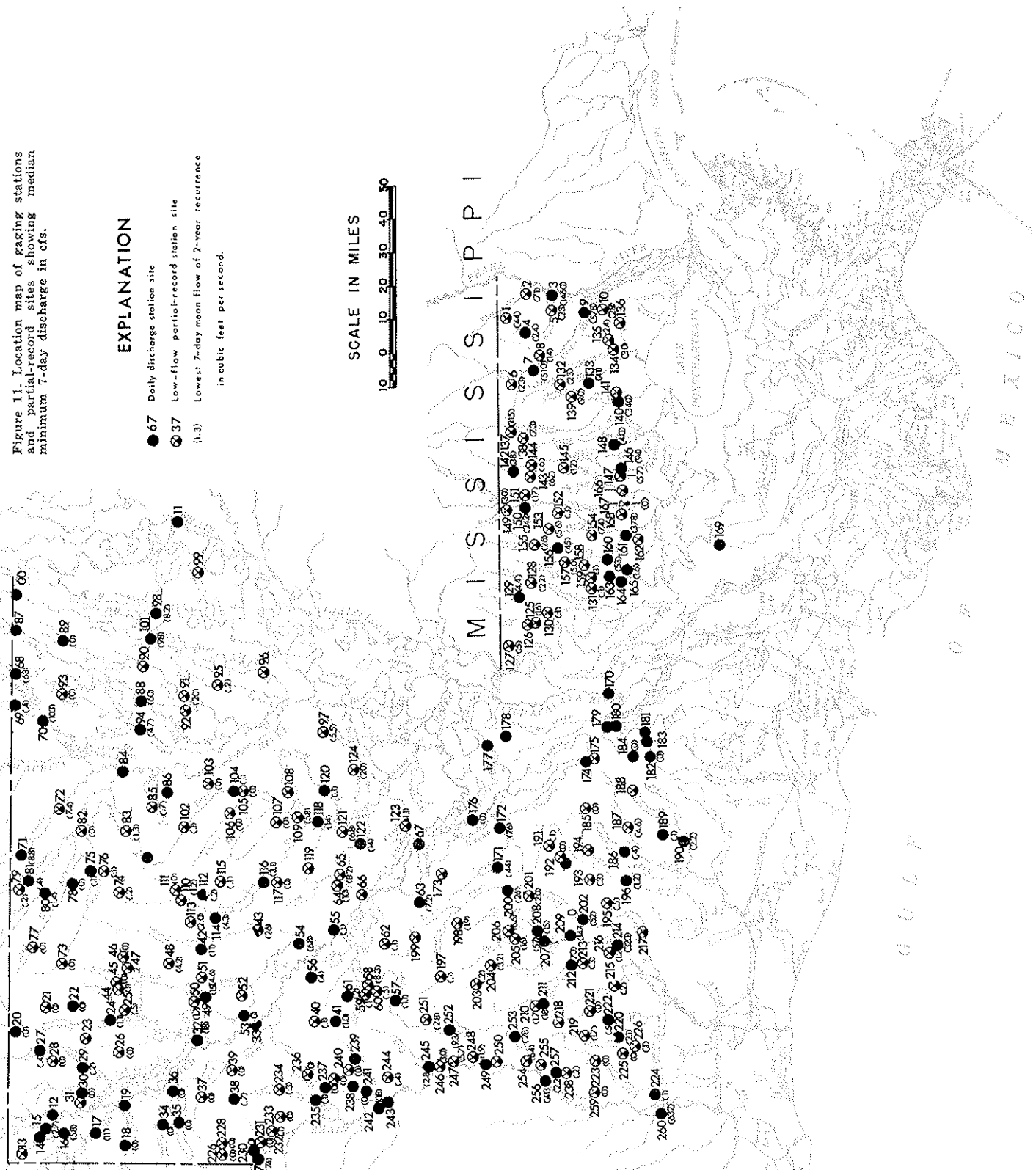
## EXPLANATION

- 67 Daily discharge station site
- ⊗ 37 Low-flow partial-record station site
- (1.3) Lowest 7-day mean flow of 2-year recurrence in cubic feet per second.

SCALE IN MILES



# M I S S I S S I P P I



# STATE OF LOUISIANA

## Analysis of Data at Stream-Gaging Stations

Annual low-flow summaries computed by electronic computer were used for all stations having 5 years or more of record as of September 30, 1958. These summaries give the lowest mean flow each year for selected periods from one to 274 days, figure 1 (page 12) and also give the number of days each year that the daily discharge fell between selected class limits, figure 2 (page 13). The annual low flows are the lowest in climatic year starting April 1 and ending the following March 31 so that the low-flow periods in fall and winter are considered in the same year as the low flows of the preceding summer. Duration data were computed from water-year data beginning October 1 and ending the following September 30.

The flow-duration curves for each long-term station, stations having records for the full reference period or longer or having curves which have been adjusted to the reference period by correlation, were smoothed by comparison with the flow-duration curves for other long-term stations, and the flow-duration curves for several short-term stations were extended to the reference period October 1928 to September 1958 by relation with one or more long-term stations. The smoothing of the curves for the long-term stations amounted to only a few percent as illustrated by the plot of flow-duration data for stations 202 and 260, figures 3 (page 14) and 4 (page 15), but the extending of the short-term records resulted in an appreciable change in some of the curves as illustrated by the plot of flow-duration for the period 1951-58 at station 150, figure 5 (page 16). The extending of flow-duration curves was accomplished by plotting the discharge for equal percent duration at pairs of gaging stations as described by Searcy (1959, pp. 14-17).

The low-flow frequency curves presented in this report have been adjusted to the reference period April 1929 to March 1958 (climatic years 1929-57) by means of correlations with long-term stations called pivot stations. The distribution of annual low flow at each of eight long-term (pivot) stations; four in the State (Sabine River at Logansport, La., Bogue Chitto River at Bush, La., Calcasieu River near Oberlin, La., and Bayou Bartholomew near Beekman, La.) and four stations outside the State (Pearl River at Jackson, Miss., Mountain Fork River near Eagletown, Okla., Sabine River near Rye, Ark., and Pascagoula River near Merrill, Miss.) was related with that at two or more other long-term stations and smoothed as described in the following few paragraphs. Because each of the long-term stations was in turn used as the center of a group of stations, it is called a pivot station in this report. These stations are also pivotal in that they are the crucial stations on which the analyses for all other stations in their vicinity depend.

Seven stations were selected and designated index stations which have shorter records than the pivot stations. The seven used as index stations were first related to the flow at the pivot stations and then used to relate the flow at other stations, most of which have even shorter records and are referred to as secondary stations. The seven index stations are Bayou Dorcheat near Minden, Bodcau Bayou near Sarepta, Boeuf River near Girard, Amite River near Denham Springs, Pearl River near Bogalusa, Tangipahoa River at Robert, and Dugdemona River near Winnfield.



**Calcasieu River near Oberlin, La.**

STATION NUMBER **08-0135.00**

YEAR	1	3	7	15	30	60	90	120	150	183	274
1923	152.0	157.0	165.0	175.0	262.0	499.0	576.0	572.0	644.0	844.0	1840.0
1939	44.0	44.0	44.1	45.6	47.3	65.5	103.0	98.0	168.0	181.0	256.0
1940	70.0	70.7	71.3	73.0	83.3	118.0	211.0	1350.0	1340.0	1390.0	1980.0
1941	155.0	157.0	163.0	201.0	228.0	333.0	446.0	809.0	861.0	836.0	1430.0
1942	60.0	60.0	60.0	60.5	63.6	66.9	80.5	94.1	101.0	128.0	237.0
1943	57.0	57.0	58.6	62.3	74.3	103.0	121.0	120.0	157.0	167.0	300.0
1944	55.0	57.7	60.0	62.9	68.4	71.6	108.0	107.0	110.0	167.0	698.0
1945	114.0	115.0	120.0	127.0	151.0	223.0	374.0	456.0	586.0	532.0	941.0
1946	83.0	83.7	89.3	99.5	171.0	228.0	284.0	315.0	499.0	761.0	1200.0
1947	46.0	46.0	45.7	47.0	49.8	55.7	56.8	61.3	129.0	257.0	603.0
1948	40.0	41.7	42.7	43.5	44.1	48.6	49.0	52.2	55.4	62.3	538.0
1949	68.0	68.7	74.1	82.9	89.2	168.0	262.0	238.0	297.0	307.0	748.0
1950	75.0	76.0	78.7	84.3	93.4	122.0	147.0	177.0	191.0	223.0	680.0
1951	49.0	49.3	51.1	51.9	54.5	67.8	72.5	71.8	78.1	89.7	229.0
1952	32.0	32.0	32.1	32.7	33.8	38.9	45.4	55.2	78.3	99.7	351.0
1953	45.0	45.0	45.0	45.9	48.5	58.0	61.7	71.3	110.0	122.0	229.0
1954	36.0	37.0	38.6	39.2	40.6	42.0	46.1	51.1	54.2	55.2	297.0
1955	41.0	45.7	59.4	62.1	64.1	88.2	133.0	168.0	183.0	584.0	648.0
1956	30.0	30.3	30.7	31.5	32.5	34.1	40.6	43.0	46.5	53.1	352.0
1957	37.0	39.0	44.4	54.5	57.6	86.8	121.0	274.0	375.0	471.0	1480.0

Figure 1. Sample of output sheet from electronic computer showing annual low-flow frequency data for Calcasieu River near Oberlin, La.



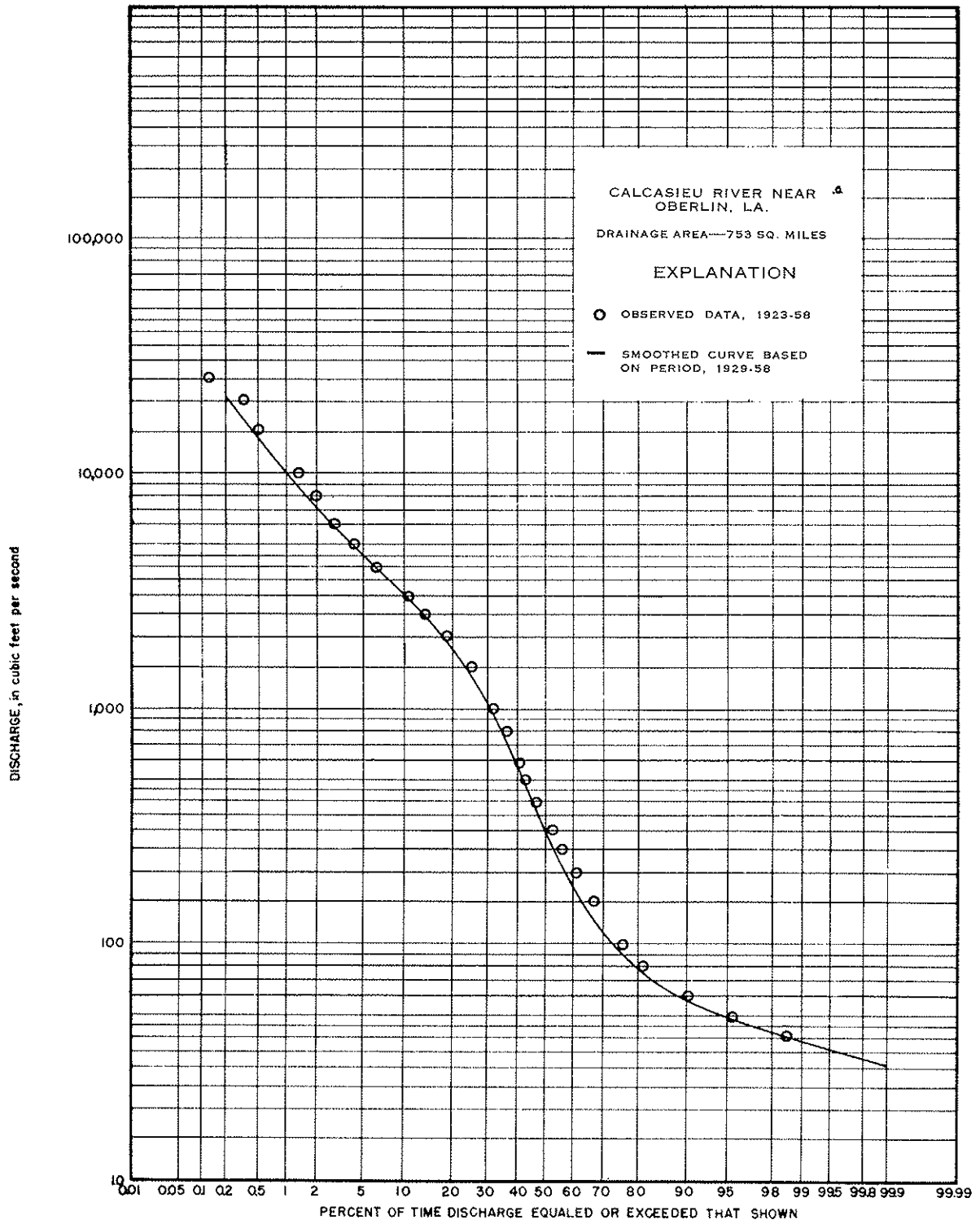


Figure 3. Duration curve of daily flow, Calcasieu River near Oberlin, La.  
(based on period, 1929-58)

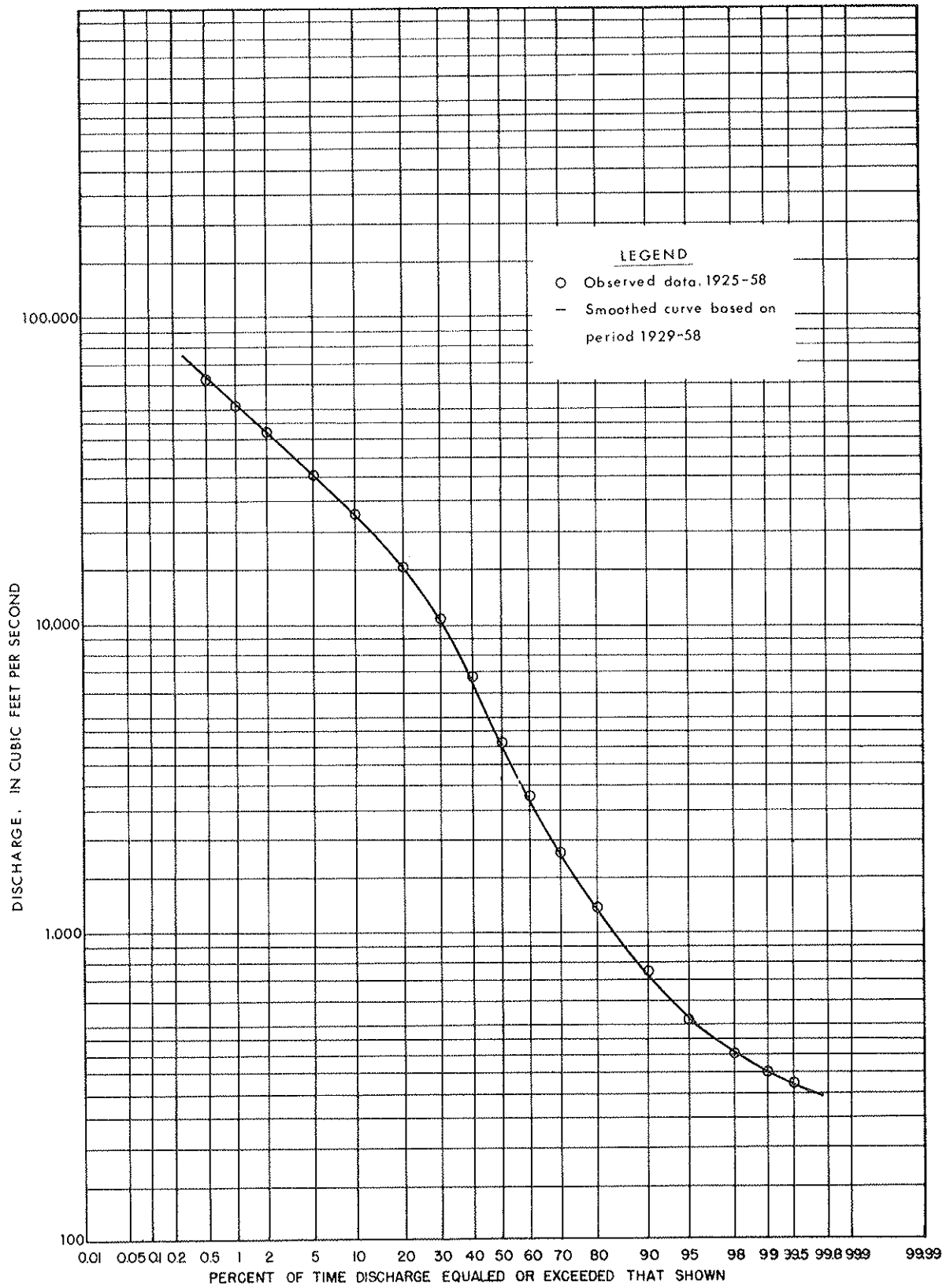


Figure 4. Duration curve of daily flow, Sabine River near Ruliff, Tex.  
(based on period, 1929-58)

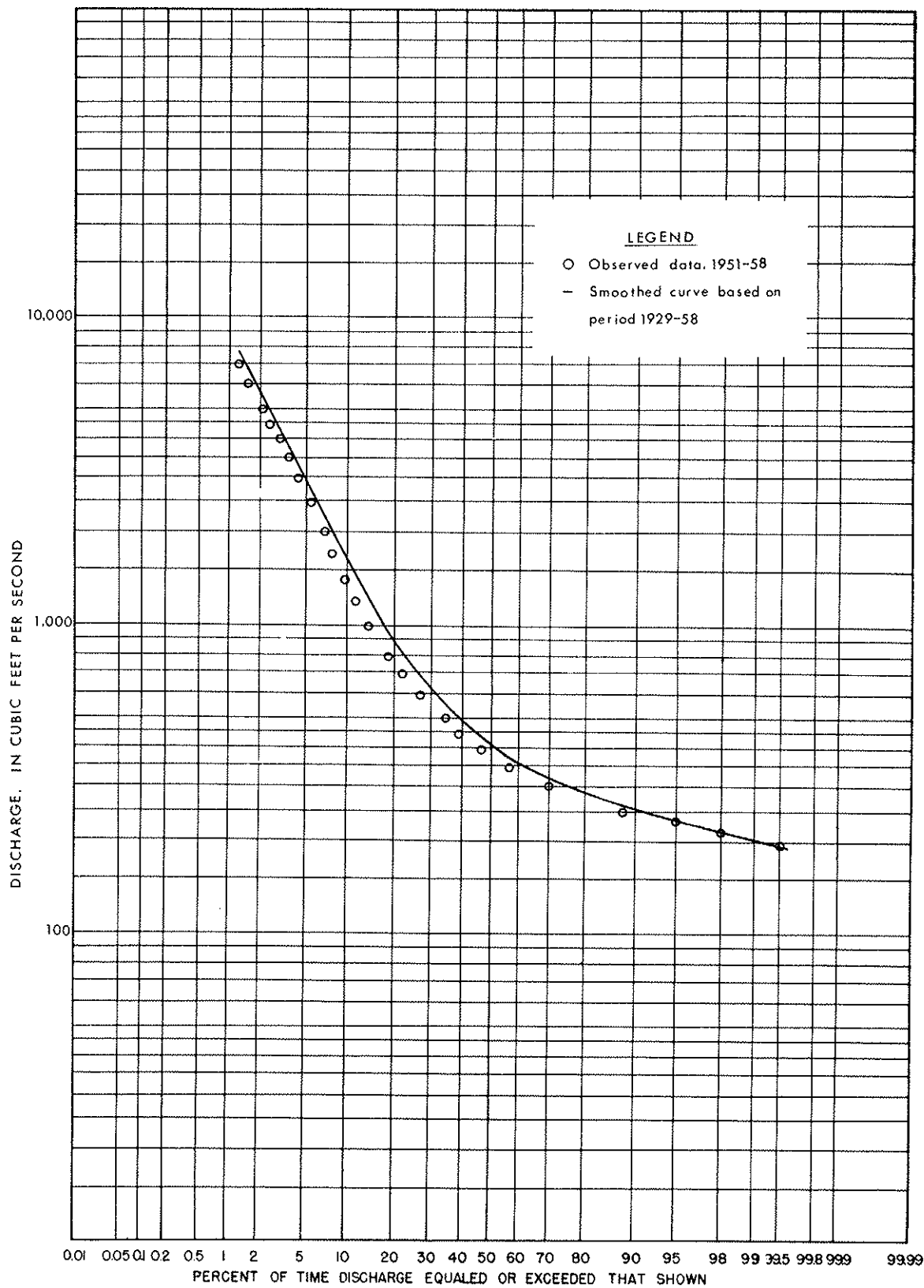


Figure 5. Duration curve of daily flow, Amite River near Darlington, La.  
(based on period, 1929-58)



Smoothed curves of low-flow frequency for the eight pivot stations were taken from a recent report by Hardison and Martin (1962).

The smoothing of the frequency distribution of annual low flow at the eight pivot stations and the transposition of low-flow frequency experience from one pivot station to another was accomplished by techniques described by Hardison and Martin (1946, WSP 1669N). The transposed data were averaged with the observed data at the station and used to define the low-flow frequency curves. The smoothing of the low-flow frequency curves by this method results in curves which average the observed data, but which depart considerably from individual points or groups of points.

This procedure is followed because when the experience at one of the stations is transposed through the relation and averaged with the observed flow at the other station the answer is a compromise of the experience at both stations. It is for this reason, for instance, that the regionalized curve for Sabine River at Logansport for the 120-day period at the 50-year recurrence interval (fig. 9) shows 26 cfs, yet the lowest average observed 120-day discharge in the 54 years of record (1904-57) was 32 cfs.

Low-flow frequency curves for the seven index stations were extended by relating the annual low flows to the annual low flows at one or more pivot stations for the concurrent period of record in a manner similar to that used for smoothing of the frequency distribution of annual low flow at the eight pivot stations. Even though the relation lines are actually only an estimate of the long-term position, it is reasonable to assume that they can be used to obtain a better estimate of the low-flow frequency curves for the period 1929-57 than could be obtained by an analysis of only the observed data for a shorter period.

#### Analysis of Data at Partial-Record Sites

Low-flow frequency data (annual minimum discharges for 7-days for recurrence intervals of 2 years and 5 years) and flow duration data (60, 80, 90, and 95 percent time flows) were statistically determined for 118 of the 145 partial-record low flow stations and for 4 short-term continuous record stations by transposing the data from adjusted frequency and duration curves for a gaging station (index station) through a relation curve. The relation curve for the partial-record stations were developed by plotting the discharge measurements of base flow at the partial-record site against the concurrent daily discharge at the index station and drawing a graphical line of regression. The relations were considered satisfactory for use if the correlation coefficient computed to be 0.80 or greater. The relation curves for 7 partial-record sites were unsatisfactory.

The relation curves for the 4 short-term continuous-record stations were developed by plotting concurrent daily base flow discharges at a short-term and homogeneous index station and drawing a graphical line of regression.

The typical relation curve, on logarithmic paper, between gaging

station records is a straight line in the low-flow range. The low flows come from underground or surface storage and are thus greatly affected by surficial geology. In the majority of cases the geology of the two drainage basins is reasonably similar and the low-flow relation line continues without a break. In some cases there is sufficient difference in geology to cause a break at extremely low flows.

#### FLOW-DURATION CURVES

A flow-duration curve is a cumulative frequency curve that shows a percentage of time during which certain specified discharges were equaled or exceeded in a given period. It combines in one curve the flow characteristics of a stream throughout the range of discharge without regard to the sequence of occurrence. If the period upon which the curve is based represents a long-term flow of a stream, the curve may be used to predict distribution of future flows for water power, water supply, and pollution studies (Searcy 1959, p.12). The slope of the duration curve is a quantitative measure of the variability of the streamflow and a flat slope on the low end depicts well sustained flow. Differences in low-flow yield of several selected streams are demonstrated in figure 6 (page 19).

The duration curves for Tangipahoa River and Calcasieu River, which are relatively high yielding streams have much flatter slopes at the low ends than those for Black Lake Bayou, Black Bayou, and Corney Bayou which are in areas of comparatively lower base flow yields and have curves with increasingly steeper slopes. The variability is also evident from the variability index values shown for each daily discharge station. (See table 2). The slope of the duration curves for the high yielding streams are flatter than those for the low yielding streams, thus the flow-duration data in tables 2 and 3 are excellent tools for comparing the low-flow characteristics of different streams.

As an example of the use of the duration curves, assume that it is desired to locate an industrial plant at a site on the Calcasieu River in the vicinity of Glenmora at which the drainage area is 500 square miles. The feasibility of meeting the water-supply requirements is desired without resorting to the construction of a storage dam. Further assume that a flow of 20 cfs (.04 cfs per square mile from 500 square miles) is required for plant operations. As observed minimum flows are less than the required flow, it is necessary to know the probable percent of time that there will be a shortage of water. From the curve of the base period (water year 1929-58, fig. 6), the flow of .04 cfs per square mile will be available 98 percent of the time.

The flow-duration curve does not show the number of consecutive days flow will be insufficient and neither does it show how frequently shortages will occur. It may be possible to supply the demand with the exception of short periods when less than the required amount will be available, and it might be possible to shut down the plant occasionally if the shortage does not occur too frequently. Therefore, it is necessary to know more about the

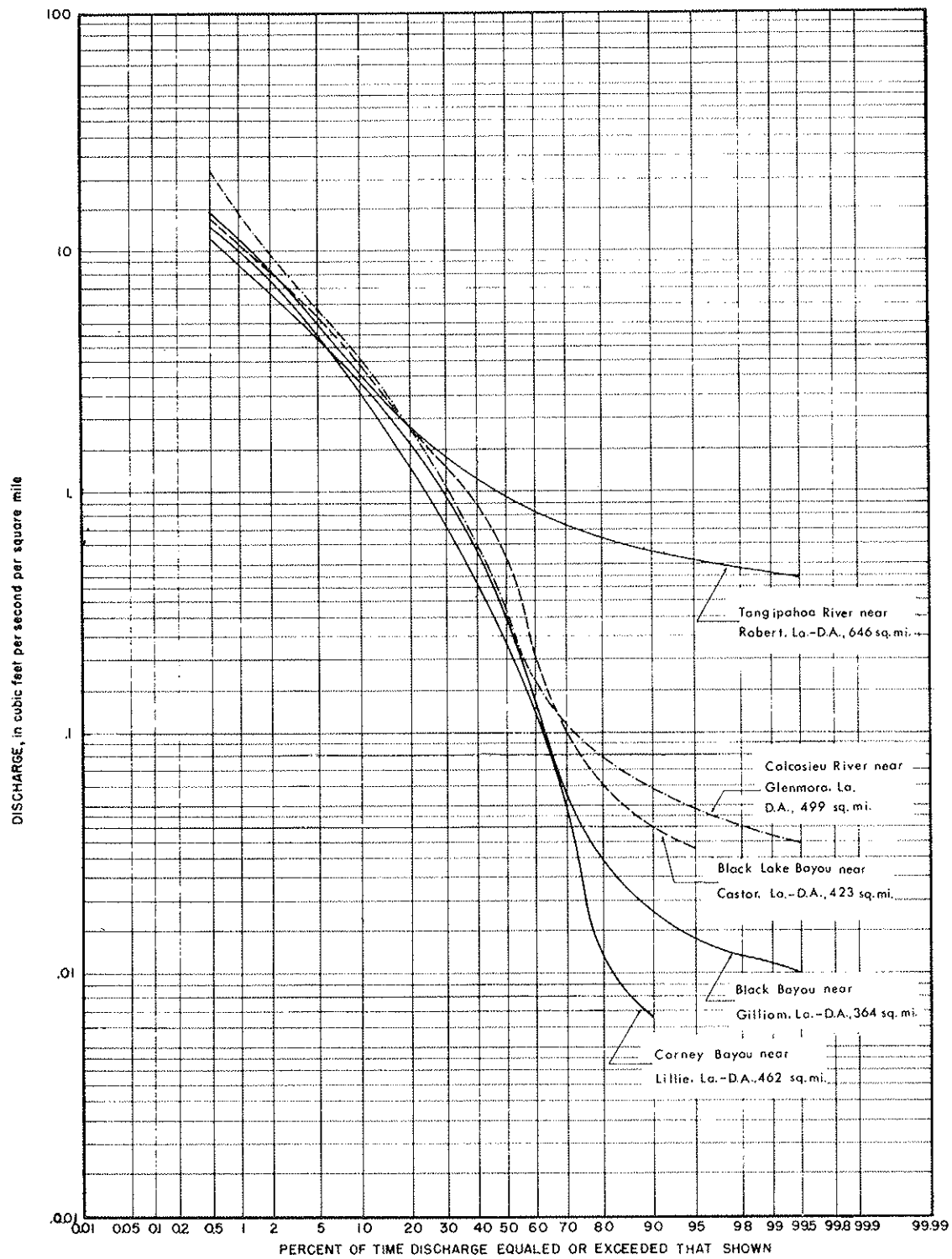


Figure 6. Duration curves of daily flows of five streams in Louisiana  
(based on period, 1929-58)

flow characteristics of the stream. How frequently will the flow be insufficient? How long will the flow deficiency last? How much storage will be required to provide the necessary flow? These questions can be answered by the use of the low-flow frequency curve, the maximum period of deficient discharge curve, and the storage requirement curve.

The duration data for the regular gaging stations appear in table 2 at the end of this report, and skeleton data on flow duration are given in tabular form for partial-record stations in table 7 in the back of the report.

### Variability Index

The variability index as defined by Lane and Lei (1950) is the standard deviation of the logarithms of the stream discharge. When the duration curve is plotted on log probability paper, the index represents the fall (in terms of log cycles) of the duration curve in one standard deviation. The index can be easily determined graphically, and expressed in log units by simply scaling off the vertical distance of the log scale between the 16% time flow and the 84% time flow values and dividing by 2. It will be noted that the variability index for the smaller high yielding streams in the southeastern part of Louisiana range between about .30 and .50, whereas the smaller streams in the northern and northwestern part of the State have high index values ranging from about 0.80 to 1.80, and the larger mainstem streams like Sabine River and the Calcasieu River have values ranging from about 0.60 to 0.90.

### LOW-FLOW FREQUENCY CURVES

Low-flow frequency curves based on the lowest annual flow occurring during one or several consecutive days gives the average interval at which a 1-day or several days average discharge may be expected to recur. The year from which each low day or period is taken is referred to as the climatic year (April 1 to March 31). Typical low-flow frequency curves for Louisiana streams for the average flow during periods of 7, 15, 30, 60, 120, 183, and 274 consecutive days are shown in figures 7 (page 21) through 9 (page 23). The amount and frequency of annual low flows for the same number of consecutive days for all daily streamflow stations for which records have been analyzed are given in tables 3 and 4. The data in the figures and in the tables are based on the period 1929-58.

The shape of the low-flow frequency curves reflects the geologic and hydraulic characteristics of the drainage area. The slope and magnitude of the 7-day curves which are defined almost entirely by flow from ground water indicate the amount of ground-water storage available to sustain streamflow. A flat slope indicates that a relatively large amount of ground water is available; a steep slope may indicate either a small amount or no ground-water discharge.

The curves in figure 9 are typical of many streams in northern Louisiana. Such streams go dry most every year indicating that the available effluent ground water either is very limited or that the streams are in highly permeable formations that drain quickly during periods of dry weather.

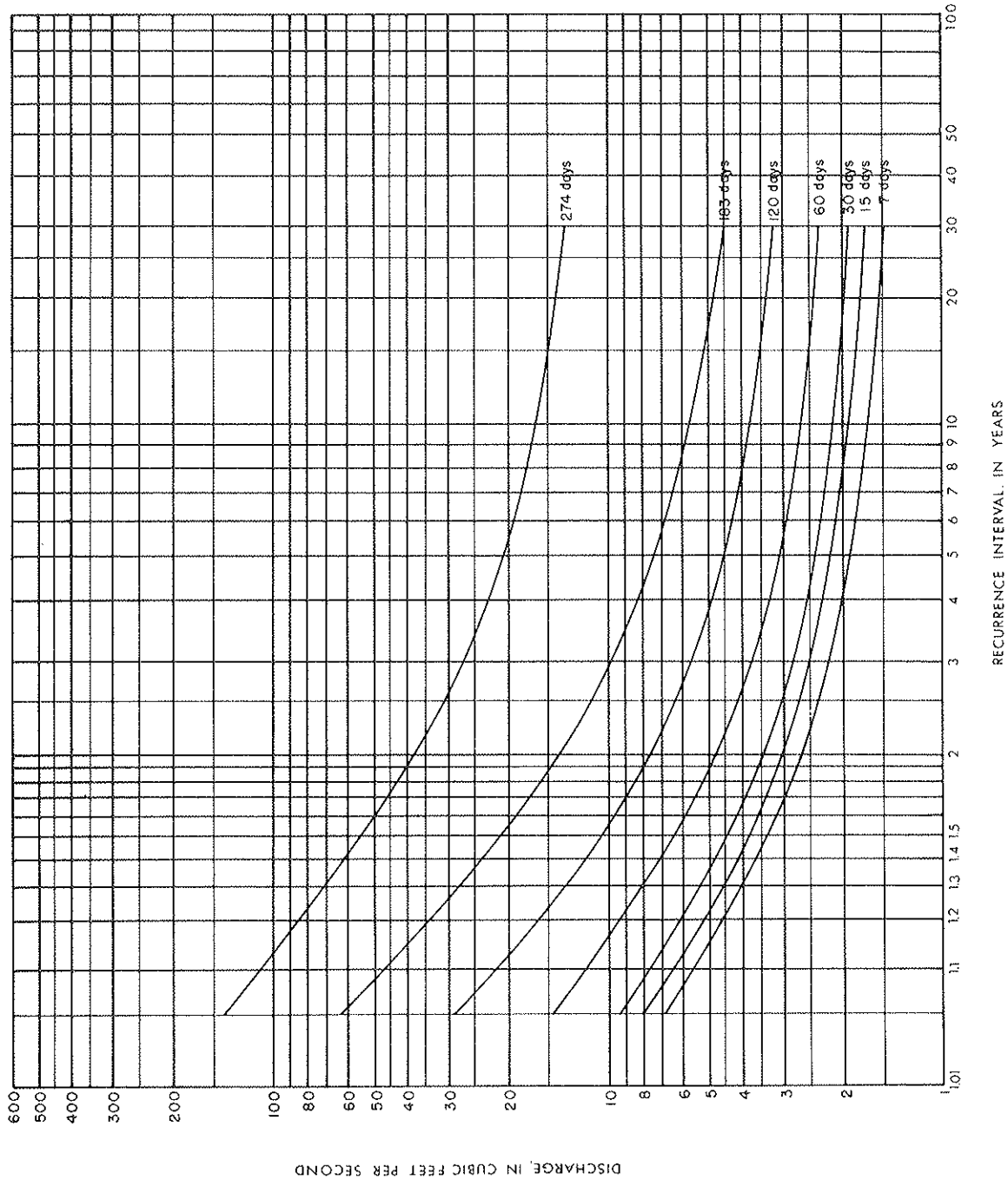


Figure 7. Low-flow frequency curves for Kelly Bayou near Hosston, La., based on period, 1939-58 (drainage area 116 sq. mi.)

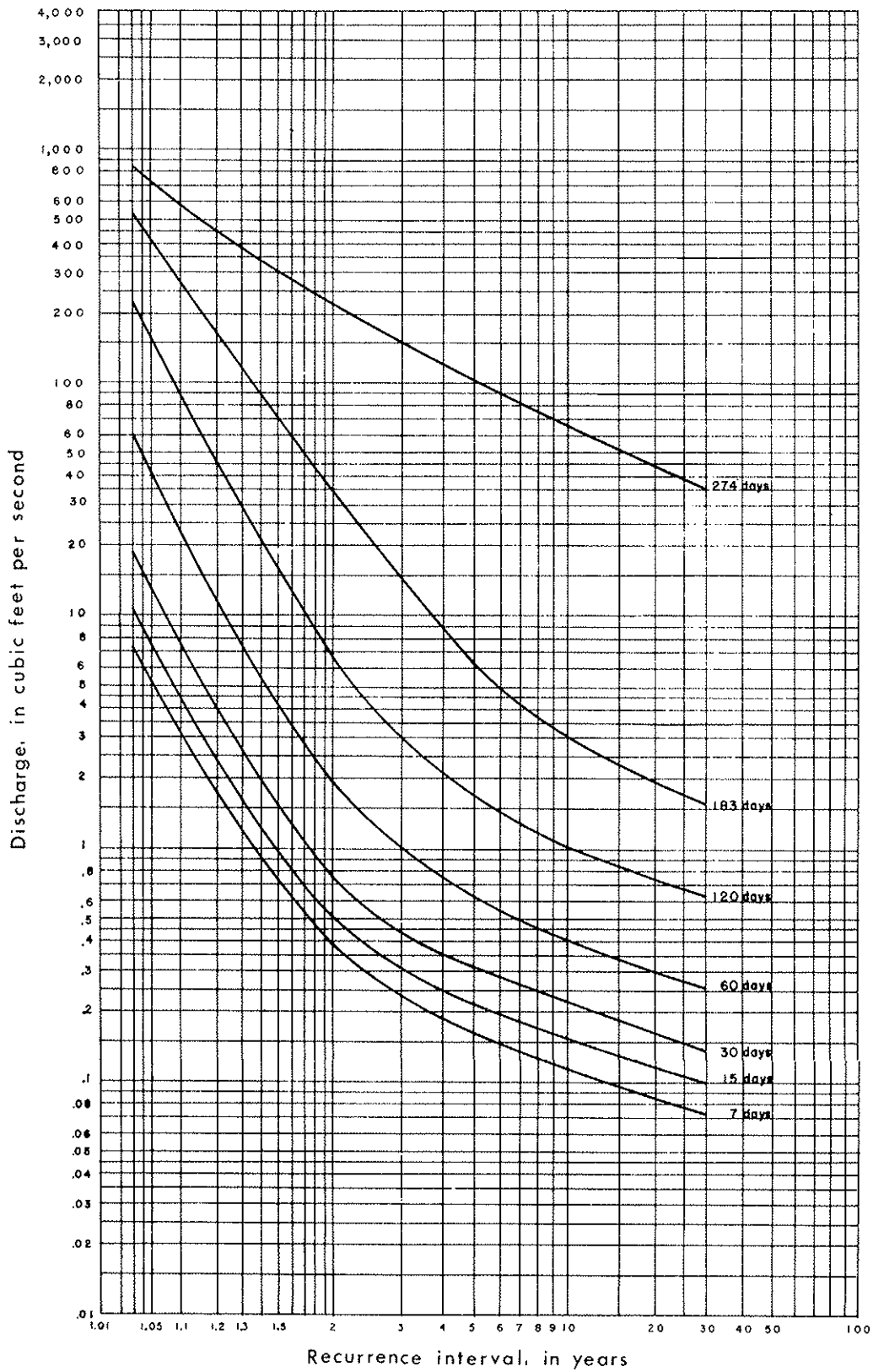


Figure 8. Low-flow frequency curves for Bodcau Bayou near Sarepta, La., based on period 1929-58 (drainage area, 546 sq. mi.)

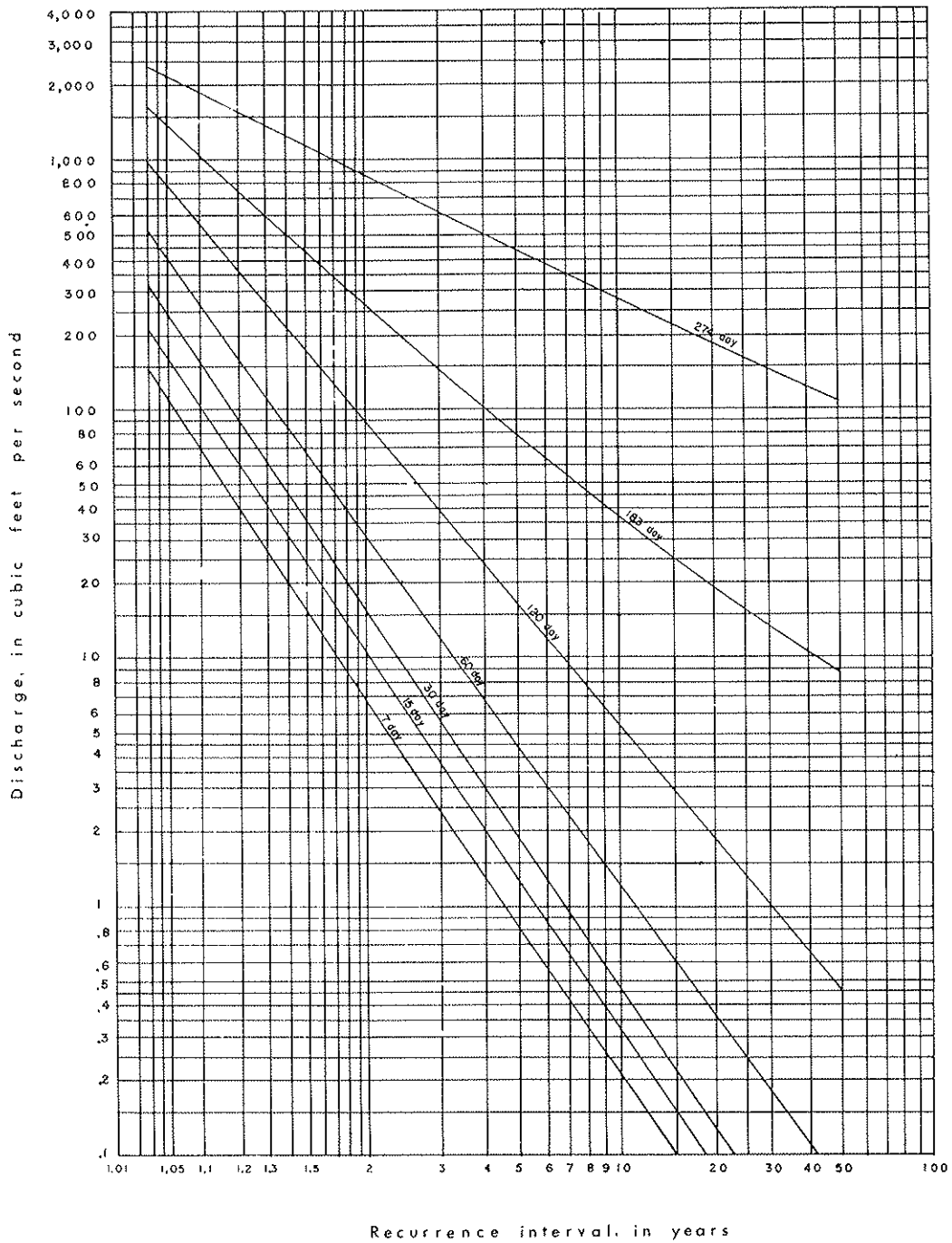


Figure 9. Low-flow frequency curves for Saline Bayou near Clarence, La., based on period 1929-58 (drainage area, 1,382 sq. mi.)

These curves do not imply irregularity of occurrence, but rather the probable average recurrence interval of a specified low flow. If the flow during the period April 1929 to March 1958 was an average of an indefinitely long period of time, these curves can be used with confidence to predict future streamflow. It is assumed the flows experienced were a good measure, and the curves are used for purposes of prediction.

For example, the curves in figure 7 show that the average minimum 7-day consecutive flow of Kelly Bayou near Hosston, La. will be insufficient to satisfy the needs of a hypothetical plant that requires 2 cfs at intervals of 4 years. And the average flow for 30 consecutive days will be insufficient at average intervals of 18 years.

### VARIATION IN LOW-FLOW CHARACTERISTICS

Presented in this report are low-flow frequency data for 68 gaging stations where streamflow records are adequate for analysis. (See tables 3 to 6), and skeletal low-flow frequency data for 118 partial-record stations.

Eventually information will be available at many other sites in Louisiana as long-range plans are carried out whereby additional short-term and partial-record sites are established to replace those where adequate information may have already been collected. To assist in the solution of problems where information is still lacking and for which there is a present need, an analysis of areal variations in low-flow frequency characteristics is presented.

#### Main-Stem Stations

On the larger streams or main stems gaging stations are spaced so that low-flow characteristics of intermediate sites can generally be estimated from curves defined for the gaging stations. For example, figure 10 (page 25), illustrates the originally adjusted natural flow curves for 120-day periods for 4 stream gaging stations along Sabine River between Logansport, La. and Ruliff, Tex. Curves for other consecutive day periods are similar. Curves for adjacent stations on other large streams in Louisiana are also similar to those for the Sabine River. Low-flow frequency curves on most large streams tend to flatten as these curves do with increase in drainage area. The spacing between curves depends upon the flow characteristics of the intervening area and is largely a function of the size of the intervening area provided radical changes in aquifer outcropping does not occur within a reach. For example, a curve depicting unregulated flow for a 120-day period at a site on the Sabine River between Bon Wier and Ruliff, Tex. would have a position between the curves for Bon Wier and Ruliff relative to the increments in drainage area.

The method of proportional spacing provides fairly reliable estimates of low-flow frequency at ungaged sites along most of the larger streams in Louisiana except where there are sudden changes in geology and in amount of aquifer outcropping, where the methods should be used with caution. The



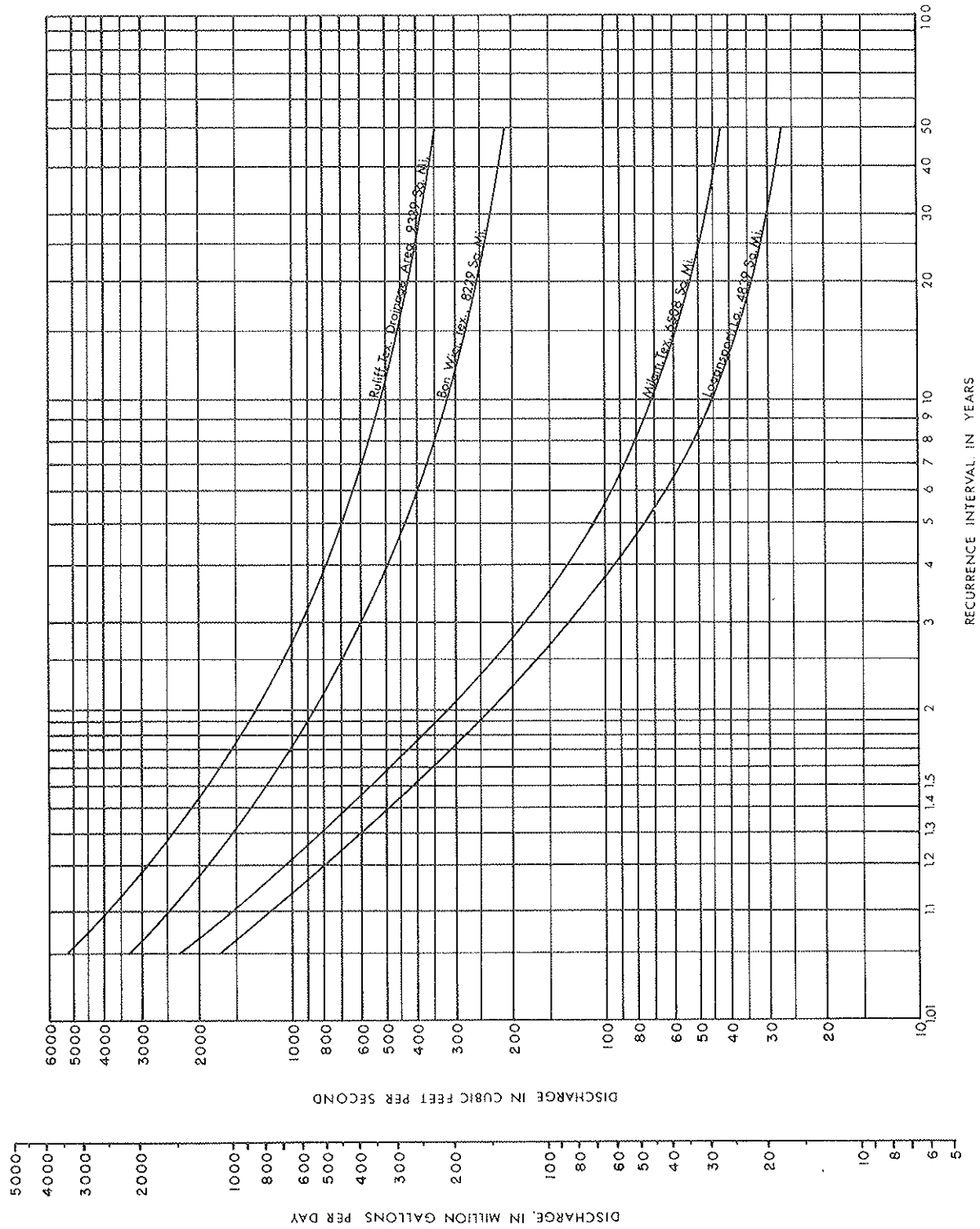


Figure 10. Expectancy of minimum unregulated flow for 120-day period of gaging stations on Sabine River between Logansport, La. and Ruliff, Tex.

Sabine River is a good example of this exception and all these factors must be taken into consideration before attempting the method of proportional spacing for arriving at estimated frequency curves for ungaged sites.

The difference in spacing between curves for Bon Wier and Milam, Tex. and between curves for Milam, Tex. and Logansport, La. for nearly equal increments of drainage area in figure 10, illustrates that proportional space between the curves for stations on large streams may not always be adequately reliable. It is apparent that the unregulated flow characteristics of Sabine River change considerably in the reach between Bon Wier and Milam, Tex. Considerable contribution from ground water coming from differing formations is known to occur in the reach and the difference was expected. Where there is a considerable difference in flow characteristics between stations, the position of the curve at an intermediate site should be defined by current meter measurements during several occurrences of base flow. With no appreciable precipitation over a basin, base-flow conditions will usually exist on streams the size of the Sabine River after about 2 weeks. The proportional difference in discharges between adjacent sites can be used to define the relative position of the frequency curves for the site of the measurements.

#### Tributary Streams

The procedure for defining frequency curves between closely spaced gaging stations on large streams is inadequate on medium-sized streams where only one or two gaging stations are operated. Also, intervening differences in geology have greater effect on the flow of medium and small streams than on large streams. Differences in geology have less significance during high flows than during low flows. Therefore, flow characteristics of medium-sized streams are much more uniform geographically at high and medium flow than they are at low flow. The effect of differences in geology can usually be so great at low flow as to require a series of base flow discharge measurements to delineate the characteristics.

Geographic variations for three indices of low flow are presented on maps in figures 11 (page 10), 12 (page 27), 13 (page 28), and 14 (page 29).

The 2-year minimum 7-day and 2-year minimum 30-day values are an indication of the position of the estimated frequency curves in the median annual low-flow range. And the ratio of Q20 and Q2 minimum 7-day flows is an indication of the slope of the frequency curve. A study of the geographic distribution of these index values is particularly helpful in defining the relation of discharges too high to be defined by the base flow measurement.

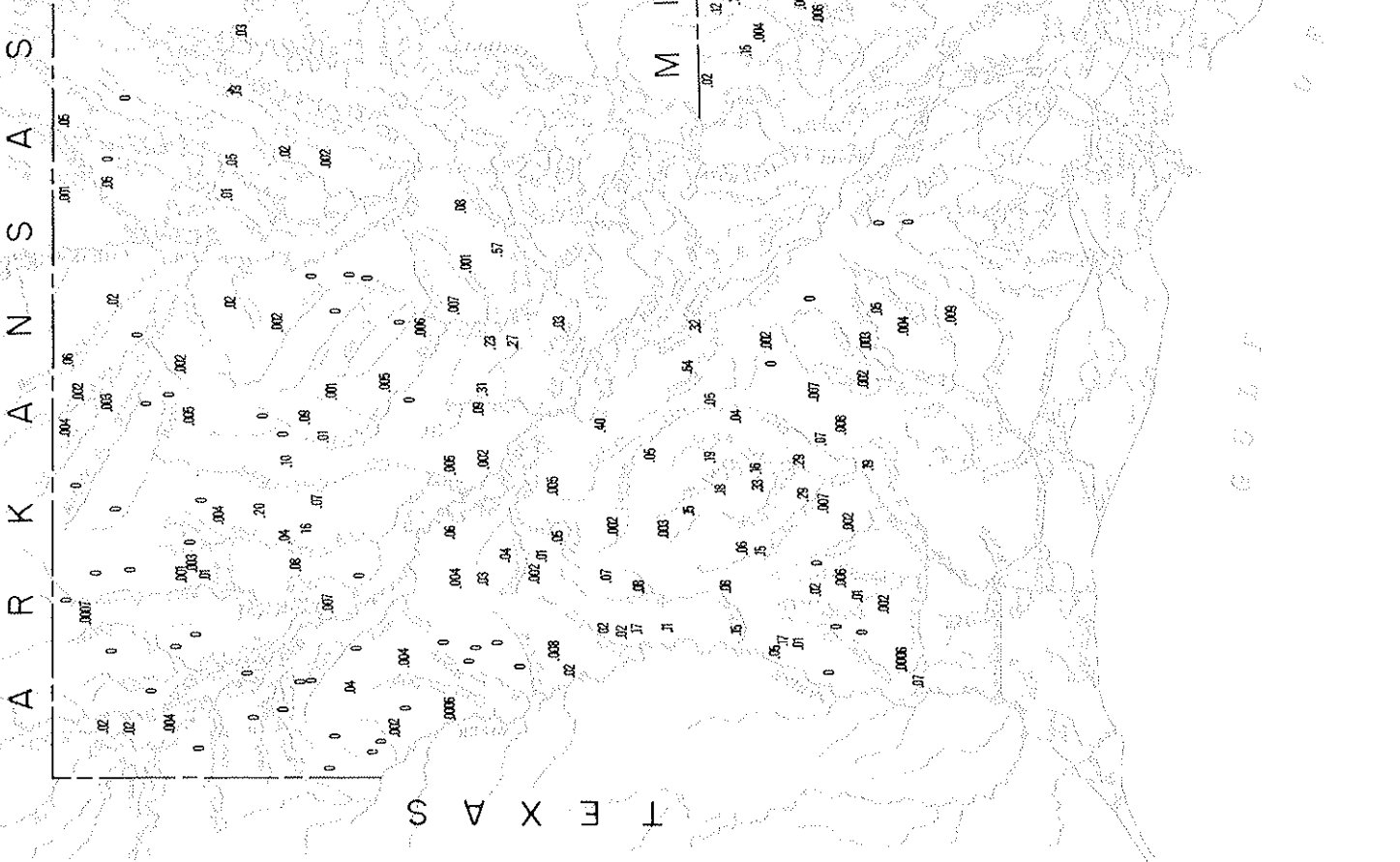
The lower portion of each low-flow frequency curve can be expected to display its own unique shape because of the effect of the many factors in its basin that influence low flow. The geographic variations described above define average regional values, but the variations between the low flows of adjacent streams is generally so great that the regional values need to be supplemented by information obtained from discharge measurements. Current meter measurements of base flow, taken simultaneously at

Figure 12. Map of median minimum 7-day discharge in cfs per square mile at gaging stations and partial-record sites.

**EXPLANATION**

- 28 Lowest 7-day mean flow of 2-year recurrence in cubic feet per second per square mile.
- Values are from regionally adjusted curves and are plotted on or beside the stream at the gaging station location.

SCALE IN MILES

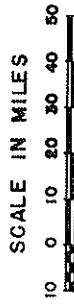


A R K A N S A S

Figure 13. Map of median minimum 30-day discharge in cfs per square mile at gaging stations and partial-record sites.

EXPLANATION

- 42 Lowest 30-day mean flow of 2-year recurrence in cubic feet per second per square mile. Values are from regionally adjusted curves and are plotted on or beside the stream of the gaging station location.



M I S S I S S I P P I

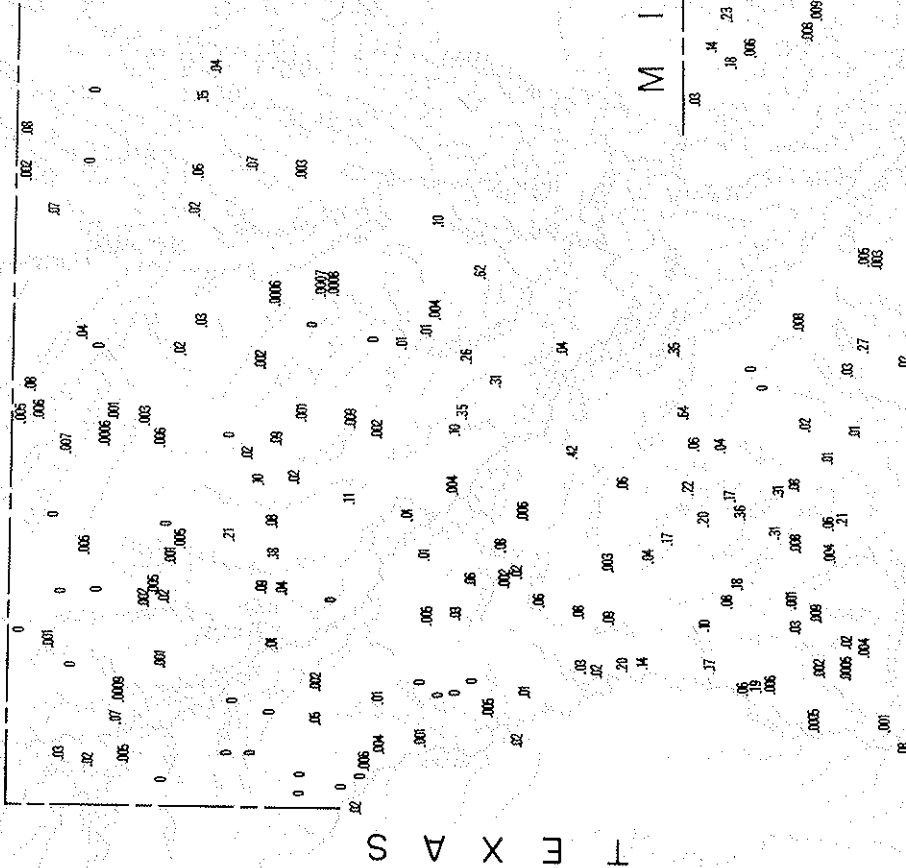
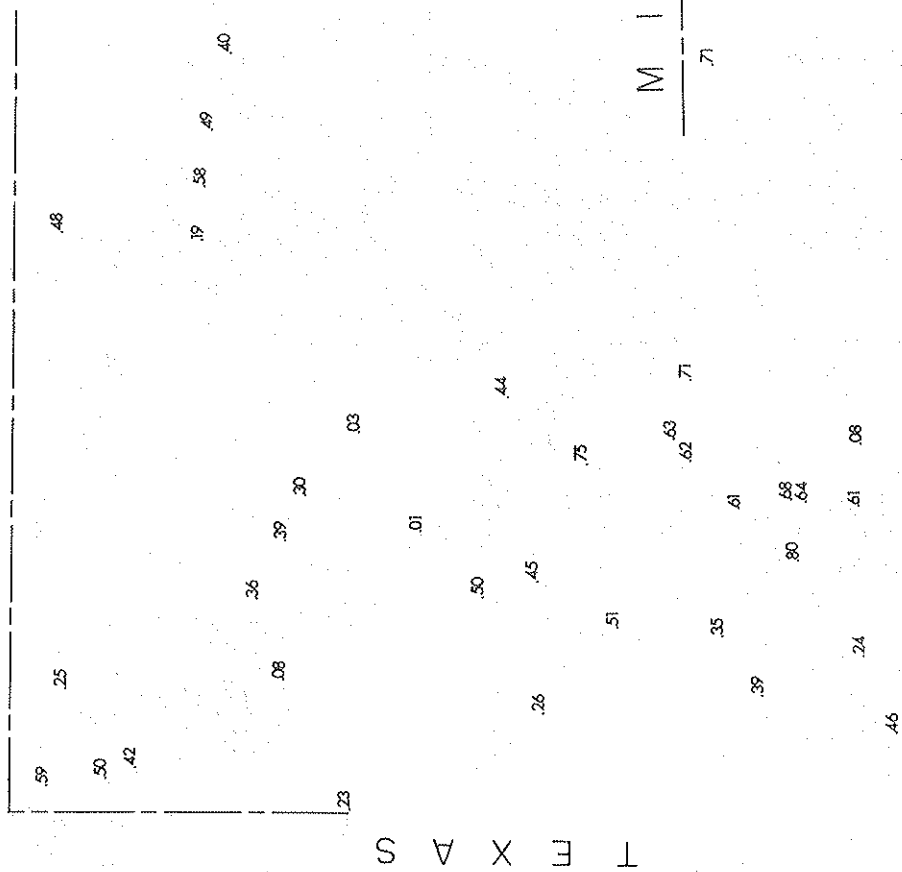


Figure 14. Map of ratio of Q20/Q2 for minimum 7-day flows at gaging station sites only.

EXPLANATION

- 7 Ratio of minimum 7-day mean flow of 20-year recurrence to minimum 7-day mean flow of 2-year recurrence.
- Values are from regionally adjusted curves and are plotted on or beside the stream at the gaging station location.

SCALE IN MILES



two nearby sites, can be used to define the low-flow relation between the two sites. Base flow is that prevailing when most of the discharge is from ground-water storage after direct surface runoff from precipitation has ceased. Measured discharges need to be finite values above zero flow. A relation of low-flow frequency values at an ungaged site to that at a gaging station defined by low base-flow discharge measurements can be used to transpose the low-flow frequency characteristics from the gaged site to the ungaged site.

#### STORAGE-REQUIRED FREQUENCY CURVES

The need for storage becomes apparent when a project requirement cannot be met by the natural minimum flow of the stream. The storage-required frequency curves presented in this report show the frequency of needed storage to maintain selected draft rates. The curves, which were computed from the low-flow frequency curves previously discussed, are shown on figures 15 (page 31) through 24 (page 40). The curves are for a selected group of stations, each with over 300 square miles drainage area that lies wholly within the State. The frequency with which given amounts of storage are required provides a basis for obtaining an economic balance between the cost of the storage and the loss caused by an insufficient supply. The comparison of the draft storage curves in figures 15 through 24 shows that on a per square mile basis there is considerable variation in storage required at points on the same stream as well as on different streams throughout the State as exemplified in the following tabulation.

Station map no.	Station name	Drainage area (sq mi)	Storage in cfs days required to maintain a draft rate of 0.05 cfs per square mile for 10-year average recurrence intervals
49	Black Lake Bayou near Castor	423	2.2
75	Bayou D'Arbonne near Dubach	355	8.1
140	Tangipahoa River at Robert	646	0
160	Comite River near Comite	332	0
196	Bayou Nezpique near Basile	527	2.5
200	Calcasieu River near Glenmora	499	0.6
202	Calcasieu River near Oberlin	753	.2
209	Whiskey Chitto Creek near Oberlin	510	0
214	Calcasieu River near Kinder	1,700	.05
253	Bayou Anacoco near Rosepine	355	.35

For a draft rate of 0.05 cfs per square mile at an average recurrence interval of 10 years, the spread in storage required is twelvefold between Calcasieu River near Kinder and near Glenmora on the same stream and fourfold between stations on adjacent basins, Black Lake Bayou and Bayou D'Arbonne, in northern Louisiana. At Tangipahoa River at Robert, in southeastern Louisiana, no storage is indicated to be necessary to meet a requirement as high as 0.2 cfs per square mile.

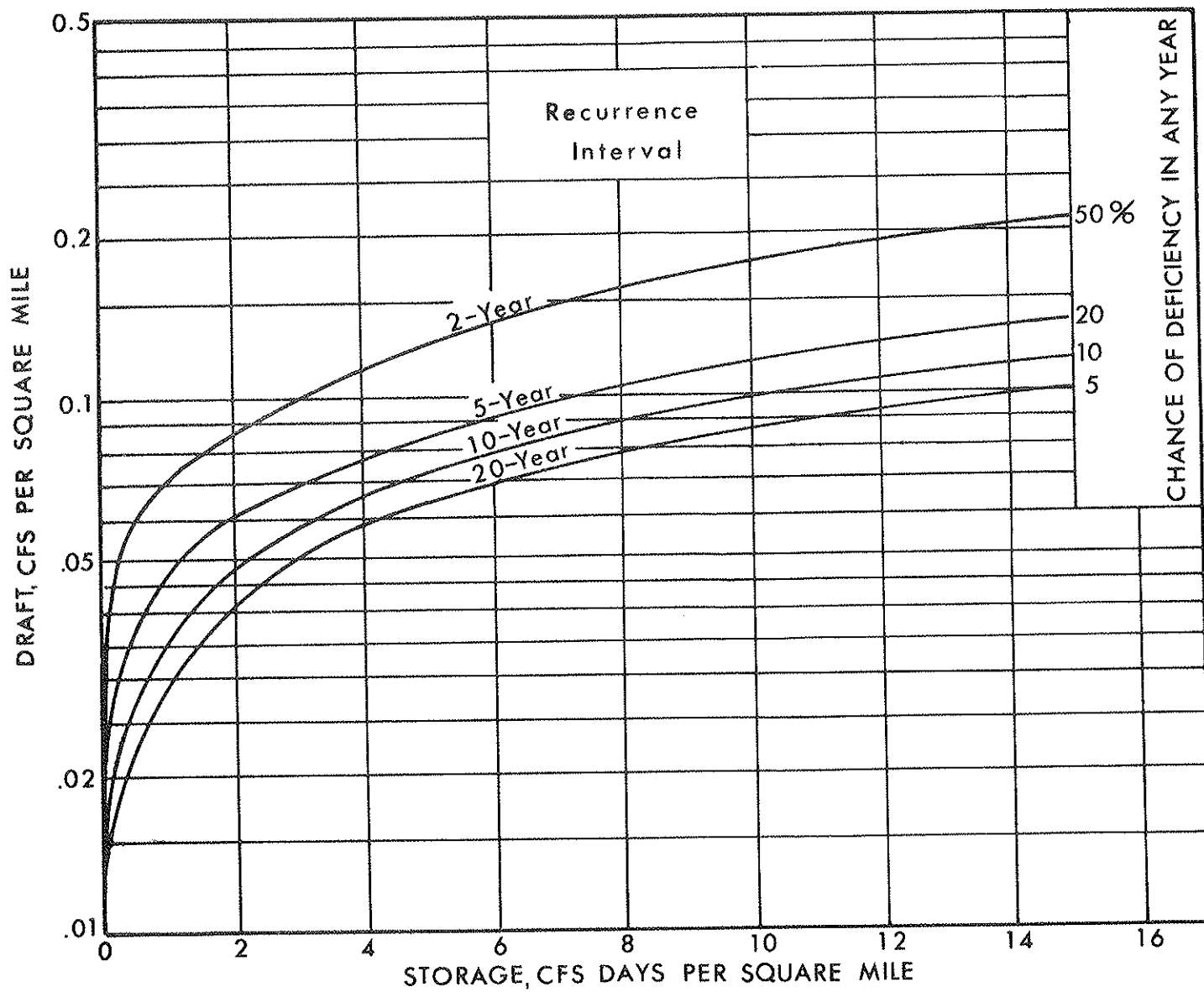


Figure 15. Draft-storage curves based on minimum discharge for selected recurrence intervals, Black Lake Bayou near Castor, La., 1929-57

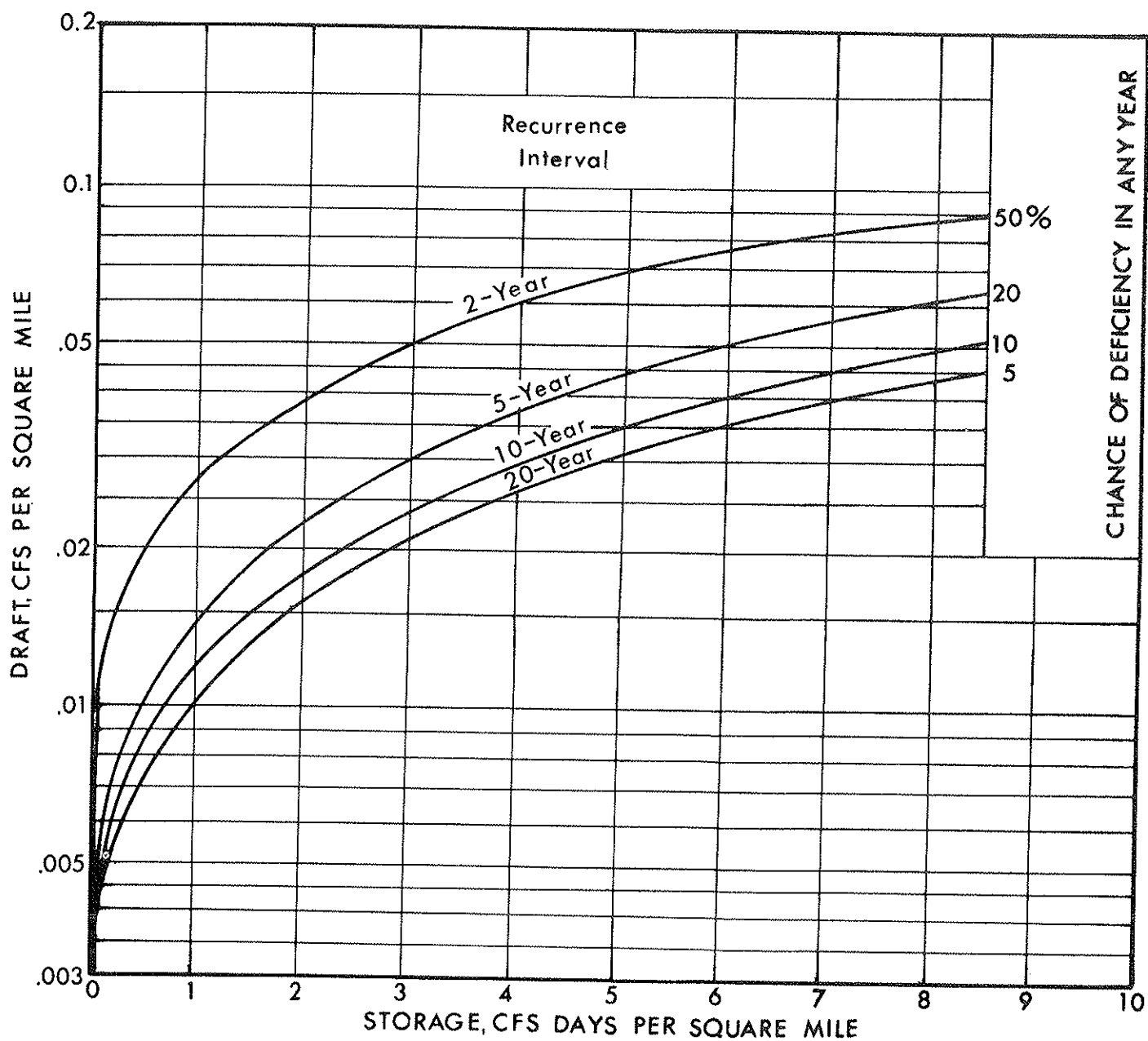


Figure 16. Draft-storage curves based on minimum discharge for selected recurrence intervals, Bayou D'Arbonne near Dubach, La., 1929-57



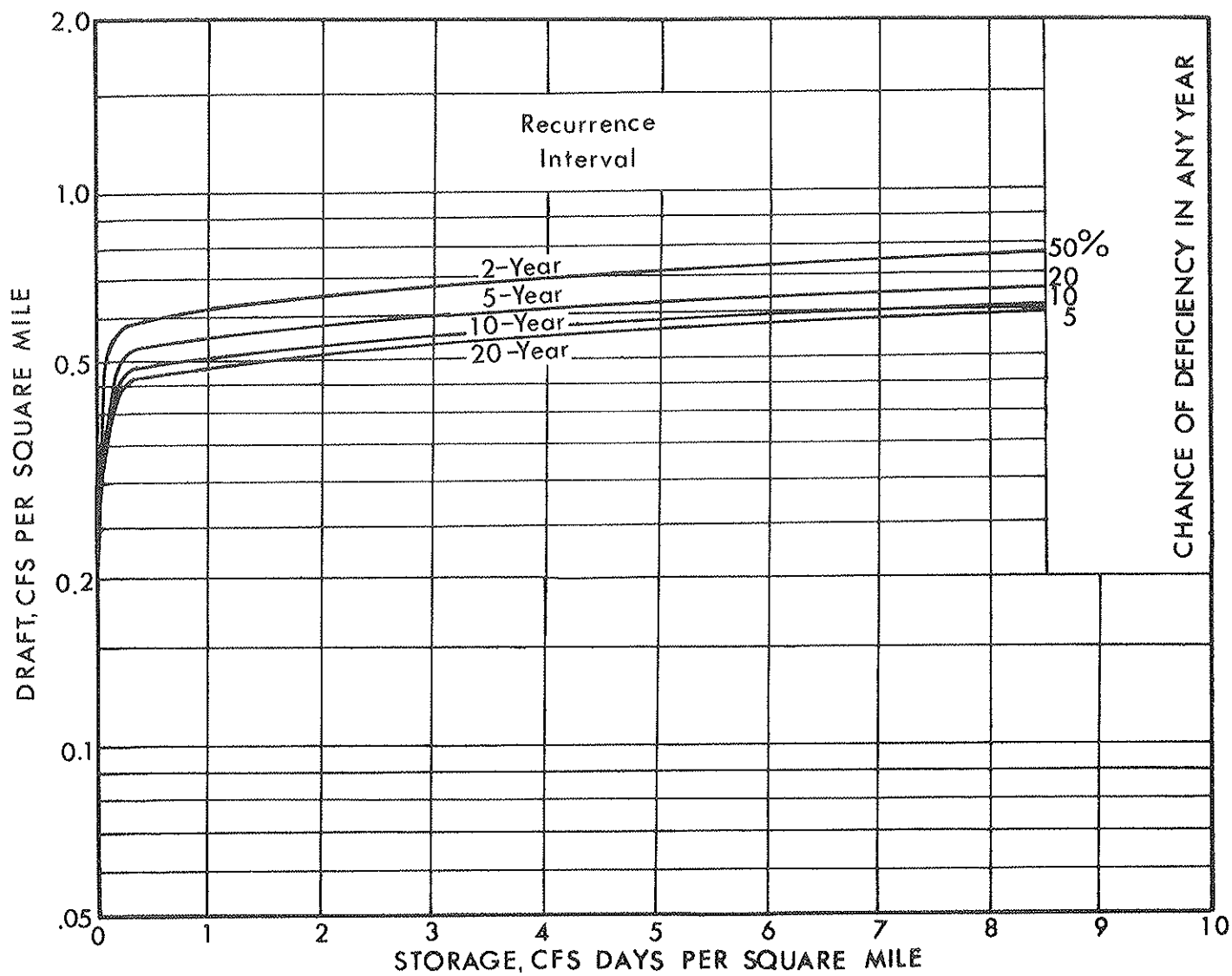


Figure 17. Draft-storage curves based on minimum discharge for selected recurrence intervals, Tangipahoa River at Robert, La., 1929-57

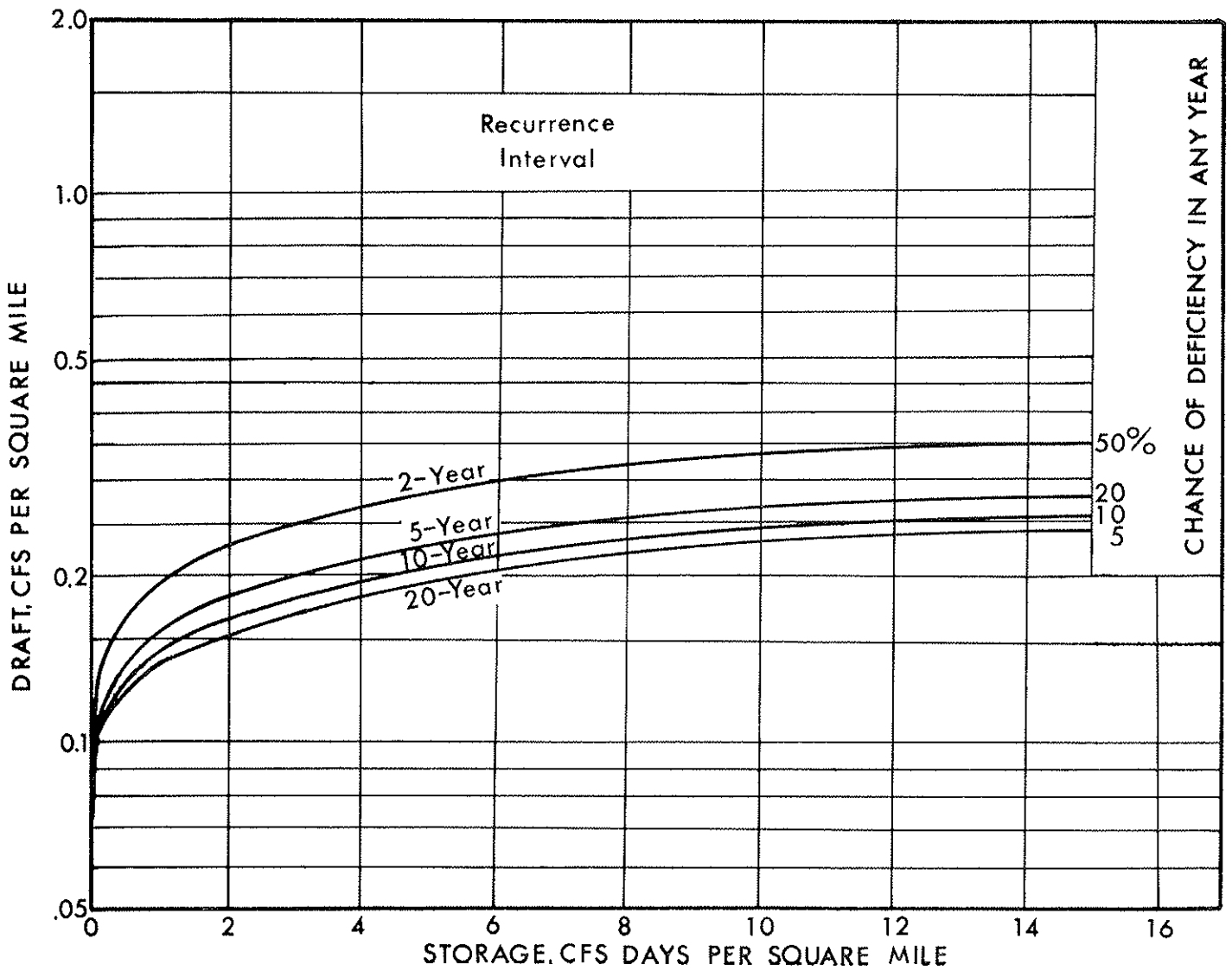


Figure 18. Draft-storage curves based on minimum discharge for selected recurrence intervals, Comite River near Comite, La., 1929-57

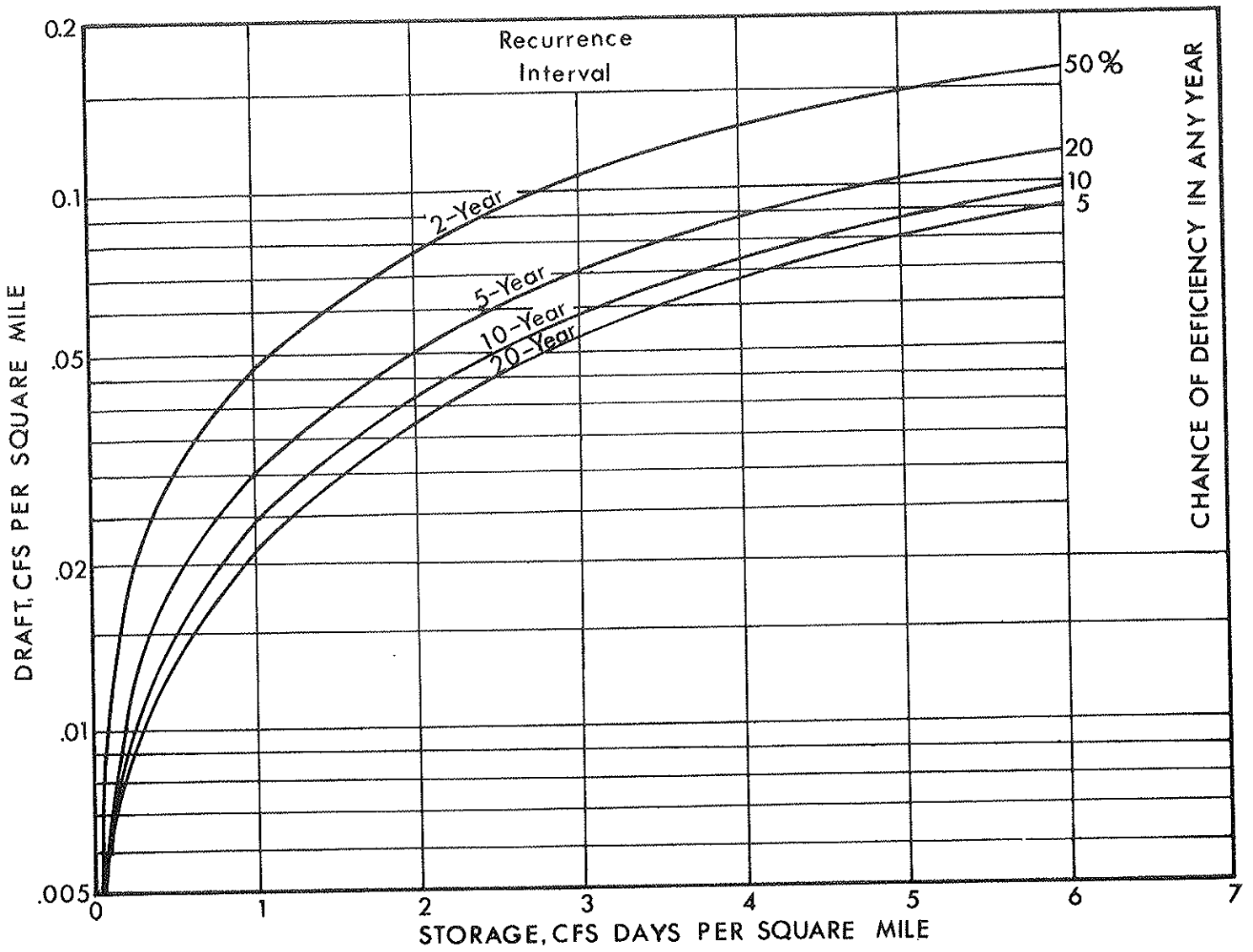


Figure 19. Draft-storage curves based on minimum discharge for selected recurrence intervals, Bayou Nezpique near Basile, La., 1929-57

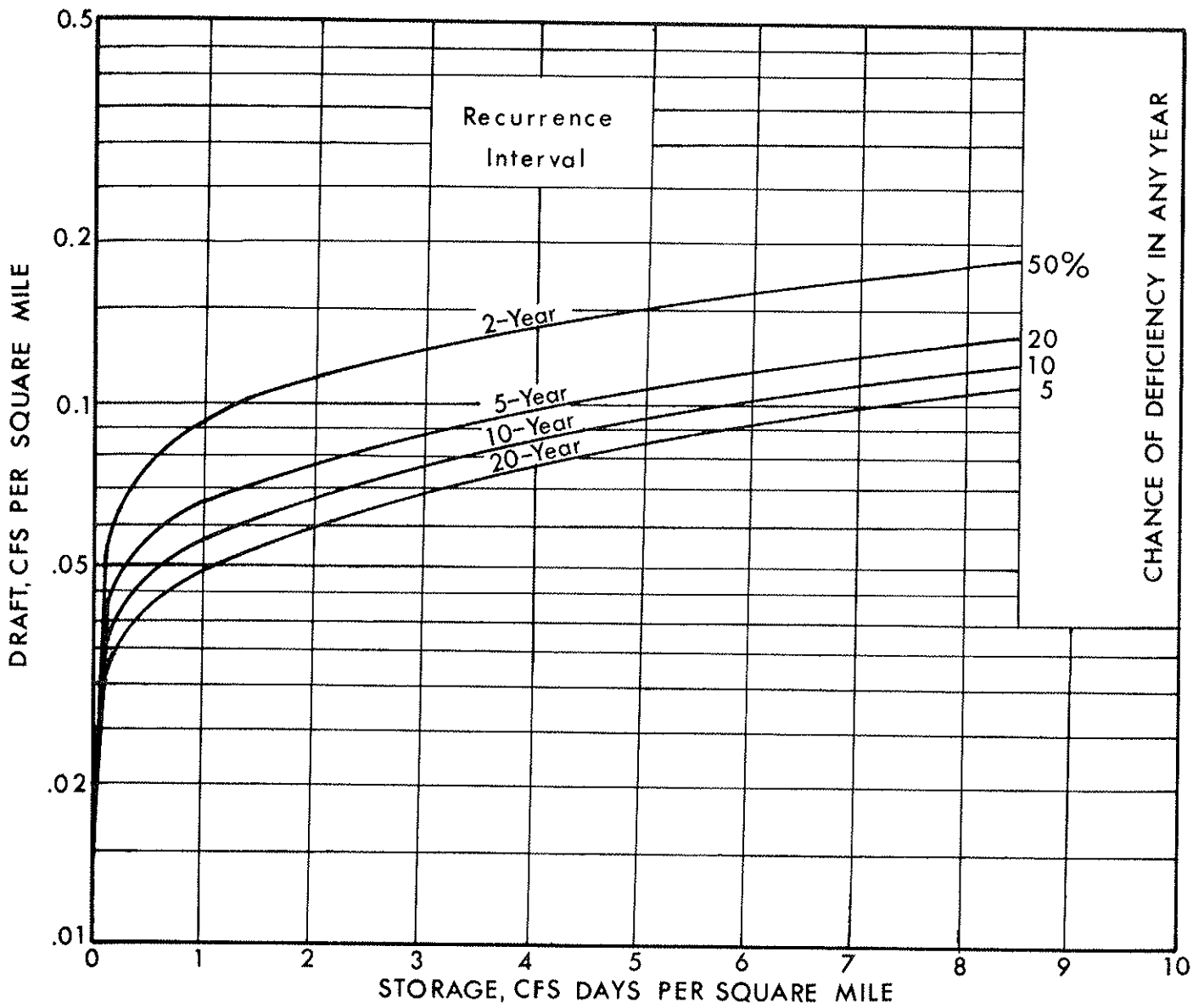


Figure 20. Draft-storage curves based on minimum discharge for selected recurrence intervals, Calcasieu River near Glenmora, La., 1929-57

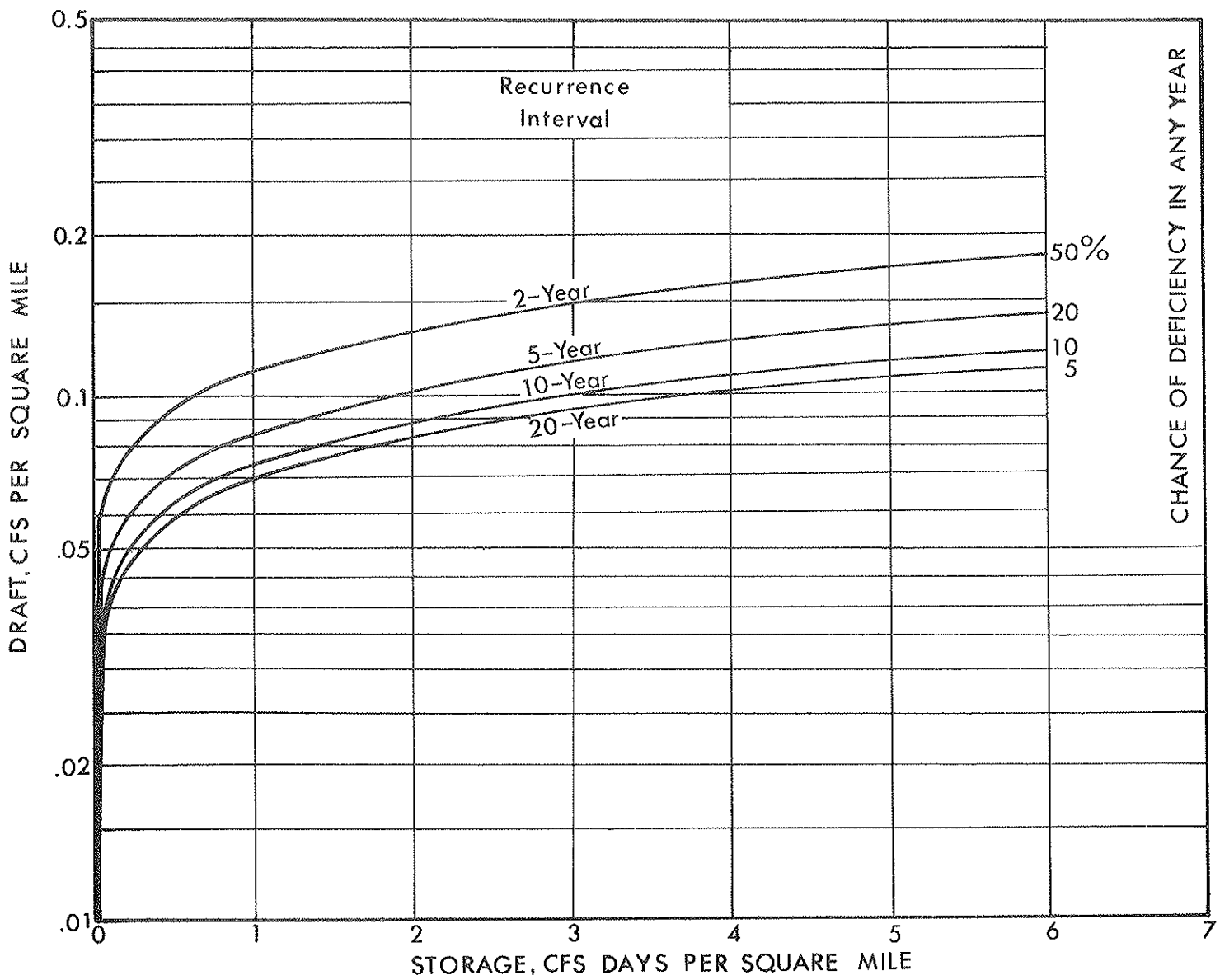


Figure 21. Draft-storage curves based on minimum discharge for selected recurrence intervals, Calcasieu River near Oberlin, La., 1929-57

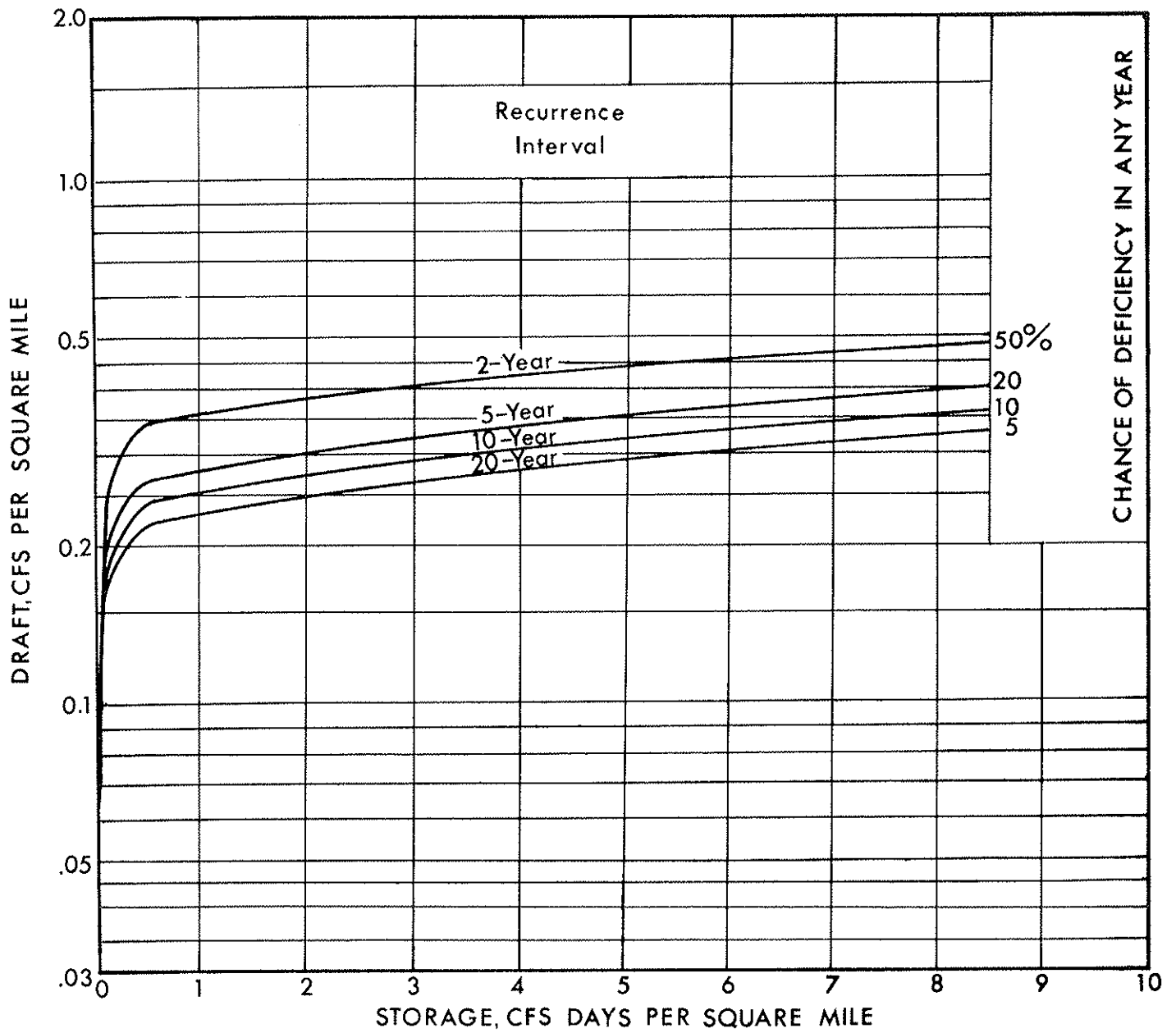


Figure 22. Draft-storage curves based on minimum discharge for selected recurrence intervals, Whiskey Chitto Creek near Oberlin, La., 1929-57

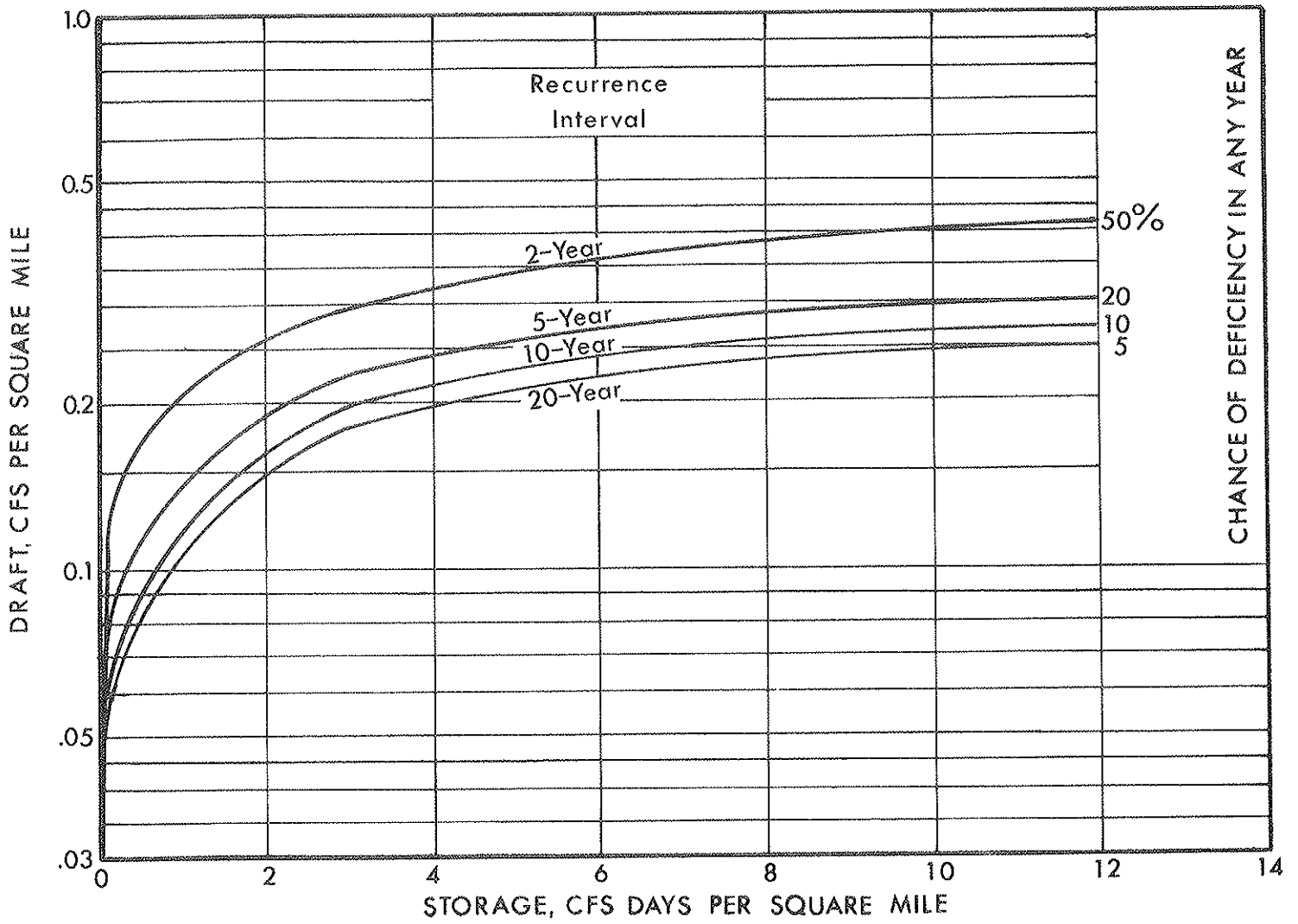


Figure 23. Draft-storage curves based on minimum discharge for selected recurrence intervals, Calcasieu River near Kinder, La., 1929-57

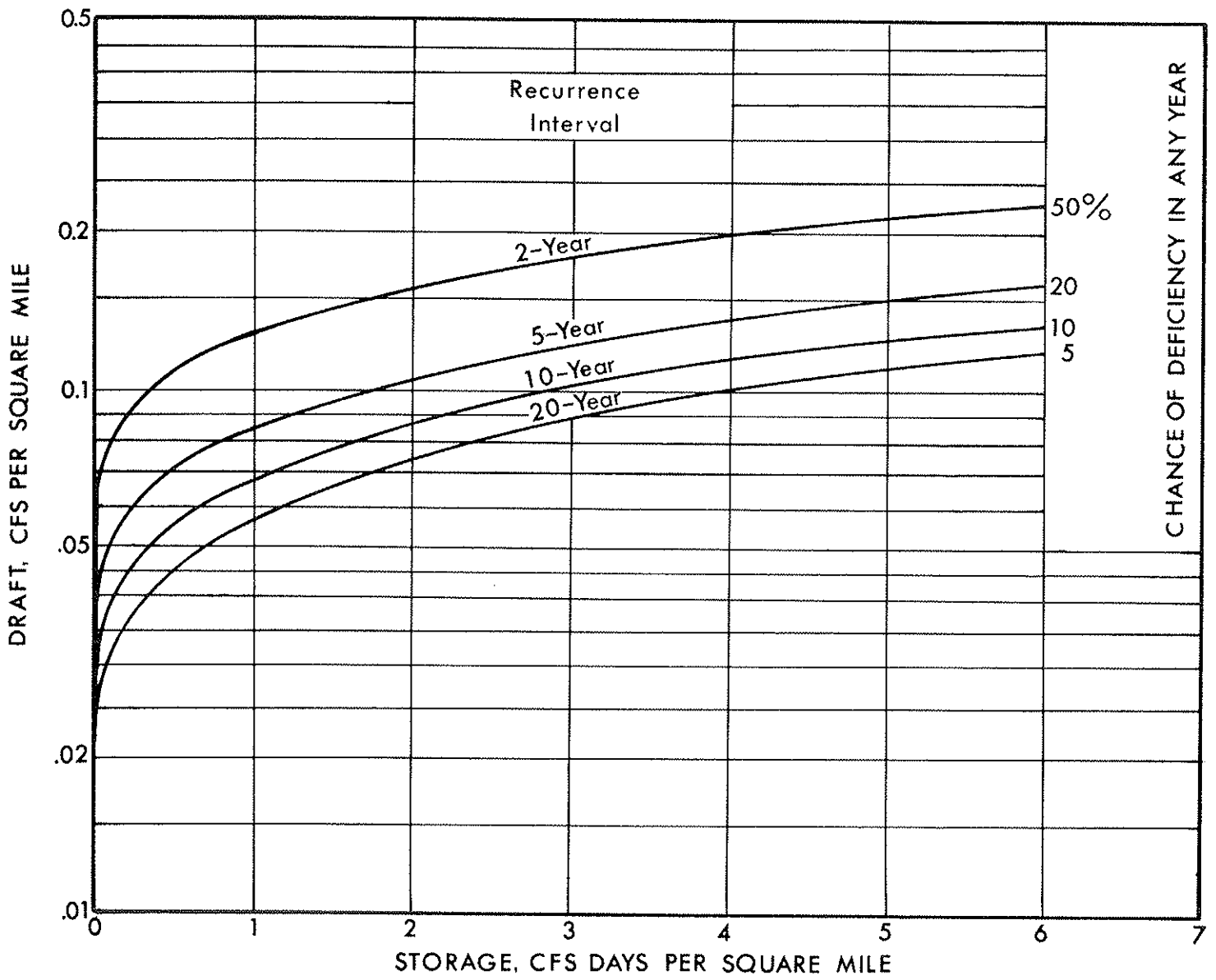


Figure 24. Draft-storage curves based on minimum discharge for selected recurrence intervals, Bayou Anacoco near Rosepine, La., 1929-57



The storage-required computations used in developing these curves are based on frequency-mass curves such as shown in figure 25 (page 42). The curved line in this figure is based on discharge taken from the low-flow frequency curves, and the area underneath this curve represents the natural flow available. The volume of discharge for the 30-day period, for example, was obtained by multiplying the minimum 30-day discharge for the 10-year recurrence interval for station 49 in table 3 (8.0 cfs) by 30 days to obtain 240 cfs. Similar computations for other periods of consecutive days provide the data needed to define the frequency-mass curve. Draft rates for selected amounts of storage were computed as shown in figure 25 and used to define curves such as shown in figures 15-24.

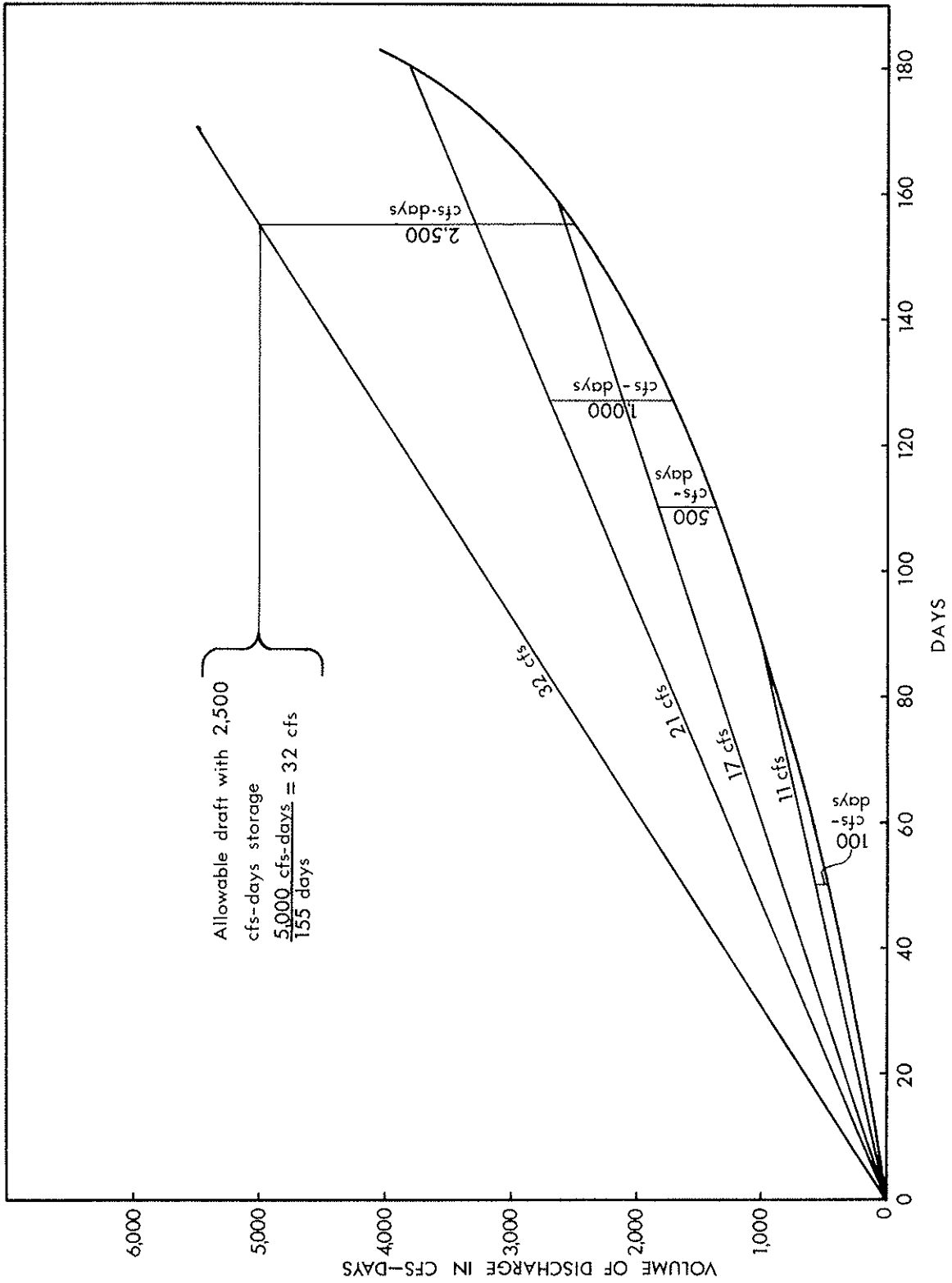
A correction must be made separately for losses due to evaporation and seepage from any reservoir, as the storage required curves do not account for such losses. The curves also have a bias of about 10 percent that results from the use of the frequency-mass curve in their development. In consequence the curves indicate a required storage smaller than required and the two corrective factors must not be overlooked in a final design. The curves may be used directly to serve for reconnaissance planning and for comparison between stations (Hardison and Martin, 1961).

The use of a frequency-mass curve to develop a storage required curve creates the bias because a critical period of definite length does not actually prevail, although such is assigned to each draft rate and recurrence interval. Actually the length of a critical period for a given draft rate and recurrence interval varies about the average value for that draft rate and recurrence interval. In figure 15, for example, the critical period (length of time to maximum drawdown) for a draft of 0.1 cfs per square mile at a recurrence interval of 10 years is 10.2 days. If the amount of storage required to supply 0.1 cfs per square mile each year were computed from yearly mass curves, the length of the critical period for a 10-year recurrence interval would probably be about 10 percent greater than the 10.2 days determined from the frequency-mass curve (fig. 25).

#### AREAL DRAFT-STORAGE RELATIONS

This section deals primarily with estimating relations at sites having little discharge information and the relations introduced are for reconnaissance purposes only. A more detailed study should be made for each site tentatively selected for use on basis of these relations.

The amount of storage required to provide selected rates of allowable draft can be estimated from the variability index, the size of drainage area, and the mean flow of a stream. Estimates can be made by use of curves as shown in figures 26 (page 43) through 28 (page 45). The graphs shown in figures 26 and 27 present generalized sets of curves expressing the relation between regulated flow and required storage based on storage required-frequency curves for gaging stations as developed in the previous section. The ordinate is regulated flow expressed in ratio to the mean; the abscissa is the required storage capacity in days at the mean flow rate, and the parameter is the variability index discussed in a previous section on flow duration. Values of variability index have been computed for each gaging



F Figure 25. Frequency-mass curve and storage-draft lines for a 10-year recurrence interval, Black Lake Bayou near Castor, La.

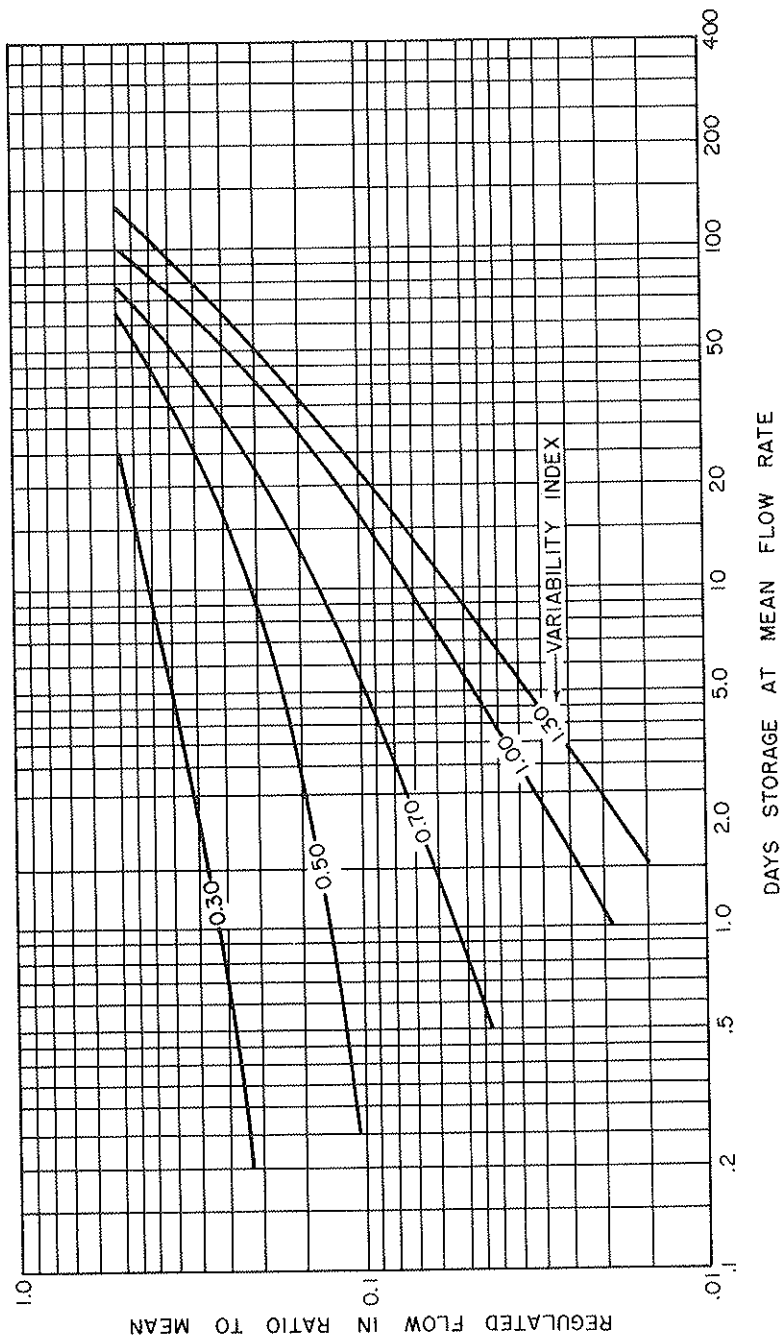


Figure 26. Storage required for streamflow regulation during periods of low flow equal to the low flow of 1 year in 10

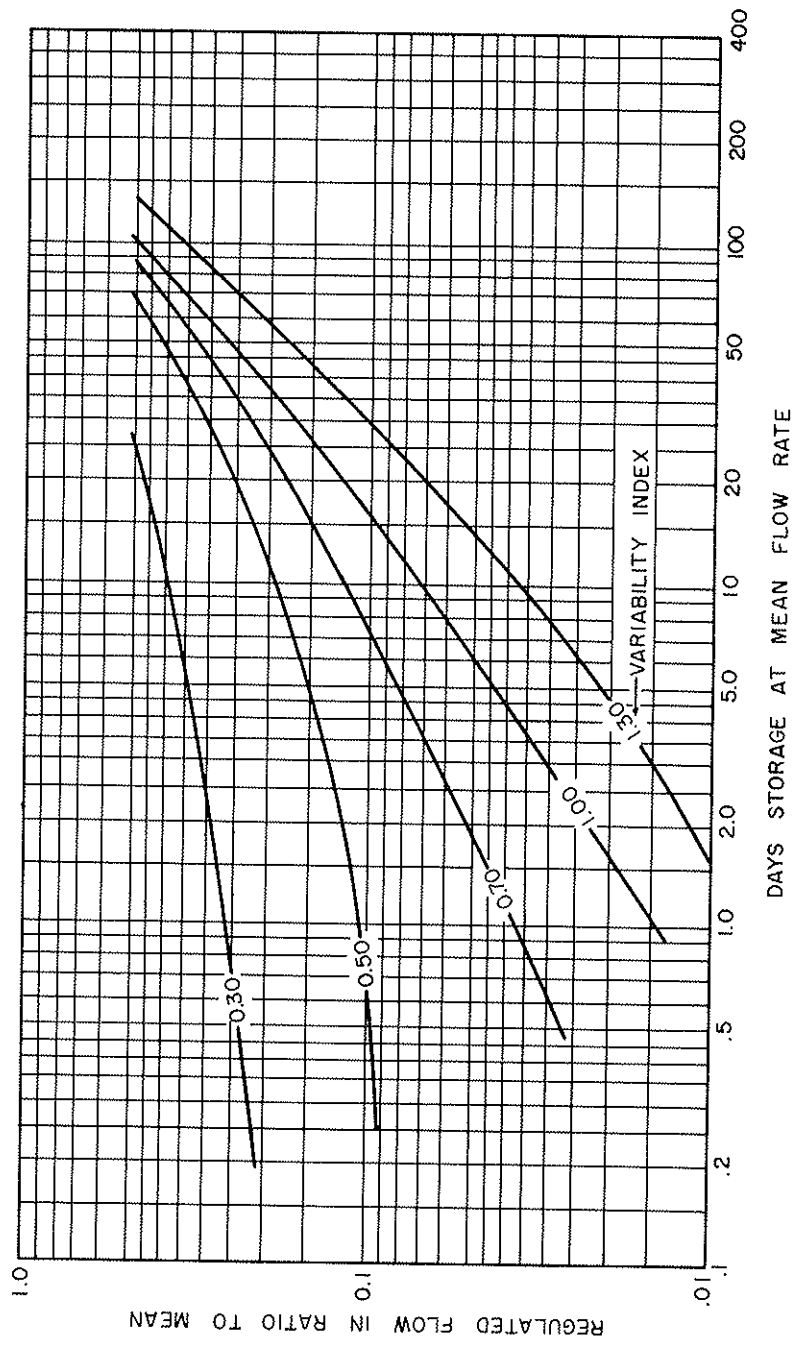


Figure 27. Storage required for streamflow regulation during periods of low flow equal to the low flow of 1 year in 20

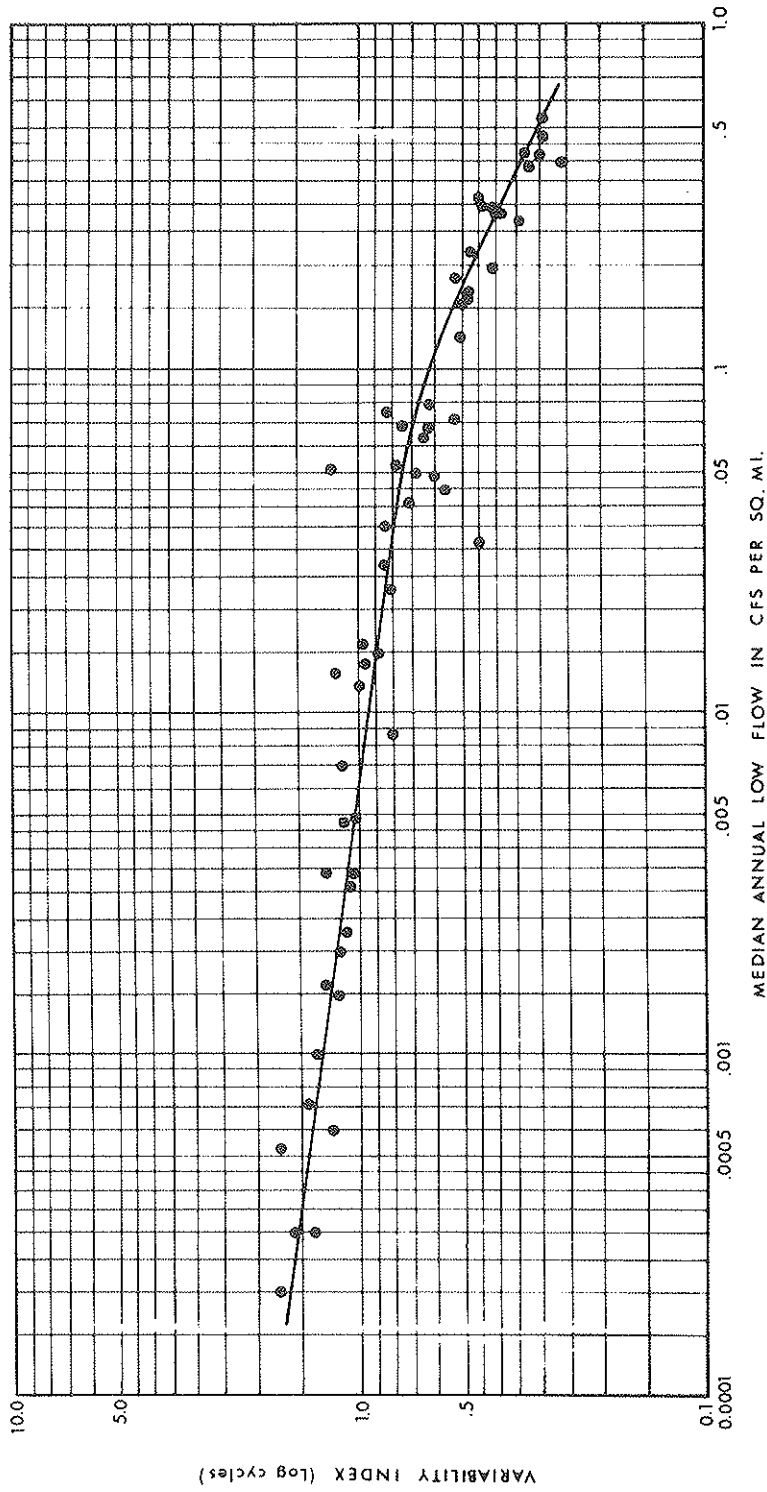


Figure 28. Relation of median annual 7-day low flow in cfs per square mile to variability index

station and appear in table 2. Storage capacity, reported in days flow at the mean rate, represents the volume required to store the mean flow of the stream for the specified number of days. Thus, a capacity of 10 days is a volume equal to a flow of 10 days at the mean rate.

In constructing the figures, varying results for different streams were averaged and smooth curves drawn. Part of the differences represent inherent differences among the streams, and part is due to the behavior of each stream during the particular period of streamflow record. These curves average out the various components with respect to both time and place which restricts their usefulness. However, even though curves such as these may not be applied to any particular stream, or a particular period of years, they can be used in a general way to obtain estimates of storage needed for short-term regulation of streams.

It will be noted that the curves (figs. 26 and 27) show that required storage increases greatly with increase in the variability index and with increase in the regulated flow.

The variability index characteristic of sites other than at gaging stations can be estimated by determining an approximate value for the median annual 7-day low flow and entering the curve in figure 28 which represents the relation of median annual 7-day low flow in cfs per square mile to variability index.

The variation in the values shown in figure 12 shows the danger of making decision estimates of median annual low flows without some observed basic data at the site. The median annual low flows for 214 stations range from zero to 0.57 cfs per square mile and vary widely between adjacent streams in all parts of the State with a general tendency to increase from north to south. A few discharge measurements made under base flow conditions would help identify the flow characteristics of the stream and make it possible to make a much more reliable estimate of the median annual low flow as explained in the last paragraph under "Tributary Streams" in the section "Variation in Low-Flow Characteristics."

Given the mean flow and the variability characteristic of an area, an estimate may be made of the storage required to sustain flows of increasing magnitude.

For most stream-gaging stations in Louisiana for which storage-required frequency curves are not available, the amount of storage required to maintain a required flow can be roughly estimated by use of the variability index and the mean flow determined from table 2 and the use of figures 26 and 27.

For example, assume a 10-year frequency flow of 29 cfs is required for Tenmile Creek near Elizabeth. From table 2, the mean discharge is 143 cfs and the variability index is 0.50. The ratio of regulated flow to mean is  $29 \div 146$  of .20. Entering fig. 26 with this ratio and the variability index to .50 gives a storage required of about 9 days at the mean discharge of 143 or 1,287 cfs days, which is equivalent to about 2,570 acre-feet.

Estimating the amount of storage required for ungaged sites in Louisiana requires that an estimate be made of the mean flow and the median annual low flow for the site. The mean flow can be estimated by using the map of mean streamflow shown in figure 29 (page 48). The variation in average annual runoff or flows is not nearly as great as the variation in median annual 7-day low flows and can be estimated with a reasonable degree of accuracy for most sites within reasonable distance of gaging stations.

For example, assume a 10-year frequency flow of 5 cfs is required for Dukedall Creek near Danville where sufficient base flow measurements have been made to reasonably estimate the median annual 7-day low flow by techniques discussed in previous sections. From table 7, the median annual 7-day low flow is 2.0 cfs and the drainage area is 19.5 square miles. The median annual low flow in cfs per sq. mi. is  $2.0 \div 19.5$  or .10. Entering fig. 28 with this value gives a variability index of about .62. From fig. 29 one sees that the mean streamflow in this vicinity averages 1.4 cfs per square mile which computes to be  $1.4 \times 19.5$  or about 27 cfs for the site. The ratio of regulated flow to mean is  $2 \div 27$  or .074. Entering fig. 26 with this ratio and the variability index .62 gives a storage required of about .8 days at the mean discharge of 27 or 22 cfs days, which is equivalent to about 44 acre-feet.

#### CONCLUSIONS

As can be seen from the map in figure 30 (page 49) showing the low-flow potential of the smaller streams, the areas of good, fair, poor, and no flow form a heterogeneous pattern over the State. The variability of low-flows is very great and unit flows vary widely between adjacent streams in all parts of the State but do tend to increase from North to South.

Most of the streams in the Florida parishes have relatively high base flow ranging up to as much as 0.5 cfs per square mile. The highest unit low-flow yields occur in the south-central part of the State southwest of Alexandria where several small streams have 7-day,  $Q_2$  values ranging between 0.6 and 0.9 cfs per square mile. Low-flow yields in the northern part of the State range from no sustained base flow to only a Fair or Poor classification.

Figure 29. Map of mean streamflow in cfs per square mile in Louisiana, 1929-58.

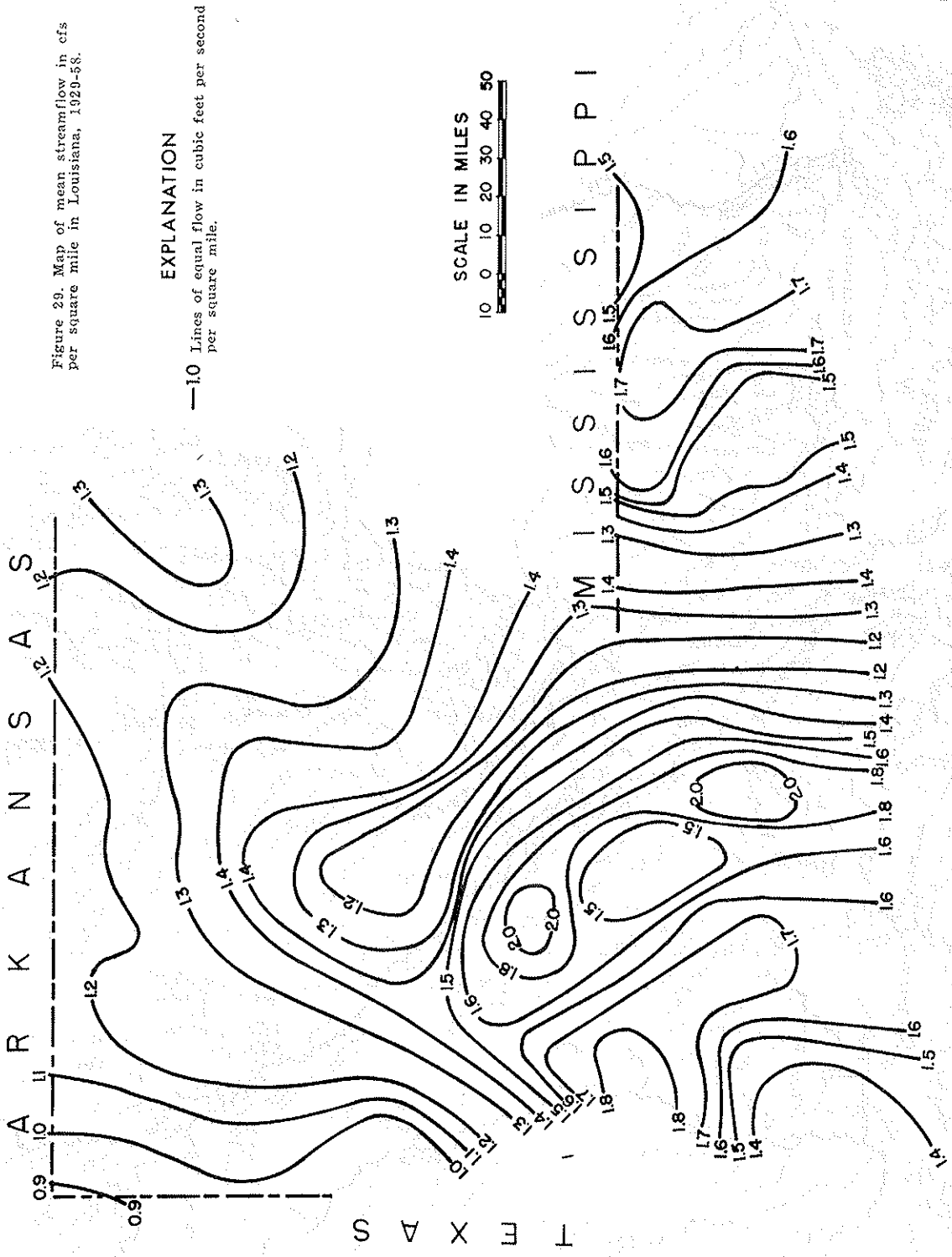
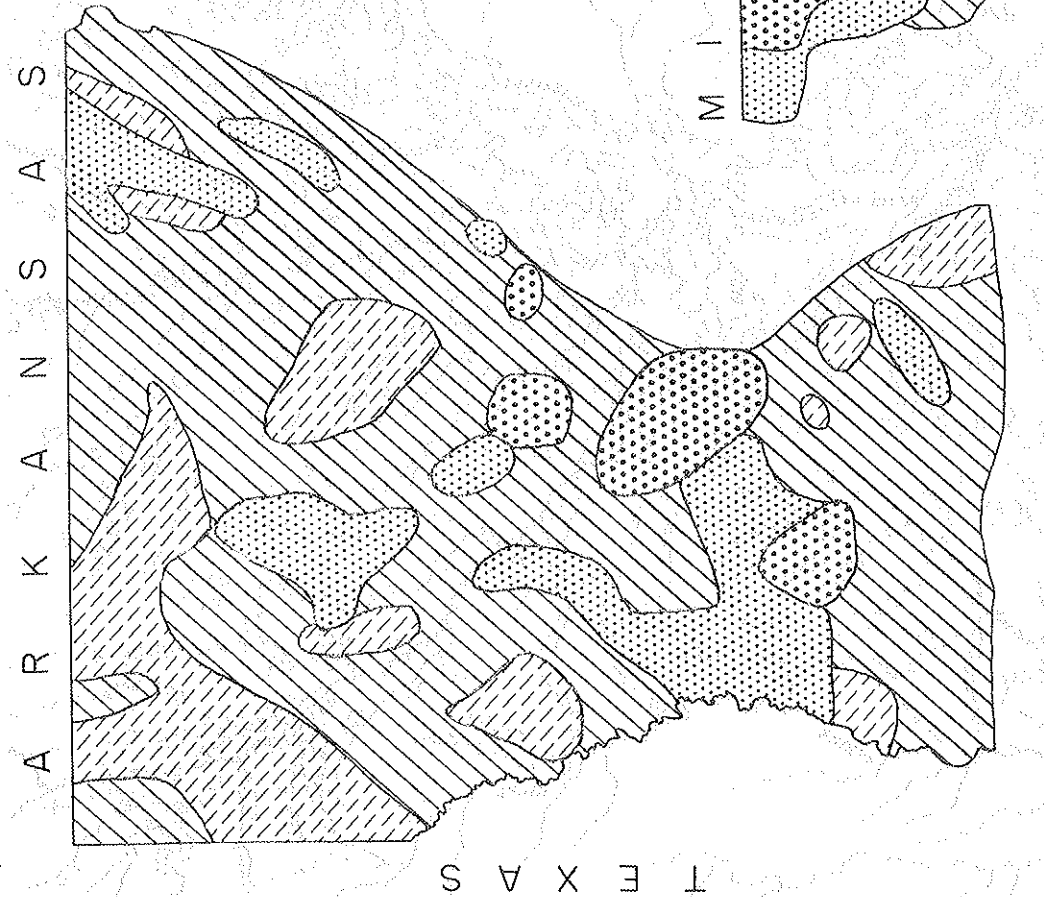
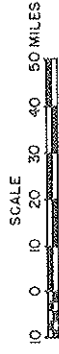




Figure 30. Map showing low-flow potential of the smaller streams.

EXPLANATION

CLASS OF FLOW	C.F.S. PER SQUARE MILE (BASED ON 7-DAY 92 DISCHARGE)
	GOOD-----GREATER THAN 0.20
	FAIR-----0.05 TO 0.20
	POOR-----LESS THAN 0.05
	NO SUSTAINED FLOW---0
	UNDEFINED



M I S S I S S I P P I

A R K A N S A S

T E X A S

STATE OF LOUISIANA

#### REFERENCES

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- Lane, E. W., and Lei, Kai, 1950, Streamflow variability: Am. Soc. Civil Engineers Trans., v. 115, p. 1084-1134.
- Mesnier, G. N., Oltman, R. E., and Langbein, W. B., Reservoir Storage for Short-Period Streamflow Regulation: U.S. Geol. Survey Professional Paper 424-D, p. D-12-D-13.
- Searcy, J. K., 1959, Flow-duration curves: U.S. Geol. Survey Water-Supply Paper, 1542-A, p. 1-33.

## STATION DESCRIPTIONS

## GAGING STATIONS

3. Pearl River near Bogalusa, La. (02B-4895.00)  
 Location.--Lat 30°47'35", long 89°49'15", on line between sec.17 and 18, T. 3 S., R. 14 E., near right bank on downstream side of bridge on State Highway 10, 2 miles east of Bogalusa, and 2 miles upstream from Bogue Lusa Creek.  
 Drainage area.--6,630 sq mi.  
 Records analyzed.--1939-58.  
 Remarks.--A primary station regionally extended to the base period by stations 02B-4790.00 and 02B-4860.00.
4. Bogue Lusa Creek near Franklinton, La. (02B-4900.00)  
 Location.--Lat 30°52'05", long 90°00'10", in NE1/4NW1/4 sec.39 (revised), T. 2 S., R. 12 E., St. Helena meridian, near right bank at downstream side of bridge on State Highway 10 at Sheridan Store, 0.75 mile upstream from Witches Creek, and 9 miles east of Franklinton, La.  
 Drainage area.--12.1 sq mi.  
 Records analyzed.--1949-58.  
 Remarks.--A secondary station regionally extended to the base period by station 02B-4920.00.
7. Bogue Chitto at Franklinton, La. (02B-4915.00)  
 Location.--Lat 30°50'35", long 90°09'45", in SE1/4SE1/4 sec.26, T. 2 S., R. 10 E., at bridge on State Highway 10, 0.75 mile west of Franklinton, and 3.5 miles upstream from Lawrence Creek.  
 Drainage area.--958 sq mi.  
 Records analyzed.--1929-31, 1939-57.  
 Remarks.--A secondary station regionally extended to the base period by station 02B-4920.00.
9. Bogue Chitto near Bush, La. (02B-4920.00)  
 Location.--Lat 30°37'45", long 89°53'50", in T. 5 S., R. 13 E., near center of span on downstream side of bridge on State Highway 21, 0.2 mile downstream from Gulf, Mobile, and Ohio Railroad bridge, and 1.4 miles north of Bush, La.  
 Drainage area.--1,210 sq mi.  
 Records analyzed.--1938-58.  
 Remarks.--A pivot station used in regionally extending both primary and secondary stations to the base period.
11. Mississippi River near Vicksburg, Miss. (07-2890.00)  
 Location.--Lat 32°18'45", long 90°54'25", in T. 16 N., R. 3 E., Washington meridian, over cavity of fourth pier from left bank at combined highway and railway bridge of Vicksburg Bridge Commission of Warren County, at southern city limits of Vicksburg, 1.5 miles downstream from Yazoo diversion canal, and at mile 430.4.  
 Drainage area.--1,144,500 sq mi, approximately.  
 Remarks.--Records not analyzed for low-flow characteristics as they do not reflect hydrologic character of areas in Louisiana.
12. Red River near Hosston, La. (07-3444.00)  
 Location.--Lat 32°53'35", long 93°49'20", in SW1/4 sec.16, T. 22 N., R. 14 W., in second pier from right abutment of bridge on State Highway 2, 1.8 miles downstream from Dry Bayou and 3.2 miles east of Hosston, La.  
 Drainage area.--57,041 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.  
 Remarks.--Records not analyzed for low-flow characteristics as no single period is representative of natural streamflow regimen due to changing effects of upstream regulation.
14. Black Bayou near Hosston, La. (07-3465.00)  
 Location.--Lat 32°52'55", long 93°53'55", in SE1/4 sec.22, T. 22 N., R. 15 W., at bridge on State Highway 109, 75 ft below Black Bayou Dam, 1 mile upstream from an unnamed tributary, and 1.25 miles west of Hosston.  
 Drainage area.--231 sq mi.  
 Remarks.--Record too short for satisfactory correlations to define low-flow characteristics.
15. Kelly Bayou near Hosston, La. (07-3470.00)  
 Location.--Lat 32°51'25", long 93°52'20", in SW1/4NE1/4 sec.36, T. 22 N., R. 15 W., near center of span on downstream side of bridge on U.S. Highway 71, 0.4 mile downstream from Willow Lake lateral, 2.0 miles south of Hosston, La., and 2.7 miles upstream from mouth.  
 Drainage area.--116 sq mi.  
 Records analyzed.--1945-58.  
 Remarks.--A secondary station regionally extended to the base period by stations 07-3495.00, 02B-4920.00, 08-0225.00 and 07-3635.00.
16. Black Bayou near Gilliam, La. (07-3475.00)  
 Location.--Lat 32°48'55", long 93°52'15", in SE1/4NW1/4 sec.13, T. 21 N., R. 15 W., at bridge on State Highway 170, 0.2 mile downstream from Red Bayou, and 2 miles southwest of Gilliam.  
 Drainage area.--364 sq mi.  
 Records analyzed.--1943-58.  
 Remarks.--A secondary station regionally extended to the base period by stations 07-3495.00, 02B-4920.00, 08-0225.00, and 07-3635.00.

## GAGING STATIONS

17. Twelvemile Bayou near Dixie, La. (07-3480.00)  
 Location.--Lat 32°38'45", long 93°52'40", in NW1/4NW1/4 sec. 14, T. 19 N., R. 15 W., near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mile downstream from Cottonwood Bayou, 4.2 miles southwest of Dixie, La., 5.5 miles downstream from Caddo Lake, and 17.3 miles upstream from mouth.  
 Drainage area.--3,137 sq mi.  
 Records analyzed.--1943-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3490.00.
18. Paw Paw Bayou near Greenwood, La. (07-3482.00)  
 Location.--Lat 32°31'00", long 93°58'20", in SE1/4 sec. 26, T. 18 N., R. 16 W., near center of span on downstream side of bridge on State Highway 169, 1 mile upstream from Cross Lake, 5.1 miles north of Greenwood, and 11 miles west of Shreveport.  
 Drainage area.--78 sq mi.  
 Records analyzed.--1956-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
20. Bayou Dorcheat near Springhill, La. (07-3487.00)  
 Location.--Lat 32°59'40", long 93°23'45", in NE1/4NE1/4 sec. 16, T. 23 N., R. 10 W., near left bank on downstream side of bridge on State Highway 157, 0.4 mile downstream from Crooked Creek, 1.7 miles downstream from Arkansas-Louisiana State line, and 4 miles southeast of Springhill.  
 Drainage area.--605 sq mi.  
 Records analyzed.--1958-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
22. Flat Lick Bayou near Leton, La. (07-3488.00)  
 Location.--Lat 32°46'10", long 93°16'00", in NW1/4 sec. 35, T. 21 N., R. 9 W., near left bank on downstream side of bridge on State Highway 159, 0.5 mile downstream from Cypress Creek, 6 miles upstream from mouth, and 6 1/2 miles south of Leton.  
 Drainage area.--66.9 sq mi.  
 Records analyzed.--1957-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
24. Bayou Dorcheat near Minden, La. (07-3490.00)  
 Location.--Lat 32°35'55", long 93°20'00", in NW1/4 sec. 31, T. 19 N., R. 9 W., on left bank 500 ft upstream from bridge on U.S. Highway 80, three-quarters of a mile upstream from Louisiana & Arkansas Railway Co. bridge, 3 miles west of Minden, and 28 miles upstream from Bistineau Dam.  
 Drainage area.--1,097 sq mi.  
 Records analyzed.--1929-31, 1937-58.  
 Remarks.--A primary station regionally extended to the base period by stations 08-0225.00 and 07-3390.00.
27. Bodcau Bayou near Sarepta, La. (07-3495.00)  
 Location.--Lat 32°54'15", long 93°28'55", in NW1/4 sec. 15, T. 22 N., R. 11 W., on left bank on downstream side of bridge on State Highway 2, 2 miles west of Sarepta and 9.5 miles upstream from Caney Creek.  
 Drainage area.--546 sq mi.  
 Records analyzed.--1939-58.  
 Remarks.--A primary station regionally extended to the base period by stations 08-0225.00, 07-3390.00, and 07-3635.00.
29. Bodcau Bayou near Shreveport, La. (07-3496.50)  
 Location.--Lat 32°42'07", long 93°30'39", at control line of outlet structure of Bodcau Bayou Dam, 20 miles northeast of Shreveport.  
 Drainage area.--683 sq mi.  
 Records analyzed.--1951-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3490.00.
30. Cypress Bayou near Benton, La. (07-3498.00)  
 Location.--Lat 32°42'20", long 93°41'15", in NW1/4SW1/4 sec. 23, T. 20 N., R. 13 W., near right bank on downstream side of bridge on State Highway 162, 2 miles upstream from Little Caney Bayou and 3 miles east of Benton.  
 Drainage area.--133 sq mi.  
 Records analyzed.--1956-58.  
 Remarks.--A short-term station analyzed as a partial-record station.
32. Loggy Bayou near Ninock, La. (07-3500.00)  
 Location.--Lat 32°14'10", long 95°25'35", in SE1/4SE1/4 sec. 31, T. 15 N., R. 10 W., near center of span on downstream side of bridge on U.S. Highway 71, 0.25 mile downstream from Flat River, 2 miles southeast of Ninock, and 6 miles downstream from Lake Bistineau Dam.  
 Drainage area.--2,628 sq mi.  
 Records analyzed.--1949-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0225.00.
33. Red River at Coushatta, La. (07-3505.00)  
 Location.--Lat 32°00'45", long 93°21'10", in lot 23, T. 12 N., R. 10 W., near center of span on downstream side of bridge on U.S. Highway 84, at Coushatta, 11 miles downstream from Coushatta Bayou, and 242.4 miles upstream from mouth.  
 Drainage area.--63,362 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.  
 Remarks.--Records not analyzed for low-flow characteristics as no single period is representative of natural streamflow regimen due to changing effects of upstream regulation.

## GAGING STATIONS

34. Boggy Bayou near Keithville, La. (07-3510.00)  
 Location.--Lat 32°22'35", long 93°49'20", in NW1/4SE1/4 sec. 17, T. 16 N., R. 14 W., near right bank on downstream side of bridge on U.S. Highway 171, 0.4 mile downstream from Gilmer Bayou, 3 miles north of Keithville, and 5 miles upstream from mouth.  
 Drainage area.--79 sq mi.  
 Records analyzed.--1940-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3490.00.
35. Cypress Bayou near Keithville, La. (07-3515.00)  
 Location.--Lat 32°18'00", long 93°49'40", in SW1/4 sec. 8, T. 15 N., R. 14 W., near center of span on downstream side of bridge on U.S. Highway 171, immediately downstream from the Texas and Pacific Railway Co. bridge, 2 miles south of Keithville, and 6 miles upstream from mouth of Boggy Bayou.  
 Drainage area.--66 sq mi.  
 Records analyzed.--1940-57.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3490.00.
36. Cypress Bayou near Shreveport, La. (07-3515.51)  
 Location.--Lat 32°40'10", long 93°19'05", in SW1/4NW1/4 sec. 2, T. 15 N., R. 13 W., at outlet of Wallace Lake Reservoir, and 3.2 miles upstream from mouth of Wallace Bayou.  
 Drainage area.--266 sq mi.  
 Records analyzed.--1948-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3490.00.
38. Bayou Na Bonchasse near Mansfield, La. (07-3517.00)  
 Location.--Lat 32°06'05", long 93°41'45", in SE1/4 sec. 21, T. 13 N., R. 13 W., near center of span on downstream side of bridge on State Highway 175, 2.5 miles upstream from Little Bayou Na Bonchasse and 4.2 miles north of Mansfield.  
 Drainage area.--19.5 sq mi.  
 Records analyzed.--1958-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
41. Bayou Dupont near Robeline, La. (07-3519.00)  
 Location.--Lat 31°42'15", long 93°19'38", in sec. 6, T. 8 N., R. 9 W., near left bank on south side of left overflow bridge on State Highway 120, three-quarters of a mile downstream from Bayou Adois and 1.9 miles north of Robeline.  
 Drainage area.--35.1 sq mi.  
 Records analyzed.--1957-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
42. Saline Bayou near Lucky, La. (07-3520.00)  
 Location.--Lat 32°15'00", long 92°58'35", in SW1/4SW1/4 sec. 27, T. 15 N., R. 6 W., near center of span on downstream side of bridge on State Highway 4, 0.7 mile downstream from Sixmile Creek and 1.0 mile east of Lucky.  
 Drainage area.--154 sq mi.  
 Records analyzed.--1941-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3490.00.
49. Black Lake Bayou near Castor, La. (07-3525.00)  
 Location.--Lat 32°15'40", long 93°12'50", in NW1/4 sec. 29, T. 15 N., R. 8 W., near center of span on downstream side of bridge on State Highway 4, 2.8 miles downstream from Fourmile Bayou, 2.8 miles northwest of Castor, and 6.0 miles southeast of Ringgold.  
 Drainage area.--423 sq mi.  
 Records analyzed.--1941-57.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3520.00.
53. Grand Bayou near Coushatta, La. (07-3528.00)  
 Location.--Lat 32°02'55", long 93°18'10", in SW1/4SW1/4 sec. 4, T. 12 N., R. 9 W., near right bank on downstream side of bridge on State Highway 155, half a mile upstream from Carrol Creek and 3.3 miles north of Coushatta.  
 Drainage area.--93.9 sq mi.  
 Records analyzed.--1957-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
54. Saline Bayou near Clarence, La. (07-3530.00)  
 Location.--Lat 31°49'05", long 92°56'55", in SE1/4 sec. 26, T. 10 N., R. 6 W., near center of span on downstream side of bridge on U.S. Highway 84, 1.8 miles downstream from Bayou Bourbeaux, 4.0 miles downstream from Saline Lake conservation dam, 4.6 miles east of Clarence, and 6.7 miles upstream from mouth.  
 Drainage area.--1386 sq mi.  
 Records analyzed.--1950-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3520.00.
55. Nantachie Creek near Montgomery, La. (07-3535.00)  
 Location.--Lat 31°41'15", long 92°52'40", in SE1/4NE1/4 sec. 9, T. 8 N., R. 5 W., near center of span on upstream side of bridge on State Highway 34, 1.4 miles downstream from Kadesh Branch, and 1.5 miles northeast of Montgomery.  
 Drainage area.--47.0 sq mi.  
 Records analyzed.--1943-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3730.00.

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56. Youngs Bayou at Natchitoches, La. (07-3538.00)  
 Location.--Lat 31°45'00", long 93°06'40", T. 9 N., R. 7 W., near center of span on downstream side of bridge on State Highway 6 at city limits of Natchitoches, and 3 miles downstream from Gumroot Branch.  
 Drainage area.--40.1 sq mi.  
 Records analyzed.--1958-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
57. Little Sandy Creek at Kisatchie, La. (07-3540.00)  
 Location.--Lat 31°24'30", long 93°10'15", in SE1/4 sec. 15, T. 5 N., R. 8 W., on right bank at downstream side of bridge on State Highway 117, 0.5 mile south of Kisatchie and 2 miles upstream from mouth.  
 Drainage area.--21.4 sq mi.  
 Records analyzed.--1950-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.
61. Horsepen Creek near Provencal, La. (07-3545.00)  
 Location.--Lat 31°36'05", long 93°12'05", in SW1/4 sec. 9, T. 7 N., R. 8 W., at bridge on State Highway 117, 3 1/2 miles south of Provencal and 3 3/4 miles upstream from Sulphur Branch.  
 Drainage area.--5.27 sq mi.  
 Records analyzed.--1950-58.  
 Remarks.--A secondary station regionally extended to the base period by stations 07-3540.00 and 08-0275.00.
63. Hemphill Creek near Hot Wells, La. (07-3550.00)  
 Location.--Lat 31°17'50", long 92°44'10", in SE1/4NW1/4 sec. 25, T. 4 N., R. 4 W., near left bank on downstream side of bridge on State Highway 1200, a quarter of a mile upstream from Dyer Creek and 3 1/4 miles southwest of Hot Wells.  
 Drainage area.--18.0 sq mi.  
 Records analyzed.--1949-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.
67. Red River at Alexandria, La. (07-3555.00)  
 Location.--Lat 31°18'46", long 92°26'34", in SE1/4 sec. 10, T. 4 N., R. 1 W., near center of span of old bridge on U.S. Highway 165 between Alexandria and Pineville, 1.7 miles downstream from Bayou Rigolette.  
 Drainage area.--67,500 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.  
 Remarks.--Records not analyzed for low-flow characteristics as no single period is representative of natural streamflow regimen due to changing effects of upstream regulation.
68. Bayou Bartholomew near Jones, La. (07-3642.00)  
 Location.--Lat 32°59'25", long 91°39'20", in SE1/4SW1/4 sec. 9, T. 23 N., R. 8 E., on downstream side of right pier of bridge on State Highway 834, 1 mile downstream from Arkansas-Louisiana State line and 1.6 miles northwest of Jones.  
 Drainage area.--1,187 sq mi.  
 Records analyzed.--1958-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
69. Chemin-a-Haut Bayou near Beekman, La. (07-3643.00)  
 Location.--Lat 32°58'55", long 91°48'20", in SE1/4 sec. 13, T. 23 N., R. 6 E., near center of span on downstream side of bridge on parish road, 1 1/2 miles downstream from Arkansas-Louisiana State line and 6 miles northeast of Beekman.  
 Drainage area.--271 sq mi.  
 Records analyzed.--1956-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
70. Bayou Bartholomew near Beekman, La. (07-3645.00)  
 Location.--Lat 32°52'20", long 91°52'04", in NW1/4NW1/4 sec. 28, T. 22 N., R. 6 E., near center of span on downstream side of bridge on State Highway 139, 0.8 mile downstream from Bayou De Glaize, 4 miles south of Beekman, and 7 miles north of Bastrop.  
 Drainage area.--1,645 sq mi.  
 Records analyzed.--1939-58.  
 Remarks.--A pivot station used to regionally extend primary and secondary stations.
71. Bayou de Loutre near Laran, La. (07-3647.00)  
 Location.--Lat 32°57'20", long 92°30'00", in NW1/4 sec. 29, T. 23 N., R. 1 W., near center of span on downstream side of bridge on parish road, 1 1/2 miles southwest of Laran, 1 1/2 miles downstream from Lion Creek, and 3 miles upstream from bridge on State Highway 550.  
 Drainage area.--141 sq mi.  
 Records analyzed.--1956-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
75. Bayou D'Arbonne near Dubach, La. (07-3650.00)  
 Location.--Lat 32°40'50", long 92°39'10", in SW1/4NW1/4 sec. 35, T. 20 N., R. 3 W., near left bank on downstream side of bridge on U.S. Highway 167, 1 1/2 miles south of Dubach and 8 miles upstream from Middle Fork Bayou D'Arbonne.  
 Drainage area.--355 sq mi.  
 Records analyzed.--1941-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3490.00.

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78. Middle Fork Bayou D'Arbonne near Bernice, La. (07-3655.00)  
 Location.--Lat 32°45'50", long 92°39'30", in NE1/4SE1/4 sec. 34, T. 21 N., R. 3 W., near center of channel on downstream side of bridge on U.S. highway 167, 4 miles south of Bernice, and 8 miles upstream from mouth.  
 Drainage area.--178 sq mi.  
 Records analyzed.--1941-57.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3650.00.
80. Corney Bayou near Lillie, La. (07-3660.00)  
 Location.--Lat 32°53'15", long 92°39'25", in NE1/4NE1/4 sec. 22, T. 22 N., R. 3 W., near left bank on downstream side of bridge on U.S. Highway 167, 2 miles upstream from Little Corney Bayou, and 3 miles south of Lillie.  
 Drainage area.--462 sq mi.  
 Records analyzed.--1941-57.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3650.00.
81. Little Corney Bayou near Lillie, La. (07-3662.00)  
 Location.--Lat 32°55'40", long 92°37'55", in NW1/4 sec. 1, T. 22 N., R. 3 W., near center of span on downstream side of bridge on State Highway 15, 1.4 miles east of Lillie and 2 1/2 miles upstream from mouth.  
 Drainage area.--208 sq mi.  
 Records analyzed.--1956-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
84. Ouachita River at Monroe, La. (07-3670.00)  
 Location.--Lat 32°30'19", long 92°07'32", in lot 50, T. 18 N., R. 3 E., near center of span on downstream side of bridge on U.S. Highway 80 at Monroe, 0.4 mile upstream from Illinois Central Railroad bridge and 5 1/2 miles upstream from lock and dam No. 4.  
 Drainage area.--15,298 sq mi.  
 Remarks.--Records not analyzed as low-flow records are incomplete and of poor accuracy due to canalization of the stream for navigation.
86. Cheniere Creek near Bawcomville, La. (07-3675.00)  
 Location.--Lat 32°27'15", long 92°11'25", in SW1/4SW1/4 sec. 17, T. 17 N., R. 3 E., at bridge on Lenwill School Road, 1.5 miles upstream from bridge on State Highway 200 and Brown Paper Company logging railroad, and about 2 miles southwest of Bawcomville.  
 Drainage area.--134 sq mi.  
 Remarks.--Records too short for satisfactory correlations to define low-flow characteristics.
87. Boeuf River near Arkansas-Louisiana State line (07-3677.00)  
 Location.--Lat 32°58'35", long 91°26'20", in SW1/4SW1/4 sec. 15, T. 23 N., R. 10 E., on left bank 2 miles downstream from Arkansas-Louisiana State line and 8 miles west of Kilbourne, West Carroll Parish.  
 Drainage area.--785 sq mi.  
 Remarks.--Records too short for satisfactory correlations to define low-flow characteristics.
88. Boeuf River near Girard, La. (07-3680.00)  
 Location.--Lat 32°28'50", long 91°47'55", on line between sec. 1, T. 17 N., R. 6 E., and sec. 6, T. 17 N., R. 7 E., on upstream side of pier on Illinois Central Railroad bridge, 0.5 mile east of Girard.  
 Drainage area.--1,226 sq mi.  
 Records analyzed.--1939-58.  
 Remarks.--A primary station regionally extended to the base period by stations 07-3645.00, 02B-4860.00 and 08-0225.00.
89. Big Colewa Bayou near Oak Grove, La. (07-3685.00)  
 Location.--Lat 32°47'55", long 91°30'05", in NE1/4 sec. 24, T. 21 N., R. 9 E., on downstream side near center of bridge on State Highway 2, 0.1 mile downstream from Little Colewa Bayou and 8 miles southwest of Oak Grove.  
 Drainage area.--42 sq mi.  
 Records analyzed.--1950-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3680.00.
94. Bayou LaFourche near Crew Lake, La. (07-3690.00)  
 Location.--Lat 32°29'55", long 91°55'05", in SW1/4 sec. 36, T. 18 N., R. 5 E., near center of span on downstream side of bridge on U.S. Highway 80, 1.1 miles upstream from Illinois Central Railroad bridge and 2.5 miles west of town of Crew Lake.  
 Drainage area.--361 sq mi.  
 Records analyzed.--1940-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3680.00.
98. Tensas River at Tendal, La. (07-3695.00)  
 Location.--Lat 32°25'55", long 91°22'00", in NW1/4 sec. 29, T. 17 N., R. 11 E., near left bank on upstream side of bridge on U.S. Highway 80 at Tendal, 200 ft upstream from Illinois Central Railroad bridge and 3 miles east of Waverly.  
 Drainage area.--309 sq mi.  
 Records analyzed.--1937-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3680.00.

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100. Bayou Macon near Kilbourne, La. (07-3697.00)

Location.--Lat 32°59'35", long 91°15'45", in SW1/4SE1/4 sec. 8, T. 23 N., R. 12 E., near center of channel on downstream side of bridge on State Highway 585, three-quarters of a mile south of Arkansas-Louisiana State line and 3 miles east of Kilbourne.

Drainage area.--504 sq mi.

Remarks.--Records too short for satisfactory correlations to define low-flow characteristics.

101. Bayou Macon near Delhi, La. (07-3700.00)

Location.--Lat 32°27'20", long 91°28'30", in SE1/4 sec. 18, T. 17 N., R. 10 E., at bridge on U.S. Highway 80, 150 ft upstream from Illinois Central Railroad bridge, and 1 mile east of Delhi.

Drainage area.--782 sq mi.

Records analyzed.--1936-58.

Remarks.--A secondary station regionally extended to the base period by station 07-3680.00.

104. Castor Creek near Grayson, La. (07-3705.00)

Location.--Lat 32°04'55", long 92°12'25", in SW1/4NW1/4 sec. 30, T. 13 N., R. 3 E., near center of span on downstream side of bridge on State Highway 126, 6 miles upstream from Bayou Beaucoup and 6 1/2 miles northwest of Grayson.

Drainage area.--271 sq mi.

Records analyzed.--1941-58.

Remarks.--A secondary station regionally extended to the base period by station 07-3520.00.

112. Garrett Creek at Jonesboro, La. (07-3710.00)

Location.--Lat 32°13'55", long 92°43'35", in NE1/4NE1/4, sec. 1, T. 14 N., R. 4 W., on left bank just downstream from bridge on State Highway 4, 0.3 mile southwest of Jonesboro town limits and 0.9 mile upstream from Little Dugdemona River.

Drainage area.--2.14 sq mi.

Records analyzed.--1953-58.

Remarks.--A secondary station regionally extended to the base period by station 07-3520.00.

114. Dugdemona River near Jonesboro, La. (07-3715.00)

Location.--Lat 32°12'25", long 92°48'05", in SW1/4 sec. 8, T. 14 N., R. 4 W., on left bank just downstream from bridge on State Highway 4, 200 ft downstream from Brush Creek, 1.5 miles downstream from Mc Donald Creek, and 6 miles southwest of Jonesboro.

Drainage area.--347 sq mi.

Records analyzed.--1939-58.

Remarks.--A secondary station regionally extended to the base period by station 07-3720.00.

116. Dugdemona River near Winnfield, La. (07-3720.00)

Location.--Lat 31°58'30", long 92°39'10", on line between secs. 34 and 35, T. 12 N., R. 3 W., on right bank just downstream from bridge on U.S. Highway 167, 300 ft upstream from Chicago, Rock Island & Pacific Railroad Co. bridge, 2.4 miles downstream from Kyiaies Creek, and 3.5 miles north of Winnfield.

Drainage area.--654 sq mi.

Records analyzed.--1940-58.

Remarks.--A primary station regionally extended to the base period by stations 07-3785.00, 07-3490.00, 07-3680.00, and 08-0225.00.

118. Little River near Rochelle, La. (07-3722.00)

Location.--Lat 31°45'15", long 92°20'40", in SW1/4SW1/4 sec. 14, T. 9 N., R. 1 E., near right bank on downstream side of pier of bridge on State Highway 500, 700 ft upstream from Louisiana Midland Railway Co. bridge, 1.1 miles northeast of Zenoria, and 3 miles southeast of Rochelle.

Drainage area.--1,880 sq mi.

Records analyzed.--1958-61.

Remarks.--A short-term station analyzed as a partial-record station.

120. Bayou Funny Louis near Trout, La. (07-3725.00)

Location.--Lat 31°43'00", long 92°13'20", in SW1/4NW1/4 sec. 36, T. 9 N., R. 2 E., near left bank on downstream side of bridge on U.S. Highway 84, 0.4 mile downstream from Jumping Gully Creek, 3 miles northwest of Trout, and 12 miles upstream from mouth.

Drainage area.--92 sq mi.

Records analyzed.--1940-58.

Remarks.--A secondary station regionally extended to the base period by station 07-3720.00.

122. Big Creek at Pollock, La. (07-3730.00)

Location.--Lat 31°32'10", long 92°24'30", in SW1/4SE1/4 sec. 31, T. 7 N., R. 1 E., near right bank on downstream side of bridge on U.S. Highway 165, 0.5 mile upstream from Sugar Branch, 0.7 mile upstream from Missouri Pacific Railroad Co. bridge and water-supply diversion dam, 0.8 mile north of Pollock, and 1.3 miles downstream from Dyson Creek.

Drainage area.--51 sq mi.

Records analyzed.--1943-58.

Remarks.--A secondary station regionally extended to the base period by station 07-3725.00.



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129. West Fork Thompson Creek near Wakefield, La. (07-3735.00)  
 Location.--Lat 30°55'20", long 91°17'35", in lot 43, T. 1 S., R. 2 W., St. Helena meridian, near right bank on downstream side of bridge on State Highway 421, 3 1/2 miles northeast of Wakefield, and 4 1/2 miles upstream from Middle Fork Thompson Creek.  
 Drainage area.--35.3 sq mi.  
 Records analyzed.--1950-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3785.00.
133. Tchefuncta River near Folsom, La. (07-3750.00)  
 Location.--Lat 30°36'55", long 90°14'55", on line between SE1/4NE1/4 and SW1/4NE1/4 sec. 13, T. 5 S., R. 9 E., St. Helena meridian, near center of span on downstream side of bridge on State Highway 40, 1.2 miles upstream from Bull Branch and 3.6 miles southwest of Folsom.  
 Drainage area.--95.5 sq mi.  
 Records analyzed.--1944-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3755.00.
140. Tangipahoa River at Robert, La. (07-3755.00)  
 Location.--Lat 30°30'23", long 90°21'42", in lot 39, T. 6 S., R. 8 E., St. Helena meridian, on right bank just downstream from bridge on U.S. Highway 190, 1 mile west of Robert, 2 miles downstream from Chappelpeela Creek, and 6 miles east of Hammond.  
 Drainage area.--646 sq mi.  
 Records analyzed.--1939-58.  
 Remarks.--A primary station regionally extended to the base period by stations 07-3785.00 and 02B-4920.00.
142. Tickfaw River at Liverpool, La. (07-3758.00)  
 Location.--Lat 30°55'47", long 90°40'41", on line between secs. 46 and 47, T. 1 S., R. 5 E., St. Helena meridian, near left bank on downstream side of bridge on State Highway 38, half a mile east of intersection of State Highways 38 and 43, half a mile upstream from Cotton Patch Branch and 1 mile north of Liverpool.  
 Drainage area.--89.7 sq mi.  
 Records analyzed.--1956-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
146. Tickfaw River at Holden, La. (07-3760.00)  
 Location.--Lat 30°30'13", long 90°40'38", in sec. 26, T. 6 S., R. 5 E., St. Helena meridian, near left bank on downstream side of bridge on U.S. Highway 190, half a mile west of Holden, and 5.1 miles upstream from Big Branch.  
 Drainage area.--247 sq mi.  
 Records analyzed.--1941-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3785.00.
148. Natalbany River at Baptist, La. (07-3765.00)  
 Location.--Lat 30°30'15", long 90°32'45", in NE1/4NW1/4 sec. 30, T. 6 S., R. 7 E., St. Helena meridian, near right bank on downstream side of bridge on U.S. Highway 190, 0.7 mile downstream from Still Branch and 0.7 mile west of Baptist.  
 Drainage area.--79.5 sq mi.  
 Records analyzed.--1944-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3755.00.
150. Amite River near Darlington, La. (07-3770.00)  
 Location.--Lat 30°53'20", long 90°50'40", in lot 72, T. 2 S., R. 4 E., St. Helena meridian, on left bank just downstream from bridge on State Highway 10, 1.5 miles upstream from Collins Creek and 3.9 miles west of Darlington.  
 Drainage area.--580 sq mi.  
 Records analyzed.--1951-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3785.00.
156. Comite River near Olive Branch, La. (07-3775.00)  
 Location.--Lat 30°45'35", long 91°02'50", between lots 41 and 42, T. 3 S., R. 2 E., St. Helena meridian, near center of span on downstream side of bridge on State Highway 67, 500 ft downstream from Knighton Bayou and 1.8 miles northeast of Olive Branch.  
 Drainage area.--149 sq mi.  
 Records analyzed.--1943-58  
 Remarks.--A secondary station regionally extended to the base period by station 07-3785.00.
160. Comite River near Comite, La. (07-3780.00)  
 Location.--Lat 30°30'45", long 91°04'25", in NW1/4 sec. 24, T. 6 S., R. 1 E., St. Helena meridian, near left bank on downstream side of bridge on State Highway 946, half a mile downstream from Blackwater Bayou and 2.6 miles west of Comite.  
 Drainage area.--332 sq mi.  
 Records analyzed.--1945-58.  
 Remarks.--A secondary station regionally extended to the base period by station 07-3785.00.

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161. Amite River near Denham Springs, La. (07-3785.00)

Location.--Lat 30°27'50", long 90°59'25", in lot 2, T. 7 S., R. 2 E., St. Helena meridian, on left bank just downstream from bridge on U.S. Highway 190, 1,000 ft downstream from Comite River, 3 miles southwest of town of Denham Springs, and 15 miles east of Baton Rouge.

Drainage area.--1,330 sq mi.

Records analyzed.--1939-58.

Remarks.--A primary station regionally extended to the base period by stations 08-0135.00, 02B-4920.00, and 02B-4860.00.

163. Wards Creek at Government Street at Baton Rouge, La. (07-3790.00)

Location.--Lat 30°26'40", long 91°08'35", in lot 81, T. 7 S., R. 1 E., St. Helena meridian, on right bank 6 ft upstream from bridge on U.S. Highway 61 at Government Street in Baton Rouge and 6.75 miles upstream from Dawson Creek.

Drainage area.--4.31 sq mi.

Remarks.--Records not analyzed for low-flow characteristics as low flows are comprised largely of commercial wastes and septic tank effluent.

164. Bayou Duplantier at City Park Lake at Baton Rouge, La. (07-3795.00)

Location.--Lat 30°25'15", long 91°10'00", T. 7 S., R. 1 W., at triple box culvert at lower end of City Park Lake on Bayou Duplantier, and 3.75 miles above mouth of Dawson Creek.

Drainage area.--0.81 sq mi. (See remarks)

Remarks.--Records not analyzed for low-flow characteristics as flows do not reflect natural flow regimen due to large evaporation losses from lake surface and artificial inflow from outside the drainage area.

165. Wards Creek at Siegen Lane near Baton Rouge, La. (07-3800.00)

Location.--Lat 30°22'30", long 91°04'10", in lot 54, T. 8 S., R. 1 E., St. Helena meridian, at bridge on Siegen Lane, 0.5 mile downstream from Dawson Creek, and 8 miles southeast of Baton Rouge.

Drainage area.--40.0 sq mi.

Records analyzed.--1948-53.

Remarks.--A secondary station regionally extended to the base period by station 07-3785.00.

169. Bayou Lafourche at Donaldsonville, La. (07-3804.00)

Location.--Lat 30°06'00", long 90°58'40", T. 11 S., R. 2 E., on left bank 40 ft upstream from culvert under State Highway 18 in Donaldsonville and 1,500 ft downstream from Donaldsonville Pumping Plant.

Drainage area.--Indeterminate.

Remarks.--Records not analyzed for low-flow characteristics as this is a distributary stream and does not reflect the hydrologic character of a definite area.

170. Atchafalaya River at Krotz Springs, La. (07-3815.00)

Location.--Lat 30°32'48", long 91°45'04", in sec. 7, T. 6 S., R. 7 E., Louisiana meridian, in first pier from west bank on bridge on U.S. Highway 190, half a mile north of town of Krotz Springs, 0.6 mile upstream from New Orleans, Texas & Mexico Railway Co. bridge, 10 miles upstream from Bayou Courtableau, and 42 miles downstream from confluence of Red River and Old River (head of Atchafalaya River).

Drainage area.--Indeterminate.

Remarks.--Records not analyzed for low-flow characteristics as this is a distributary stream and does not reflect the hydrologic character of a definite area.

171. Spring Creek near Glenmora, La. (07-3818.00)

Location.--Lat 31°00'10", long 92°34'10", in SE1/4NE1/4 sec. 4, T. 1 S., R. 2 W., Louisiana meridian, near right bank on downstream side of bridge on U.S. Highway 165, a quarter of a mile upstream from Missouri Pacific Railroad Co. bridge, 2 miles north of Glenmora, and 7.9 miles above confluence with Bayou Cocodrie.

Drainage area.--68.3 sq mi.

Records analyzed.--1956-61.

Remarks.--A short-term station analyzed as a partial-record station.

172. Bayou Cocodrie near Clearwater, La. (07-3820.00)

Location.--Lat 31°00'00", long 92°22'46", in NW1/4SW1/4 sec. 4, T. 1 S., R. 1 E., Louisiana meridian, on left bank just downstream from bridge on U.S. Highway 167, 1,000 ft downstream from Bayou Cocodrie Dam, seven-eighths of a mile downstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 1 1/2 miles east of Clearwater, 4 miles south of Meeker, and 5 miles downstream from Hurricane Creek.

Drainage area.--240 sq mi.

Records analyzed.--1923-24, 1938-58.

Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.

174. Bayou Courtableau at Washington, La. (07-3825.00)

Location.--Lat 30°37'05", long 92°03'20", in lot 81, T. 5 S., R. 4 E., Louisiana meridian, near center of span on downstream side of bridge on State Highway 10 at Washington, a quarter of a mile upstream from Texas and New Orleans Railroad Co. bridge, 1 1/4 miles upstream from Bayou Carron, 3 1/2 miles downstream from confluence of Bayou Cocodrie and Bayou Boeuf, and 6 miles north of Opelousas.

Drainage area.--715 (arbitrarily determined due to interchange of flow).

Remarks.--Records not analyzed for low-flow characteristics due to diversions and other manipulations which upset natural flow regimen.

## GAGING STATIONS

176. Chatlin Lake Canal near Lecompte, La. (07-3830.00)  
 Location.--Lat 31°07'10", long 92°20'40", in NW1/4 sec. 26, T. 2 N., R. 1 E., near center of span on downstream side of bridge on State Highway 457, 1.2 miles downstream from Indian Bayou, and 3.7 miles northeast of Lecompte.  
 Drainage area.--75.9 sq mi. (See remarks).  
 Remarks.--Records not analyzed for low-flow characteristics because of diversions.
177. Bayou des Glaises diversion channel at Moreauville, La. (07-3835.00)  
 Location.--Lat 31°01'59", long 91°58'57", in NE1/4 sec. 29, T. 1 N., R. 5 E., near right bank on downstream side of bridge on State Highway 1 at Moreauville, 150 ft downstream from point of diversion from Bayou des Glaises.  
 Drainage area.--270 sq mi. (See remarks).  
 Remarks.--Records not analyzed for low-flow characteristics because of poor accuracy of low-water records and undetermined amounts of occasional diversions.
178. W. Protection borrow pit channel near Plaucheville, La. (07-3840.00)  
 Location.--Lat 30°57'10", long 91°54'55", in SW1/4SE1/4 sec. 24, T. 1 S., R. 5 E., Louisiana meridian, near center of span on downstream side of bridge on State Highway 1181, 50 feet downstream from Bayou Choupique, and 4.1 miles east of Plaucheville.  
 Drainage area.--321 sq mi. (See remarks).  
 Remarks.--Records not analyzed for low-flow characteristics as they do not reflect hydrologic character of a definite area due to diversions.
179. Big D'Arbonne Bayou at Culvert near Krotz Springs, La. (07-3845.00)  
 Location.--Lat 30°33'00", long 91°51'50", in NW1/4NE1/4 sec. 9, T. 6 S., R. 6 E., Louisiana meridian, on west end of wingwall of culvert, 250 ft east of West Protection borrow pit channel, 0.2 mile north of bridge on U.S. Highway 190, and 6.3 miles west of Krotz Springs.  
 Drainage area.--Indeterminate.  
 Remarks.--Records not analyzed for low-flow characteristics as they do not reflect the hydrologic character of a definite area.
180. Bayou Courtableau at Weirs near Krotz Springs, La. (07-3850.00)  
 Location.--Lat 30°32'20", long 91°52'05", in NW1/4NE1/4 sec. 39, T. 6 S., R. 6 E., Louisiana meridian, on right bank 160 ft upstream from west weir, 0.7 mile downstream from bridge on U.S. highway 190, 0.8 mile downstream from Big D'Arbonne Bayou, and 7 miles west of Krotz Springs.  
 Drainage area.--Indeterminate.  
 Remarks.--Records not analyzed for low-flow characteristics as they do not reflect the hydrologic character of a definite area.
181. Bayou Teche at Arnaudville, La. (07-3855.00)  
 Location.--Lat 30°23'50", long 91°55'50", in lot 63, T. 7 S., R. 5 E., Louisiana meridian, near center of span on downstream side of bridge on State Highway 31 at Arnaudville, 270 ft upstream from Bayou Fusilier.  
 Drainage area.--1,531 sq mi. (See remarks).  
 Remarks.--Records not analyzed for low-flow characteristics as they do not reflect the hydrologic character of a definite area due to diversions and complex interchange of flows.
182. Bayou Carencro near Sunset, La. (07-3860.00)  
 Location.--Lat 30°22'35", long 92°02'35", in lot 71, T. 8 S., R. 4 E., Louisiana meridian, near center of span on downstream side of bridge on U.S. Highway 167, 1 1/2 miles downstream from Texas and New Orleans Railroad Co. bridge, 2 3/4 miles southeast of Sunset, and 4 3/4 miles upstream from mouth.  
 Drainage area.--37.1 sq mi.  
 Records analyzed.--1944-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0100.00.
183. Bayou Fusilier at Arnaudville, La. (07-3862.00)  
 Location.--Lat 30°23'50", long 91°55'50", in lot 63, T. 7 S., R. 5 E., Louisiana meridian near center of span on downstream side of bridge on State Highway 93 at Arnaudville, on Bayou Teche, 270 feet upstream from Bayou Fusilier.  
 Drainage area.--1,531 sq mi. (See remarks).  
 Remarks.--Records not analyzed for low-flow characteristics as they do not reflect hydrologic character of a definite area due to diversions and complex interchange of flows.
184. Bayou Bourbeau at Shuteston, La. (07-3865.00)  
 Location.--Lat 30°25'40", long 92°05'30", in lot 174, T. 7 S., R. 4 E., Louisiana meridian, near center of span on downstream side of bridge on State Highway 178, three-quarters of a mile east of Shuteston, 1 3/4 miles northwest of Sunset, and 2 miles upstream from Bayou Sylvain and Texas and New Orleans Railroad Co. bridge.  
 Drainage area.--19.0 sq mi.  
 Records analyzed.--1943-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0100.00.
186. Bayou des Cannes near Eunice, La. (08-0100.00)  
 Location.--Lat 30°29'00", long 92°29'25", in SW1/4SE1/4 sec. 32, T. 6 S., R. 1 W., Louisiana meridian, on left bank at downstream side of bridge on U.S. Highway 190, 3 miles downstream from New Orleans, Texas and Mexico Railway Co. bridge and 4 miles west of Eunice.  
 Drainage area.--131 sq mi.  
 Records analyzed.--1939-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.

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189. Long Point Gully near Crowley, La. (08-0103.00)  
 Location.--Lat 30°18'37", long 92°23'49", on line between secs. 31 and 32, T. 8 S., R. 1 E., Louisiana meridian, on upstream side of center of bridge on State Highway 13, 2.75 miles upstream from mouth and 7 miles north of Crowley.  
 Drainage area.--25.7 sq mi.  
 Records analyzed.--1950-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0100.00.
190. Bayou Plaquemine Brule near Crowley, La. (08-0110.00)  
 Location.--Lat 30°14'05", long 92°23'44", in NW1/4SW1/4 sec. 29, T. 9 S., R. 1 E., Louisiana meridian, at bridge on State Highway 100, 1.5 miles upstream from Missouri Pacific Railroad bridge, 1 mile downstream from bridge on State Highway 13, and 1.25 miles northwest of Crowley.  
 Drainage area.--252 sq mi.  
 Records analyzed.--1943-47.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0100.00.
191. Boggy Bayou near Pine Prairie, La. (08-0115.00)  
 Location.--Lat 30°47'10", long 92°28'30", in NW1/4NW1/4 sec. 21, T. 3 S., R. 1 W., Louisiana meridian, at bridge on State Highway 106, 2.75 miles upstream from Beaver Creek, and 3 miles west of Pine Prairie.  
 Drainage area.--51.3 sq mi.  
 Records analyzed.--1948-51.  
 Remarks.--A short-term station analyzed as a partial-record station. Formerly published as Cypress Creek.
196. Bayou Nezpique near Basile, La. (08-0120.00)  
 Location.--Lat 30°28'50", long 92°37'55", in NE1/4NW1/4 sec. 1, T. 7 S., R. 3 W., near left bank on downstream side of bridge on U.S. Highway 190, a quarter of a mile downstream from New Orleans, Texas and Mexico Railway Co. bridge and 2 miles west of Basile.  
 Drainage area.--527 sq mi.  
 Records analyzed.--1939-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.
200. Calcasieu River near Glenmora, La. (08-0130.00)  
 Location.--Lat 30°59'45", long 92°40'25", in SE1/4SE1/4 sec. 4, T. 1 S., R. 3 W., Louisiana meridian, on right bank on downstream side of bridge on State Highway 113, 1.0 mile upstream from Prairie Branch and 4.6 miles northwest of Glenmora.  
 Drainage area.--499 sq mi.  
 Records analyzed.--1944-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.
202. Calcasieu River near Oberlin, La. (08-0135.00)  
 Location.--Lat 30°38'25", long 92°48'50", in NW1/4NE1/4 sec. 7, T. 5 S., R. 4 W., near right bank on downstream side of bridge on State Highway 26, 3 miles northwest of Oberlin and 15 miles upstream from Whiskey Chitto Creek.  
 Drainage area.--753 sq mi.  
 Records analyzed.--1923-58.  
 Remarks.--A pivot station used to regionally extend primary and secondary stations.
207. Sixmile Creek near Sugartown, La. (08-0140.00)  
 Location.--Lat 30°48'52", long 92°55'34", in NE1/4 sec. 12, T. 3 S., R. 6 W., on downstream side of bridge on State Highway 112, 2.0 miles downstream from Caney Branch, 5.5 miles east of Sugartown, and 6.6 miles upstream from Whiskey Chitto Creek.  
 Drainage area.--171 sq mi.  
 Records analyzed.--1956-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
208. Tennile Creek near Elizabeth, La. (08-0142.00)  
 Location.--Lat 30°50'11", long 92°52'26", in NW1/4SW1/4 sec. 34, T. 2 S., R. 5 W., near left bank on downstream side of bridge on State Highway 112, 0.3 mile downstream from Carter Branch and 5.3 miles southwest of Elizabeth.  
 Drainage area.--94.2 sq mi.  
 Records analyzed.--1950-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.
209. Whiskey Chitto Creek near Oberlin, La. (08-0145.00)  
 Location.--Lat 30°41'55", long 92°53'35", in NE1/4NE1/4 sec. 20, T. 4 S., R. 5 W., near left bank on downstream side of bridge on State Highway 26, 1 mile downstream from Tennile Creek, 8 miles upstream from Bundick Creek, and 10 miles northwest of Oberlin.  
 Drainage area.--510 sq mi.  
 Records analyzed.--1940-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.

## GAGING STATIONS

211. Bundick Creek near De Ridder, La. (08-0148.00)

Location.--Lat 30°49'09", long 93°13'51", in SW1/4NW1/4 sec. 7, T. 3 S., R. 8 W., near left bank on downstream side of bridge on State Highway 26, 1.1 miles downstream from Flat Creek and 3.8 miles southwest of De Ridder.

Drainage area.--120 sq mi.

Records analyzed.--1956-61.

Remarks.--A short-term station analyzed as a partial-record station.

212. Bundick Creek near Dry Creek, La. (08-0150.00)

Location.--Lat 30°40'55", long 93°02'15", on line between NE1/4 and NW1/4 sec. 25, T. 4 S., R. 7 W., near right bank on downstream side of bridge on State Highway 113, 1 mile northeast of town of Dry Creek and 8 miles upstream from mouth.

Drainage area.--238 sq mi.

Records analyzed.--1940-58.

Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.

214. Calcasieu River near Kinder, La. (08-0155.00)

Location.--Lat 30°30'10", long 92°54'55", in NW1/4SE1/4 sec. 30, T. 6 S., R. 5 W., on left bank on downstream side of bridge on U.S. Highway 190, 0.5 mile downstream from Whiskey Chitto Creek, and 4 miles west of Kinder.

Drainage area.--1,700 sq mi.

Records analyzed.--1923-57.

Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.

220. Beckwith Creek near De Quincy, La. (08-0164.00)

Location (revised).--Lat 30°28'15", long 93°21'35", in SE1/4NW1/4 sec. 11, T. 7 S., R. 10 W., near right bank at downstream side of bridge on State Highway 12, 300 ft upstream from New Orleans, Texas and Mexico Railway bridge, 2.3 miles downstream from Hams Creek, and 4.4 miles northeast of De Quincy. Prior to Jan. 3, 1961, at site 1,000 ft upstream.

Drainage area.--148 sq mi.

Records analyzed.--1946-58.

Remarks.--A secondary station regionally extended to the base period by station 08-0150.00.

222. Hickory Branch at Kernan, La. (08-0166.00)

Location.--Lat 30°30'05", long 93°16'45", in NW1/4 sec. 34, T. 6 S., R. 9 W., on downstream side of bridge on State Highway 12, 120 ft upstream from New Orleans, Texas, and Mexico Railway bridge, 0.7 mile southwest of Kernan, 3 miles upstream from Cowpen Creek and 10 miles northeast of De Quincy.

Drainage area.--82.2 sq mi.

Records analyzed.--1946-57.

Remarks.--A short-term station analyzed as a partial-record station.

224. Bearhead Creek near Starks, La. (08-0168.00)

Location.--Lat 30°13'59", long 93°37'44", in sec. 30, T. 8 S., R. 12 W., near right bank on downstream side of bridge on State Highway 12, 2.4 miles northeast of Starks, 3.5 miles downstream from Green Island Marsh Creek, and 15.3 miles above confluence with Buxton Creek.

Drainage area.--177 sq mi.

Records analyzed.--1956-61.

Remarks.--A short-term station analyzed as a partial-record station.

227. Sabine River at Logansport, La. (08-0225.00)

Location.--Lat 31°58'44", long 94°00'58", at Logansport, De Soto Parish, on left bank 4,600 ft upstream from bridge on U.S. Highway 84, 4,800 ft upstream from Texas and New Orleans Railroad Co. bridge, and 4 miles upstream from Bayou Castor.

Drainage area.--4,839 sq mi.

Records analyzed.--1903-58.

Remarks.--A pivot station used in regionally extending primary and secondary stations to the base period.

230. Bayou Castor near Logansport, La. (08-0230.00)

Location.--Lat 31°58'25", long 93°58'10", in NW1/4 sec. 1, T. 11 N., R. 16 W., near center of span on downstream side of bridge on U.S. Highway 84, 1.7 miles east of Logansport and 2.5 miles upstream from Bayou Grand Cane.

Drainage area.--96.5 sq mi.

Remarks.--A short-term station analyzed as a partial-record station.

235. Bayou San Patricio near Noble, La. (08-0235.00)

Location.--Lat 31°43'15", long 93°42'25", in lot 38, T. 9 N., R. 13 W., near right bank on downstream side of bridge on U.S. Highway 171, 1.6 miles downstream from the Kansas City Southern Railway Co. bridge and 2.5 miles northwest of Noble.

Drainage area.--154 sq mi.

Records analyzed.--1952-58.

Remarks.--A secondary station regionally extended to the base period by station 08-0225.00.

237. Bayou San Miguel near Zwolle, La. (08-0240.00)

Location.--Lat 31°39'10", long 93°39'10", in NE1/4NW1/4 sec. 25, T. 8 N., R. 13 W., near right bank on downstream side of bridge on U.S. Highway 171, 1 3/4 miles northwest of Zwolle and 3 1/2 miles upstream from Bayou Scie.

Drainage area.--111 sq mi.

Records analyzed.--1949-58.

Remarks.--A secondary station regionally extended to the base period by station 08-0235.00.

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239. Blackwell Creek at Many, La. (08-0240.60)  
 Location.--Lat 31°34'50", long 93°27'45", in lot 39, T. 7 N., R. 11 W., near center of span on downstream side of bridge on State Highway 6, 0.2 mile northeast of Many city limits and 0.9 mile above mouth.  
 Drainage area.--3.16 sq mi.  
 Remarks.--Records too short for satisfactory correlations to define low-flow characteristics.
241. Bayou La Nana near Zwolle, La. (08-0242.00)  
 Location.--Lat 31°30'56", long 93°39'04", in NW1/4SE1/4 sec. 12, T. 6 N., R. 13 W., at bridge on State Highway 475, three-quarters of a mile downstream from Spring Branch, 4 miles upstream from mouth, and 8 miles south of Zwolle.  
 Drainage area.--130 sq mi.  
 Records analyzed.--1956-61.  
 Remarks.--A short-term station analyzed as a partial-record station.
242. Sabine River near Milam, Tex. (08-0244.00)  
 Location.--Lat 31°28'01", long 93°44'41" (revised), on right bank 104 ft upstream from bridge on State Highway 21, 2.8 miles downstream from Patroon Bayou, 6.5 miles northeast of Milam, Sabine County, and 7.2 miles upstream from Palo Gaucho Bayou.  
 Drainage area.--6,508 sq mi.  
 Records analyzed.--1940-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0225.00. Published as "at Sabinetown", 1923-25.
243. Sabine River at Sabinetown, Tex. (08-0250.00)  
 Location.--Lat 31°28'00", long 93°45'00", 104 ft upstream from bridge on State Highway 21, 2.8 miles downstream from Patroon Bayou, 6.5 miles northeast of Milam, Sabine County, 7.2 miles upstream from Palo Gaucho Bayou, and at mile 195.  
 Drainage area.--6,713 sq mi.  
 Remarks.--Comparable to and analyzed with the record for Sabine River near Milam, Tex.
245. Bayou Toro near Toro, La. (08-0255.00)  
 Location.--Lat 31°18'25", long 93°30'56", in SW1/4 sec. 20, T. 4 N., R. 11 W., at bridge on State Highway 473, 0.2 mile upstream from Hanby Creek, 2.5 miles northeast of Toro, and 7.8 miles west of Hornbeck.  
 Drainage area.--144 sq mi.  
 Remarks.--A short-term station analyzed as a partial-record station.
249. Sabine River below Toledo Bend near Burkeville, Tex. (08-0260.00)  
 Location.--Lat 31°03'50", long 93°31'10", near left edge of low-water channel at downstream side of bridge on State Highway 63, about 200 ft downstream from Pearl Creek, 10 miles northeast of Burkeville, Newton County, 16 miles downstream from Bayou Toro, and 23 miles downstream from proposed Toledo Bend Dam.  
 Drainage area.--7,482 sq mi.  
 Remarks.--Records too short for satisfactory correlations to define low-flow characteristics.
252. Bayou Anacoco near Leesville, La. (08-0275.00)  
 Location.--Lat 31°09'35", long 93°21'05", in NW1/4NW1/4 sec. 13, T. 2 N., R. 10 W., near left bank on downstream side of bridge on State Highway 8, 2 3/4 miles upstream from Prairie Creek and 5 1/2 miles west of Leesville.  
 Drainage area.--118 sq mi.  
 Records analyzed.--1949-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.
253. Bayou Anacoco near Rosepine, La. (08-0280.00)  
 Location.--Lat 30°57'10", long 93°21'10", on line between secs. 25 and 26, T. 1 S., R. 10 W., near center of span on downstream side of bridge on parish road from Rosepine to Evans just downstream from Pocosin Creek, 4.8 miles northwest of Rosepine.  
 Drainage area.--355 sq mi.  
 Records analyzed.--1952-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0135.00.
256. Sabine River near Bon Wier, Tex. (08-0285.00)  
 Location.--Lat 30°45'00", long 93°36'30", near left bank at downstream side of bridge on U.S. Highway 190, 0.7 mile upstream from Quicksand Creek, 0.8 mile upstream from Gulf, Colorado and Santa Fe Railway Co. bridge, 2.0 miles east of Bon Wier, Newton County, and 2.4 miles upstream from Caney Creek.  
 Drainage area.--8,229 sq mi.  
 Records analyzed.--1924-58.  
 Remarks.--A secondary station regionally extended to the base period by station 08-0225.00.
257. Hoosier Creek near Merryville, La. (08-0287.00)  
 Location.--Lat 30°43'32", long 93°33'36", in SE1/4 sec. 11, T. 4 S., R. 12 W., at bridge on State Highway 389, 2 miles upstream from Fullem Branch and 2 miles south of Merryville.  
 Drainage area.--13.1 sq mi.  
 Records analyzed.--1956-61.  
 Remarks.--A short-term station analyzed as a partial-record station.

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260. Sabine River near Ruliff, Tex. (08-0305.00)

Location.--Lat  $30^{\circ}18'10''$ , long  $93^{\circ}44'40''$ , near right bank at downstream side of bridge on State Highway 235, 2.4 miles north of Ruliff, Newton County, 4.2 miles upstream from The Kansas City Southern Railway Co. bridge, and 4.5 miles downstream from Cypress Creek.

Drainage area.--9,329 sq mi.

Records analyzed.--1925-58.

Remarks.--A primary station used in regionally extending secondary stations to the base period.

STATION DESCRIPTIONS

PARTIAL-RECORD STATIONS

1. Pushapatapa Creek near Angie, La. (02B-4893.00)  
 Location.--Lat 30°58'50", long 89°56'40", at bridge on State Highway 438, and 8.5 miles west of Angie.  
 Drainage area.--72.3 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with station 02B-4905.00 and 02B-4920.00.  
 Number of discharge measurements.--8.
2. Pushapatapa Creek at Varnado, La. (02B-4894.00)  
 Location.--Lat 30°52'50", long 89°49'50", at bridge on State Highway 21, and 0.9 mile south of Varnado.  
 Drainage area.--158 sq mi.  
 Period of measurements.--1956-62.  
 Index station.--Correlated with station 02B-4920.00.  
 Number of discharge measurements.--6.
5. Bogue Lusa Creek at Bogalusa, La. (02B-4901.00)  
 Location.--Lat 30°46'10", long 89°53'30", at bridge on State Highway 439, and at Bogalusa.  
 Drainage area.--68.7 sq mi.  
 Period of measurements.--1956-62.  
 Index station.--Correlated with station 02B-4900.00 and 02B-4920.00.  
 Number of discharge measurements.--7.
6. Silver Creek near Clifton, La. (02B-4912.00)  
 Location.--Lat 30°55'30", long 90°14'30", at bridge on State Highway 38, and 3.6 miles west of Clifton.  
 Drainage area.--50.1 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with station 02B-4920.00 and 07-3750.00.  
 Number of discharge measurements.--9.
8. Lawrence Creek near Franklinton, La. (02B-4917.00)  
 Location.--Lat 30°51'40", long 90°06'55", at bridge on State Highway 10, and about 2 miles east of Franklinton.  
 Drainage area.--44.2 sq mi.  
 Period of measurements.--1956-62.  
 Index station.--Correlated with station 02B-4900.00 and 02B-4920.00.  
 Number of discharge measurements.--8.
10. Talisheek Creek at Talisheek, La. (02B-4922.00)  
 Location.--Lat 30°32'15", long 89°52'35", at bridge on State Highway 41, and 0.4 mile northeast of Talisheek.  
 Drainage area.--17.3 sq mi.  
 Period of measurements.--1955-62  
 Index station.--Correlated with station 02B-4920.00 and 07-3750.00.  
 Number of discharge measurements.--10.
13. Black Bayou near Rodessa, La. (07-3464.00)  
 Location.--Lat 32°58'30", long 94°01'40", at bridge on State Highway 168, and 2 miles west of Rodessa.  
 Drainage area.--113 sq mi.  
 Period of measurements.--1956-61, Discontinued 12/60.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
<u>Date</u>	<u>(cfs)</u>	<u>Date</u>	<u>(cfs)</u>
11-18-55	0.264	9- 1-59	0.40
6- 7-56	.320	11-24-59	3.02
8-14-56	0	7- 6-60	0
9-19-56	0	11-18-60	3.57
12- 5-56	.815	5-15-61	2.08
5- 7-59	31.		

21. Black Bayou at Leton, La. (07-3487.60)  
 Location.--Lat 32°51'10", long 93°15'05", at bridge on State Highway 2, and 0.5 mile south of Leton.  
 Drainage area.--49.8 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3488.00.  
 Number of discharge measurements.--6.
23. Brushy Creek near Hortman, La. (07-3489.00)  
 Location.--Lat 32°41'40", long 93°22'40", at bridge on State Highway 7, and 2.4 miles south of Hortman.  
 Drainage area.--16.1 sq mi.  
 Period of measurements.--1955-60.  
 Index station.--No satisfactory correlation with an index station



## PARTIAL-RECORD STATIONS

Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
8-19-55	0.01 (est)	7-15-57	0
10-20-55	0	8- 6-58	0
12- 6-55	.280	11- 5-58	0
4-27-56	.484	4- 7-59	.801
9-17-56	0	9- 9-59	0
12-12-56	0	9- 8-60	0

25. Brushy Creek near Sibley, La. (07-3491.00)

Location.--Lat 32°28'50", long 93°18'00", at bridge on State Highway 7, and 4 miles south of Sibley.  
 Drainage area.--43.6 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3488.00.  
 Number of discharge measurements.--15.

26. Clarke Bayou near Haughton, La. (07-3492.00)

Location.--Lat 32°34'05", long 93°29'10", at upstream bridge on U.S. Highway 79 and 80, and 2.5 miles northeast of Haughton.  
 Drainage area.--35.1 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3488.00.  
 Number of discharge measurements.--18.

28. Caney Creek near Cotton Valley, La. (07-3496.00)

Location.--Lat 32°49'20", long 93°29'15", at bridge on State Highway 160, and 5 miles west of Cotton Valley.  
 Drainage area.--63.9 sq mi.  
 Period of measurements.--1954-59 (discontinued 1959).  
 Index station.--Correlated with station 07-3498.00.  
 Number of discharge measurements.--10.

31. Black Bayou at Benton, La. (07-3498.40)

Location.--Lat 32°41'40", long 93°43'40", at bridge on State Highway 162, and 0.25 mile east of Benton.  
 Drainage area.--17.2 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
7-12-55	0	9-19-56	0
8-17-55	0	12-12-56	0
9-19-55	0	7-15-57	0
10-20-55	0	8- 5-58	0
11- 1-55	0	11- 5-58	0
11-18-55	0	4- 7-59	0
12- 7-55	.002 (est)	9- 8-59	0
3- 8-56	.040	9- 8-60	0
8-13-56	0	5-23-61	0

37. Rambin Bayou near Frierson, La. (07-3516.70)

Location.--Lat 32°13'25", long 93°42'15", at bridge on State Highway 175, and 1.75 miles south of Frierson.  
 Drainage area.--59.6 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 08-0230.00.  
 Number of discharge measurements.--15.

39. Buffalo Bayou near Naborton, La. (07-3517.20)

Location.--Lat 32°04'30", 93°35'45", at bridge on parish road, and 2.5 miles north of Naborton.  
 Drainage area.--17.7 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3517.00.  
 Number of discharge measurements.--11.

40. Bayou Terre Blanc near Allen, La. (07-3517.60)

Location.--Lat 31°46'20", long 93°17'55", at bridge on parish road, and 4 miles south of Allen.  
 Drainage area.--26.6 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3517.00.  
 Number of discharge measurements.--14.

PARTIAL-RECORD STATIONS

43. Saline Bayou near Goldonna, La. (07-3521.00)  
 Location.--Lat 32°00'00", long 92°53'35", at bridge on State Highway 156, and 1.5 miles southeast of Goldonna.  
 Drainage area.--293 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3520.00.  
 Number of discharge measurements.--6.
44. Black Lake Bayou near Minden, La. (07-3522.00)  
 Location.--Lat 32°34'50", long 93°10'55", at bridge on U.S. Highway 80, and 7 miles southeast of Minden.  
 Drainage area.--38.6 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3488.00 & 07-3520.00.  
 Number of discharge measurements.--13.
45. Bear Creek near Ada, La. (07-3522.50)  
 Location.--Lat 32°33'10", long 93°09'20", at bridge on U.S. Highway 80, and 1 mile northwest of Ada.  
 Drainage area.--53.1 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3520.00.  
 Number of discharge measurements.--5.
46. Black Lake Creek near Gibsland, La. (07-3523.00)  
 Location.--Lat 32°32'45", long 93°05'10", at I.C.R.R. bridge near bridge on U.S. Highway 80, and 2.0 miles west of Gibsland.  
 Drainage area.--46.1 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3650.00.  
 Number of discharge measurements.--13.
47. Leathermans Creek near Gibsland, La. (07-3523.50)  
 Location.--Lat 32°32'40", long 93°06'20", at bridge on U.S. Highway 80, and 3.2 miles west of Gibsland.  
 Drainage area.--57 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3488.00.  
 Number of discharge measurements.--7.
48. Kepler Creek near Sparta, La. (07-3524.00)  
 Location.--Lat 32°22'05", long 93°05'35", at bridge on State Highway 507, and 0.8 mile west of Sparta.  
 Drainage area.--21.1 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3520.00.  
 Number of discharge measurements.--15.
50. Mill Creek near Castor, La. (07-3526.00)  
 Location.--Lat 32°13'55", long 93°14'00", at bridge on parish road and 4.5 miles southwest of Castor.  
 Drainage area.--21.5 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3520.00.  
 Number of discharge measurements.--12.
51. Castor Creek at Castor, La. (07-3527.00)  
 Location.--Lat 32°14'35", long 93°09'30", at bridge on State Highway 153, and 0.8 mile southeast of Castor.  
 Drainage area.--27.9 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3520.00.  
 Number of discharge measurements.--15.
52. Brushy Creek near Liberty, La. (07-3527.50)  
 Location.--Lat 32°02'20", long 93°11'50", at bridge on State Highway 507, and 2.5 miles south of Liberty.  
 Drainage area.--13.3 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
9-26-56	0	4-15-59	5.47
12- 7-56	0	9- 8-59	0
1-10-57	.165	12- 1-59	1.38
6-25-57	.803	9- 6-60	0
8- 4-58	0	6- 2-61	0
11- 4-58	.560	9-11-61	.42

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58. Kisatchie Bayou near Bellwood, La. (07-3541.00)  
 Location.--Lat 31°29'05", long 93°08'20", at bridge on Lotus-Gorum Forest Service Road, and 5 miles south-east of Bellwood.  
 Drainage area.--140 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3545.00.  
 Number of discharge measurements.--16.
59. Bayou Santabarb at Bellwood, La. (07-3542.00)  
 Location.--Lat 31°32'10", long 93°12'25", at bridge on State Highway 117, and 0.6 mile north of Bellwood.  
 Drainage area.--51.1 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3540.00.  
 Number of discharge measurements.--15.
60. Middle Creek near Bellwood, La. (07-3543.00)  
 Location.--Lat 31°30'25", long 93°11'50", at bridge on State Highway 117, and 1.6 miles south of Bellwood.  
 Drainage area.--40.0 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3540.00.  
 Number of discharge measurements.--12.
62. Bayou Pierre at Gorum, La. (07-3548.00)  
 Location.--Lat 31°26'00", long 92°56'30", at bridge on State Highway 119 at Gorum.  
 Drainage area.--19.1 sq mi.  
 Period of measurements.--1957-61.  
 Index station.--Correlated with station 07-3540.00.  
 Number of discharge measurements.--9.
64. Iatt Creek near Faircloth, La. (07-3551.50)  
 Location.--Lat 31°39'25", long 92°38'45", at bridge on State Highway 122, and 4.5 miles northwest of Faircloth.  
 Drainage area.--114 sq mi.  
 Period of measurements.--1947-57 (discontinued 1959).  
 Index station.--Correlated with station 07-3730.00.  
 Number of discharge measurements.--5.
65. Black Creek near Faircloth, La. (07-3552.00)  
 Location.--Lat 31°38'00", long 92°38'00", at bridge on State Highway 122, and 3 miles northwest of Faircloth.  
 Drainage area.--26.4 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3730.00.  
 Number of discharge measurements.--17.
66. Bayou du Grappe near Colfax, La. (07-3553.50)  
 Location.--Lat 31°33'45", long 92°44'05", at bridge on parish road, and 3 miles north of Colfax.  
 Drainage area.--15.1 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
9-27-56	0	11-12-58	.06 (est)
12- 6-56	0	9-18-59	0
7- 2-57	57.3	12- 1-59	0
8- 4-58	0	9- 7-61	0

72. Bayou de Loutre at De Loutre, La. (07-3647.50)  
 Location.--Lat 32°50'20", long 92°18'40", at bridge on State Highway 33, and 0.6 mile north of De Loutre.  
 Drainage area.--302 sq mi.  
 Period of measurements.--1948-61.  
 Index station.--Correlated with station 07-3647.00.  
 Number of discharge measurements.--19.
73. Bayou D'Arbonne at Homer, La. (07-3648.00)  
 Location.--Lat 32°48'30", long 93°03'20", at bridge on U.S. Highway 79, and 0.2 mile north of Homer town limit.  
 Drainage area.--30.0 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3662.00.  
 Number of discharge measurements.--15.

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74. Big Creek near Vienna, La. (07-3649.00)

Location.--Lat 32° 37' 50", long 92° 43' 25", at bridge on State Highway 146, and 5.3 miles northwest of Vienna.  
 Drainage area.--68.9 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with Station 07-3650.00.  
 Number of discharge measurements.--13.

76. Cypress Creek near Unionville, La. (07-3651.00)

Location.--Lat 32° 39' 35", long 92° 35' 15", at bridge on State Highway 822, and 3.2 miles east of Unionville.  
 Drainage area.--63.3 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3520.00.  
 Number of discharge measurements.--13.

77. Middle Fork Bayou D'Arbonne near Colquitt, La. (07-3653.00)

Location.--Lat 32° 55' 40", long 92° 59' 40", at bridge on State Highway 520, and 2.0 miles southwest of Colquitt.  
 Drainage area.--43.9 sq mi.  
 Period of measurements.--1948-61.  
 Index station.--Correlated with station 07-3662.00.  
 Number of discharge measurements.--18.

79. Little Corney Bayou near Summerfield, La. (07-3658.50)

Location.--Lat 32° 58' 15", long 92° 52' 25", at bridge on parish road, and 5 miles north of Summerfield.  
 Drainage area.--54.0 sq mi.  
 Period of measurements.--1957-61.  
 Index station.--Correlated with station 07-3647.00.  
 Number of discharge measurements.--12.

82. Stowe Creek near Farmerville, La. (07-3663.50)

Location.--Lat 32° 40' 20", long 92° 28' 20", at bridge on State Highway 151, and 8 miles southwest of Farmerville.  
 Drainage area.--29.0 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3520.00.  
 Number of discharge measurements.--10.

83. Bayou Choudrant at Tremont, La. (07-3664.00)

Location.--Lat 32° 31' 20", long 92° 27' 00", at bridge on U.S. Highway 80, and 0.3 mile northeast of Tremont.  
 Drainage area.--87.5 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3520.00.  
 Number of discharge measurements.--17.

85. North Cheniere Creek at Cheniere, La. (07-3673.00)

Location.--Lat 32° 29' 35", long 92° 15' 40", at bridge on State Highway 546, and 1 mile south of Cheniere.  
 Drainage area.--38.0 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3662.00.  
 Number of discharge measurements.--18.

90. Big Creek at Holly Ridge, La. (07-3685.20)

Location.--Lat 32° 28' 00", long 91° 36' 40", at bridge on U.S. Highway 80, and 0.5 mile east of Holly Ridge.  
 Drainage area.--171 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
8-23-55	1.82	11- 6-58	trace
9-14-55	0	4- 7-59	3.99
10-18-55	0	11- 9-59	37.4
5-15-56	.558	12- 8-59	3.53
7-17-56	0	2-15-60	56.8
9-17-56	0	4-12-60	5.34
12- 3-56	1.74	9-12-60	5.22
6-11-57	4.57	10-11-60	.231
10- 8-57	0	5- 5-61	10.1
8- 5-58	.637	9- 6-61	2.59

91. Big Creek near Mangham, La. (07-3685.40)

Location.--Lat 32° 17' 30", long 91° 45' 45", at bridge on State Highway 15, and 1.5 miles southeast of Mangham.  
 Drainage area.--347 sq mi.  
 Period of measurements.--1957-61.  
 Index station.--Correlated with station 07-3680.00.  
 Number of discharge measurements.--8.

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92. Little Creek near Mangham, La. (07-3685.60)

Location.--Lat 32°18'00", long 91°49'20", at bridge on parish road, and 3 miles west of Mangham.  
 Drainage area.--25.1 sq mi.  
 Period of measurements.--1956-62.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
9-17-56	0	9-16-59	0.025
12- 4-56	0	9-22-60	0
6-13-57	.261	5-10-61	.060
8-14-58	0	9- 5-61	0
11-12-58	.1 (trace)	4- 5-62	.14
4-16-59	1.57		

93. Bayou Galion near Mer Rouge, La. (07-3687.50)

Location.--Lat 32°46'15", long 91°45'25", at bridge on State Highway 2, and 2 miles east of Mer Rouge.  
 Drainage area.--22.9 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3643.00.  
 Number of discharge measurements.--9.

95. Turkey Creek at Winnsboro, La. (07-3692.00)

Location.--Lat 32°09'50", long 91°42'40", at bridge on old State Highways 4 and 17, at Winnsboro.  
 Drainage area.--101 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3680.00 and 07-3695.00.  
 Number of discharge measurements.--13.

96. Deer Creek near Wisner, La. (07-3693.00)

Location.--Lat 31°57'00", long 91°39'15", at bridge on State Highway 15, and 2 miles south of Wisner.  
 Drainage area.--27.1 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
7-22-55	0	8-13-57	0
10-24-55	0	8-14-58	0
5-23-56	0	11-12-58	0
7-16-56	0	4-16-59	0
9-26-56	0	9-16-59	0
12- 4-56	0	9-22-60	dry
6-12-57	0	9- 6-61	0

97. Bushley Creek at Manifest, La. (07-3693.60)

Location.--Lat 31°42'50", long 91°56'10", at bridge on State Highway 8, and 0.5 mile east of Manifest.  
 Drainage area.--64.7 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3730.00.  
 Number of discharge measurements.--16.

99. Bayou Vidal at Quimby, La. (07-3696.40)

Location.--Lat 32°14'00", long 91°12'55", at bridge on U.S. Highway 65, and at Quimby.  
 Drainage area.--160 sq mi.  
 Period of measurements.--1956-62.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
10-16-56	0	4- 7-59	11.6
12- 4-56	0	10- 6-59	3.27
6-11-57	14.5	12- 8-59	1.61
8-29-57	.02	6- 8-60	3.50
10- 8-57	.270	9- 6-61	3.32
8- 5-58	5.01	4- 4-62	77.2
11- 6-58	4.43		

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102. Castor Creek at Chatham, La. (07-3702.00)

Location.--Lat 32°19'10", long 92°26'15", at bridge on State Highway 34, and 1.0 mile northeast of Chatham.  
 Drainage area.--60.0 sq mi.  
 Period of measurements.--1951-61.  
 Index station.--Correlated with station 07-3705.00.  
 Number of discharge measurements.--15.

103. Bills Creek near Mount Pleasant, La. (07-3704.00)

Location.--Lat 32°10'45", long 92°12'10", at bridge on State Highway 4, and 3 miles north of Mount Pleasant.  
 Drainage area.--24.7 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3705.00.  
 Number of discharge measurements.--9.

105. Black Bayou near Clarks, La. (07-3705.50)

Location.--Lat 32°00'20", long 92°12'00", at bridge on parish road, and 4 miles southeast of Clarks.  
 Drainage area.--49 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3725.00.  
 Number of discharge measurements.--5.

106. Beaucoup Creek near Cotton Plant, La. (07-3706.00)

Location.--Lat 32°06'40", long 92°19'20", at bridge on State Highway 126, and 3.3 miles west of Cotton Plant.  
 Drainage area.--127 sq mi.  
 Period of measurements.--1948-61.  
 Index station.--Correlated with station 07-3705.00.  
 Number of discharge measurements.--16.

107. Beech Creek near Olla, La. (07-3707.00)

Location.--Lat 31°54'55", long 92°23'35", at bridge on State Highway 124, and 9 miles west of Olla.  
 Drainage area.--58 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3705.00.  
 Number of discharge measurements.--12.

108. Big Chickasaw Creek near Olla, La. (07-3707.50)

Location.--Lat 31°52'30", long 92°13'35", at bridge on State Highway 127, and 2 miles southeast of Olla.  
 Drainage area.--86 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
12-14-55	0.258	8-18-58	1.43
5-23-56	.130	11-20-58	1.29
7-16-56	.064	4-16-59	13.0
9-27-56	.00	9-15-59	.176
11-19-56	.176	10-18-60	dry
12- 4-56	.00	5- 9-61	.733
6-12-57	2.42		

109. Castor Creek at Tullos, La. (07-3708.00)

Location.--Lat 31°49'45", long 92°20'20", at bridge on U.S. Highway 84, and 0.9 mile west of Tullos.  
 Drainage area.--923 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 07-3720.00.  
 Number of discharge measurements.--10.

110. Dugdemona River near Quitman, La. (07-3708.20)

Location.--Lat 32°20'40", long 92°44'40", at bridge on State Highway 155, and 1.7 miles west of Quitman.  
 Drainage area.--117 sq mi.  
 Period of measurements.--1958-61.  
 Index station.--Correlated with station 07-3720.00.  
 Number of discharge measurements.--7.

111. Cypress Creek at Quitman, La. (07-3709.30)

Location.--Lat 32°20'45", long 92°42'55", at bridge on U.S. Highway 167, and 0.5 mile east of Quitman.  
 Drainage area.--46.0 sq mi.  
 Period of measurements.--1948-61.  
 Index station.--Correlated with station 07-3520.00.  
 Number of discharge measurements.--15.

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113. Dukedall Creek near Danville, La. (07-3710.50)

Location.--Lat 32°15'30", long 29°48'45", at bridge on parish road, and 3.2 miles northeast of Danville.  
 Drainage area.--19.5 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3710.00.  
 Number of discharge measurements.--6.

115. Big Creek near Dodson, La. (07-3718.00)

Location.--Lat 32°05'40", long 92°41'25", at bridge on State Highway 126, and 2 miles northwest of Dodson.  
 Drainage area.--81 sq mi.  
 Period of measurements.--1948-57.  
 Index station.--Correlated with station 07-3715.00.  
 Number of discharge measurements.--5.

117. Port de Luce Creek at Winnfield, La. (07-3721.00)

Location.--Lat 31°56'15", long 92°39'05", at bridge on U.S. Highway 167, and 0.9 mile north of Winnfield.  
 Drainage area.--31.0 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3725.00.  
 Number of discharge measurements.--6.

119. Bear Creek near Packton, La. (07-3723.00)

Location.--Lat 31°47'05", long 92°34'40", at bridge on U.S. Highway 167, and 1.1 miles south of Packton.  
 Drainage area.--11 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
9-21-56	0	12- 1-59	dry
11-21-58	.084	10-19-60	dry
5-12-59	.476	5-12-61	.681
9-17-59	dry	9- 6-61	0

121. Fish Creek near Pollock, La. (07-3726.00)

Location.--Lat 31°38'20", long 92°25'48", at bridge on U.S. Highway 165, and 7.5 miles north of Pollock.  
 Drainage area.--30.0 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3730.00.  
 Number of discharge measurements.--16.

123. Flagon Bayou near Tioga, La. (07-3732.00)

Location.--Lat 31°23'50", long 92°24'35", at bridge on U.S. Highway 165, and 1.5 miles northeast of Tioga.  
 Drainage area.--32.0 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3550.00 and 07-3730.00.  
 Number of discharge measurements.--20.

124. Hemphill Creek at Nebo, La. (07-3732.50)

Location.--Lat 31°35'05", long 92°07'55", at bridge on State Highway 460, and 0.6 mile east of Nebo.  
 Drainage area.--35.3 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3730.00.  
 Number of discharge measurements.--10.

125. Bayou Sara near St. Francisville, La. (07-3733.00)

Location.--Lat 30°50'45", long 91°24'15", at bridge on State Highway 66 about 5 miles northeast of St. Francisville.  
 Drainage area.--104 sq mi.  
 Period of measurements.--1956-62.  
 Index station.--Correlated with station 07-2950.00.  
 Number of discharge measurements.--14.

126. Spring Grove Branch near St. Francisville, La. (07-3733.50)

Location.--Lat 30°50'40", long 91°24'00", at bridge on State Highway 66, and about 5 miles northeast of St. Francisville.  
 Drainage area.--1.34 sq mi.  
 Period of measurements.--1957-62.  
 Index station.--No satisfactory correlation with an index station.

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Discharge		Discharge	
Date	(cfs)	Date	(cfs)
8-27-57	.335	6- 7-60	.369
10- 2-57	.47	9-22-60	.38
11-26-58	.536	12- 4-61	.571
9-28-59	.534	2-14-62	.85
12- 3-59	.640	5-30-62	.49
4-18-60	.22 (est)		
<u>127. Little Bayou Sara near Turnbull, La. (07-3734.00)</u>			
Location.--Lat 30°58'15", long 91°28'50", at bridge on State Highway 66, and 1.2 miles northwest of Turnbull.			
Drainage area.--22.3 sq mi.			
Period of measurements.--1955-62.			
Index station.--Correlated with station 07-3775.00.			
Number of discharge measurements.--17.			
<u>128. Thompson Creek at Jackson, La. (07-3734.50)</u>			
Location.--Lat 30°50'25", long 91°13'35", at bridge on State Highway 10, and 0.5 mile west of Jackson.			
Drainage area.--99.3 sq mi.			
Period of measurements.--1955-62.			
Index station.--Correlated with station 07-3775.00.			
Number of discharge measurements.--17.			
<u>130. Alexander Creek near St. Francisville, La. (07-3738.00)</u>			
Location.--Lat 30°42'55", long 91°22'05", at bridge on State Highway 10, and 2 miles northeast of St. Francisville.			
Drainage area.--23.9 sq mi.			
Period of measurements.--1955-62.			
Index station.--Correlated with station 07-3775.00.			
Number of discharge measurements.--10.			
<u>131. Bayou Baton Rouge near Baker, La. (07-3739.50)</u>			
Location.--Lat 30°35'30", long 91°13'10", at bridge on parish road about 3 miles northwest of Baker.			
Drainage area.--17.6 sq mi.			
Period of measurements.--1956-62.			
Index station.--Correlated with station 07-3780.00.			
Number of discharge measurements.--11.			
<u>132. Tchefuncta River near Franklinton, La. (07-3747.00)</u>			
Location.--Lat 30°44'36", long 90°15'52", at bridge on State Highway 16, and 9 miles southeast of Franklinton.			
Drainage area.--53.1 sq mi.			
Period of measurements.--1955-62.			
Index station.--Correlated with station 07-3750.00.			
Number of discharge measurements.--10.			
<u>134. Bogue Falaya near Covington, La. (07-3751.50)</u>			
Location.--Lat 30°31'28", long 90°06'47", at St. Benedict bridge, and 3 miles northwest of Covington.			
Drainage area.--76.5 sq mi.			
Period of measurements.--1955-62.			
Index station.--Correlated with station 07-3750.00, 07-3755.00, and 02B-4920.00.			
Number of discharge measurements.--11.			
<u>135. Little Bogue Falaya near Covington, La. (07-3752.00)</u>			
Location.--Lat 30°32'00", long 90°03'25", at bridge on parish road, and about 4 miles north of Covington.			
Drainage area.--17.4 sq mi.			
Period of measurements.--1956-62.			
Index station.--Correlated with station 07-3755.00.			
Number of discharge measurements.--7.			
<u>136. Abita River at Abita Springs, La. (07-3752.20)</u>			
Location.--Lat 30°28'55", long 90°01'35", at bridge on State Highway 435, and 0.5 mile east of Abita Springs.			
Drainage area.--28.9 sq mi.			
Period of measurements.--1955-62.			
Index station.--No satisfactory correlation with an index station.			
Discharge measurements made.--			

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
9-29-55	3.19	12- 9-59	8.94
10-26-55	.76	4-21-60	3.49
8- 8-56	3.94	7- 7-60	.223
9-28-56	1.68	2-14-62	11.6
9-17-57	2.51	5-28-62	0
10- 9-57	2.74	7-26-62	.211



## PARTIAL-RECORD STATIONS

137. Tangipahoa River near Kentwood, La. (07-3753.00)

Location.--Lat 30°56'15", long 90°29'25", at bridge on State Highway 38, and 1.1 miles east of Kentwood.  
 Drainage area.--237 sq mi.  
 Period of measurements.--1957-62.  
 Index station.--Correlated with station 07-3755.00.  
 Number of discharge measurements.--7.

138. Beaver Creek at Tangipahoa, La. (07-3754.00)

Location.--Lat 30°52'57", long 90°30'43", at bridge on U.S. Highway 51, and 0.5 mile north of Tangipahoa.  
 Drainage area.--25.5 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with station 07-3770.00.  
 Number of discharge measurements.--12.

139. Chappelpeela Creek near Loranger, La. (07-3754.60)

Location.--Lat 30°40'55", long 90°19'00", at bridge on parish road, and 6 miles northeast of Loranger.  
 Drainage area.--24.4 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with station 07-3750.00 and 07-3755.00.  
 Number of discharge measurements.--10.

141. Washley Creek near Robert, La. (07-3756.00)

Location.--Lat 30°30'20", long 90°18'30", at bridge on U.S. Highway 190, and 2 miles east of Robert.  
 Drainage area.--25.3 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
9-29-55	1.96	12- 9-59	no flow
10-26-55	.031	4-21-60	.453
8- 8-56	.30	7- 6-60	no flow
9-28-56	.116	2-14-62	4.43
9-16-57	4.21	5-28-62	no flow
10- 9-57	1.73	7-26-62	no flow
11- 4-57	.62		

143. Tickfaw River near Greensburg, La. (07-3758.50)

Location.--Lat 30°48'55", long 90°38'10", at bridge on State Highway 10, and 1.8 miles southeast of Greensburg.  
 Drainage area.--136 sq mi.  
 Period of measurements.--1957-62.  
 Index station.--Correlated with station 07-3760.00.  
 Number of discharge measurements.--11.

144. Joseph Branch at Greensburg, La. (07-3759.00)

Location.--Lat 30°50'01", long 90°39'58", at bridge on State Highway 43, and 0.3 mile north of Greensburg.  
 Drainage area.--11.6 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with station 07-3770.00 and 07-3775.00.  
 Number of discharge measurements.--14.

145. Twelvemile Creek near Montpelier, La. (07-3759.30)

Location.--Lat 30°41'50", long 90°30'54", at bridge on State Highway 43, and 1.1 miles north of Montpelier.  
 Drainage area.--45.0 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with station 07-3760.00.  
 Number of discharge measurements.--13.

147. Hog Branch near Doyle, La. (07-3762.00)

Location.--Lat 30°30'10", long 90°42'20", at bridge on U.S. Highway 190, and 2.0 miles east of Doyle.  
 Drainage area.--110 sq mi.  
 Period of measurements.--1957-62.  
 Index station.--Correlated with station 07-3760.00.  
 Number of discharge measurements.--9.

149. Beaver Creek near Felixville, La. (07-3768.00)

Location.--Lat 30°57'46", long 90°51'48", on parish road, and 1.5 miles northeast of Felixville.  
 Drainage area.--123 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with station 07-3770.00.  
 Number of discharge measurements.--15.

PARTIAL-RECORD STATIONS

151. Darlings Creek near Darlington, La. (07-3770.50)

Location.--Lat 30°53'00", long 90°48'20", at bridge on State Highway 10, and 1.5 miles west of Darlington.  
 Drainage area.--54.3 sq mi.  
 Period of measurements.--1957-62.  
 Index station.--Correlated with stations 07-3770.00 and 07-3775.00.  
 Number of discharge measurements.--9.

152. Bluff Creek at Bluff Creek, La. (07-3771.00)

Location.--Lat 30°56'38", long 90°52'38", on gravel road, and at Bluff Creek.  
 Drainage area.--26.3 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with station 07-3775.00.  
 Number of discharge measurements.--13.

153. Sandy Creek near Clinton, La. (07-3772.00)

Location.--Lat 30°47'30", long 90°57'30", at bridge on parish road, and 6.2 miles southeast of Clinton.  
 Drainage area.--27.3 sq mi.  
 Period of measurements.--1957-62.  
 Index station.--Correlated with station 07-3775.00.  
 Number of discharge measurements.--9.

154. Sandy Creek near Greenwell Springs, La. (07-3772.50)

Location.--Lat 30°36'08", long 90°59'37", at Camp Istrouma on State Highway 37, and 1.5 miles north of Greenwell Springs.  
 Drainage area.--114 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with station 07-3780.00.  
 Number of discharge measurements.--14.

155. Comite River near Clinton, La. (07-3774.00)

Location.--Lat 30°51'30", long 91°02'20", at bridge on State Highway 10, and 1.3 miles west of Clinton.  
 Drainage area.--88.0 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with stations 07-3770.00 and 07-3780.00.  
 Number of discharge measurements.--15.

157. Redwood Creek near Slaughter, La. (07-3777.00)

Location.--Lat 30°43'44", long 91°06'54", at bridge on State Highway 412, and 2 miles northeast of Slaughter.  
 Drainage area.--42.4 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--Correlated with station 07-3775.00.  
 Number of discharge measurements.--15.

158. White Bayou near Zachary, La. (07-3778.00)

Location.--Lat 30°38'10", long 91°07'38", at bridge on parish road, and 2 miles southeast of Zachary.  
 Drainage area.--65.7 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
9-30-55	.02 (est)	12- 3-59	.876
10-28-55	0	4-19-60	1.07
8-10-56	1.30	6- 7-60	.105
9-29-56	0	9-23-60	.03
8-29-57	.001	12- 5-61	1.52
10- 1-57	11.1	2-14-62	4.31
12- 1-58	0	5-29-62	dry
9-29-59	.973		

159. Cypress Bayou near Zachary, La. (07-3739.60)

Location.--Lat 30°36'45", long 91°10'15", at bridge on parish road, and about 2 miles south of Zachary.  
 Drainage area.--11.2 sq mi.  
 Period of measurements.--1957-62.  
 Index station.--Correlated with station 07-3775.00.  
 Number of discharge measurements.--8.

162. Jones Creek near Woodlawn, La. (07-3787.00)

Location.--Lat 30°24'50", long 91°00'50", at bridge on parish road, and 1.6 miles north of Woodlawn High School.  
 Drainage area.--19.5 sq mi.  
 Period of measurements.--1956-62.  
 Index station.--No satisfactory correlation with an index station.

## PARTIAL-RECORD STATIONS

Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
8-10-56	1.24	4-21-60	1.70
10-18-56	0	6-16-60	1.66
11-28-58	.302	10-20-61	.787 (est)
9-30-59	2.41	2-14-62	2.78

166. Colyell Creek at Livingston, La. (07-3801.30)

Location.--Lat 30°30'10", long 90°46'10", at bridge on U.S. Highway 190, and 1.0 mile west of Livingston.  
 Drainage area.--20.7 sq mi.  
 Period of measurements.--1955-62.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
9-30-55	0	9-30-59	no flow
10-26-55	0	12- 9-59	no flow
8-10-56	0	4-21-60	.132 (est)
10- 9-56	0	6-21-60	no flow
9- 3-57	0	12- 6-61	.601
10- 4-57	0.71	2-14-62	2.38
11-26-58	0	5-28-62	no flow

167. Middle Colyell Creek near Walker, La. (07-3801.60)

Location.--Lat 30°29'45", long 90°50'30", at bridge on U.S. Highway 190, and 1.3 miles east of Walker.  
 Drainage area.--20.3 sq mi.  
 Period of measurements.--1956-62.  
 Index station.--Correlated with station 07-3770.00.  
 Number of discharge measurements.--10.

168. West Colyell Creek near Walker, La. (07-3801.80)

Location.--Lat 30°29'05", long 90°53'35", at bridge on U.S. Highway 190, and 2.0 miles west of Walker.  
 Drainage area.--28.5 sq mi.  
 Period of measurements.--1956-62.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
8-10-56	.226	12- 9-59	no flow
10- 9-56	.106	4-21-60	1.37
9- 3-57	.005 (est)	6-21-60	no flow
10- 4-57	.060	12- 6-61	1.07
11-26-58	.045	2-14-62	5.53
9-30-59	.24 (est)	5-28-62	0.52

173. Castor Creek near Alexandria, La. (07-3822.00)

Location.--Lat 31°12'35", long 92°34'10", about 0.7 mile downstream from Castor Plunge road, and 8 miles southwest of Alexandria.  
 Drainage area.--28.5 sq mi.  
 Period of measurements.--1957-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
3- 4-57	46.3	4-25-60	9.29
8-16-57	.140 (est)	6- 1-60	14.7
5- 4-59	30.7	6- 1-61	22.6
9-22-59	19.1	9- 7-61	24.4
2- 2-60	23.1		

175. Bayou Carron at Washington, La. (07-3827.00)

Location.--Lat 30°36'40", long 92°03'50", at bridge on State Highway 10, about 0.5 mile southwest of Washington.  
 Drainage area.--82.6 sq mi.  
 Period of measurements.--1955-62  
 Index station.--No satisfactory correlation with an index station.

## PARTIAL-RECORD STATIONS

Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
10-24-55	0	4-21-60	1.10
8-17-56	3.64	6- 9-60	2.50
9-25-56	3.17	10- 2-61	.792
10-19-56	2.15	2-16-62	.613
7-17-57	33.1	5-30-62	.365

185. Coulee de Manuel near Ville Platte, La. (08-0099.50)

Location.--Lat 30°38'20", long 92°17'00", at bridge on State Highway 29, and 3.5 miles south of Ville Platte.

Drainage area.--10.9 sq mi.

Period of measurements.--1956-62.

Index station.--Correlated with station 08-0100.00.

Number of discharge measurements.--5.

187. Bayou Mallet near Eunice, La. (08-0101.00)

Location.--Lat 30°26'30", long 92°24'45", at bridge on Highway 26, and 3.5 miles south of Eunice.

Drainage area.--94.5 sq mi.

Period of measurements.--1954-62.

Index station.--Correlated with station 08-0100.00.

Number of discharge measurements.--4.

188. Bayou Plaquemine Brule at Church Point, La. (08-0102.00)

Location.--Lat 30°24'35", long 92°13'15", at bridge on State Highway 95, and at Church Point.

Drainage area.--48.2 sq mi.

Period of measurements.--1955-62.

Index station.--No satisfactory correlation with an index station.

Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
10-24-55	0	8-14-57	5.17
8-16-56	.27	11- 4-57	.08
9-25-56	1.72	4-22-60	.464
10-19-56	.277	2-16-62	.046 (est)
7-17-57	8.93		

192. Beaver Creek at Beaver, La. (08-0116.00)

Location.--Lat 30°47'23", long 92°34'05", at bridge on State Highway 10, and 0.5 mile southeast of Beaver.

Drainage area.--14.4 sq mi.

Period of measurements.--1954-62.

Index station.--Correlated with station 08-0130.00.

Number of discharge measurements.--6.

193. Castor Creek at Hampton, La. (08-0118.00)

Location.--Lat 30°37'15", long 92°37'00", at bridge on parish road, and 0.5 mile north of Hampton.

Drainage area.--43.9 sq mi.

Period of measurements.--1956-60.

Index station.--Correlated with stations 08-0130.00 and 08-0135.00.

Number of discharge measurements.--6.

194. Bayou Durald near Basile, La. (08-0119.00)

Location.--Lat 30°33'55", long 92°32'20", at bridge on State Highway 371, and about 7 miles northeast of Basile.

Drainage area.--28.7 sq mi.

Period of measurements.--1956-62.

Index station.--No satisfactory correlation with an index station.

Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
9-25-56	0.229	10- 3-61	0.256
10-19-56	.042	2-16-62	.655
4-21-60	.480	5-30-62	no flow

195. Bayou Blue near Kinder, La. (08-0119.50)

Location.--Lat 30°32'15", long 92°45'15", on line between sec. 14 and sec. 23, T. 6 S., R. 4 W., at bridge on parish road about 6 miles northwest of Kinder.

Drainage area.--65.0 sq mi.

Period of measurements.--1956-62.

Index station.--Correlated with station 08-0120.00.

Number of discharge measurements.--6.

## PARTIAL-RECORD STATIONS

197. Calcasieu River near Slagle, La. (08-0126.00)

Location.--Lat 31°11'25", long 93°06'00", at bridge on State Highway 8, and 2 miles northeast of Slagle.  
 Drainage area.--48.1 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3540.00 and 08-0275.00.  
 Number of discharge measurements.--12.

198. Big Creek near Leander, La. (08-0127.00)

Location.--Lat 31°08'30", long 92°49'30", at bridge on State Highway 28, and 1.4 miles east of Leander.  
 Drainage area.--37.1 sq mi.  
 Period of measurements.--1951-61.  
 Index station.--Correlated with station 08-0275.00.  
 Number of discharge measurements.--16.

199. Devils Creek near Flatwoods, La. (08-0128.00)

Location.--Lat 31°19'30", long 92°54'50", at bridge on State Highway 8, and 6 miles southwest of Flatwoods.  
 Drainage area.--37.4 sq mi.  
 Period of measurements.--1950-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
10- 5-50	0 (trace)	5- 4-59	0.94
10-24-55	0	8-31-59	0
8-14-56	0	11-24-59	0
9-27-56	0	4- 8-60	6.16
8-13-57	0	7-13-60	no flow
6-10-58	0	5-11-61	.03

201. Cherrywinch Creek near Oakdale, La. (08-0132.00)

Location.--Lat 30°52'35", long 92°41'40", at bridge on parish road, and 5 miles north of Oakdale.  
 Drainage area.--51.4 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3818.00.  
 Number of discharge measurements.--13.

203. Whiskey Chitto Creek at Fort Polk, La. (08-0136.00)

Location.--Lat 31 04'55", long 93°08'50", and on post road of Fort Polk.  
 Drainage area.--5.80 sq mi.  
 Period of measurements.--1956-60.  
 Index station.--Correlated with station 08-0275.00 and 08-0280.00.  
 Number of discharge measurements.--9.

204. Birds Creek near Cravens, La. (08-0136.50)

Location.--Lat 31°01'15", long 93°03'15", at bridge on parish road, and about 4 miles north of Cravens.  
 Drainage area.--22.0 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with stations 08-0275.00 and 08.0140.00.  
 Number of discharge measurements.--13.

205. Sixmile Creek at Pitkin, La. (08-0139.00)

Location.--Lat 30°55'25", long 92°56'40", at bridge on State Highway 113, and 1 mile south of Pitkin.  
 Drainage area.--88.6 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with stations 08-0140.00 and 08-0148.00.  
 Number of discharge measurements.--12.

206. Big Brushy Creek near Pitkin, La. (08-0139.50)

Location.--Lat 30°54'55", long 92°53'30", at bridge on State Highway 10, and 3 miles southeast of Pitkin.  
 Drainage area.--34.4 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 08-0148.00.  
 Number of discharge measurements.--13.

210. Flat Creek near De Ridder, La. (08-0146.00)

Location.--Lat 30°51'05", long 93°14'45", at bridge on State Highway 112, and 2.4 miles east of De Ridder.  
 Drainage area.--26.3 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 08-0148.00.  
 Number of discharge measurements.--16.

## PARTIAL-RECORD STATIONS

213. Dry Creek at Dry Creek, La. (08-0152.00)

Location.--Lat 30°39'25", long 93°02'45", at bridge on State Highway 113, and 1 mile south of Dry Creek.  
 Drainage area.--42.7 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 08-0145.00 and 08-0150.  
 Number of discharge measurements.--17.

215. Barnes Creek near Reeves, La. (08-0156.00)

Location.--Lat 30°31'00", long 93°08'28", at main channel bridge on U.S. Highway 190 and 5.5 miles west of Reeves.  
 Drainage area.--111 sq mi.  
 Period of measurements.--1952-61.  
 Index station.--Correlated with station 08-0164.00.  
 Number of discharge measurements.--9.

216. Clear Creek at Reeves, La. (08-0157.00)

Location.--Lat 30°31'10", long 93°03'10", at bridge on U.S. Highway 190, and at Reeves.  
 Drainage area.--23.1 sq mi.  
 Period of measurements.--1940-61.  
 Index station.--Correlated with station 08-0135.00.  
 Number of discharge measurements.--17.

217. Bayou Serpent near Fenton, La. (08-0158.00)

Location.--Lat 30°23'15", long 92°54'20", at bridge on U.S. highway 165, and 1.7 miles north of Fenton.  
 Drainage area.--89.0 sq mi.  
 Period of measurements.--1957-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
4- 7-57	5.59	10-26-60	46.4
9-29-59	34.2	4-26-61	2.75
12- 8-59	3.07	9-28-61	9.13
7- 7-60	21.5		

218. Cowpen Creek near De Ridder, La. (08-0162.00)

Location.--Lat 30°42'41", long 92°20'53", at bridge on State Highway 27, and 8.2 miles south of De Ridder.  
 Drainage area.--28.3 sq mi.  
 Period of measurements.--1957-1961.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
8- 5-57	0.05 (est)	4-28-60	1.62
6-11-58	.05	7-26-60	0
1-13-59	1.01	4-24-61	1.67
4- 7-59	2.82	9- 8-61	.43
9- 3-59	.092		

219. Beckwith Creek near Singer, La. (08-0163.00)

Location.--Lat 30°38'34", long 93°22'58", at bridge on State Highway 110, and 2 miles southeast of Singer.  
 Drainage area.--76.0 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 08-0164.00 and 08-0287.00.  
 Number of discharge measurements.--14.

221. Hickory Branch near Longville, La. (08-0165.00)

Location.--Lat 30°36'23", long 93°15'49", at bridge on State Highway 110, and 2.1 miles west of Longville.  
 Drainage area.--34.9 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 08-0287.00.  
 Number of discharge measurements.--13.

223. Bearhead Creek near Singer, La. (08-0167.00)

Location.--Lat 30°35'35", long 93°28'48", at bridge on State Highway 109, and 6 miles southwest of Singer.  
 Drainage area.--45.6 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 08-0164.00 and 08-0287.00.  
 Number of discharge measurements.--12.

## PARTIAL-RECORD STATIONS

225. Cowards Gully near De Quincy, La. (08-0169.90)  
 Location.--Lat 30°25'10", long 93°29'17", at bridge on State Highway 12, and 4.1 miles southwest of De Quincy.  
 Drainage area.--15.3 sq mi.  
 Period of measurements.--1952-61.  
 Index station.--Correlated with station 08-0164.00.  
 Number of discharge measurements.--8.
226. Buxton Creek near De Quincy, La. (08-0170.00)  
 Location.--Lat 30°21'25", long 93°27'10", at bridge on parish road, and 6 miles south of De Quincy.  
 Drainage area.--50.5 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 08-0164.00.  
 Number of discharge measurements.--9.
228. Bayou Castor near Longstreet, La. (08-0226.00)  
 Location.--Lat 32°05'35", long 93°55'15", at bridge on State Highway 169, and 1.8 miles east of Longstreet.  
 Drainage area.--27.7 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 08-0230.00.  
 Number of discharge measurements.--20.
229. Bushneck Bayou at Longstreet, La. (08-0227.00)  
 Location.--Lat 32°06'05", long 93°58'05", at bridge on State Highway 169, and 0.5 mile west of Longstreet.  
 Drainage area.--26.9 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 08-0230.00.  
 Number of discharge measurements.--14.
231. Bayou Grand Cane near Logansport, La. (08-0231.00)  
 Location.--Lat 31°57'15", long 93°57'45", at bridge on State Highway 763, and 2.5 miles southeast of Logansport.  
 Drainage area.--76.5 sq mi.  
 Period of measurements.--1955-61.  
 Index station.--Correlated with station 08-0230.  
 Number of discharge measurements.--13.
232. Clement Creek near Hunter, La. (08-0231.50)  
 Location.--Lat 31°55'00", long 93°53'10", at bridge on State Highway 763, and 2.5 miles northwest of Hunter.  
 Drainage area.--44.6 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with stations 07-3517.00 and 08-0235.00.  
 Number of discharge measurements.--13.
233. Cow Bayou near Hunter, La. (08-0232.50)  
 Location.--Lat 31°52'05", long 93°49'10", at bridge on State Highway 174, and 2.6 miles southeast of Hunter.  
 Drainage area.--29.2 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 07-3517.00.  
 Number of discharge measurements.--11.
234. Bayou San Patricio near Benson, La. (08-0234.00)  
 Location.--Lat 31°52'30", long 93°39'30", at bridge on State Highway 512, and 2.2 miles east of Benson.  
 Drainage area.--80.2 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 07-3517.00  
 Number of discharge measurements.--15.
236. Little Bayou San Miguel near Mitchell, La. (08-0237.00)  
 Location.--Lat 31°46'00", long 93°35'10", at bridge on parish road, and 3.0 miles southeast of Mitchell.  
 Drainage area.--33.4 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 08-0240.00.  
 Number of discharge measurements.--8.
238. Bayou Scie at Zwolle, La. (08-0240.30)  
 Location.--Lat 31°37'45", long 93°37'40", at bridge on U.S. Highway 171, and 1.0 mile east of Zwolle.  
 Drainage area.--45.9 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 08-0242.00.  
 Number of discharge measurements.--11.
240. Lewis Creek near Many, La. (08-0240.80)  
 Location.--Lat 31°35'25", long 93°31'40", at bridge on U.S. Highway 171, and 3.0 miles northwest of Many.  
 Drainage area.--12.5 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 08-0242.00.  
 Number of discharge measurements.--11.

PARTIAL-RECORD STATIONS

244. Bayou Negreet near Negreet, La. (08-0252.00)

Location.--Lat 31°25'05", long 93°37'50", at bridge on parish road, and 5 miles southwest of Negreet.  
 Drainage area.--52.1 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 08-0255.00.  
 Number of discharge measurements.--12.

246. Bayou Toro south of Toro, La. (08-0256.00)

Location.--Lat 31°14'45", long 93°32'40", at bridge on dirt road 2.5 miles south of Toro.  
 Drainage area.--187 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 08-0255.00.  
 Number of discharge measurements.--11.

247. Sandy Creek near Burr Ferry, La. (08-0257.00)

Location.--Lat 31°08'30", long 93°31'10", at bridge on State Highway 111, and 5.3 miles north of Burr Ferry.  
 Drainage area.--33.7 sq mi.  
 Period of measurements.--1960-61.  
 Index station.--Correlated with station 08-0255.00 and 08-0275.00.  
 Number of discharge measurements.--4.

248. Pearl Creek at Burr Ferry, La. (08-0259.00)

Location.--Lat 31°04'05", long 93°29'30", just off State Highway 8, and 0.5 mile west of Burr Ferry.  
 Drainage area.--18.0 sq mi.  
 Period of measurements.--1960-61.  
 Index station.--Correlated with station 08-0255.00.  
 Number of discharge measurements.--5.

250. Red Bank Creek at Evans, La. (08-0262.00)

Location.--Lat 30°59'30", long 93°29'55", at bridge on State Highway 111, and 0.5 mile south of Evans.  
 Drainage area.--17.2 sq mi.  
 Period of measurements.--1960-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
4- 8-60	8.27	4-20-61	12.8
7- 5-60	3.49	9- 8-61	10.8

251. East Anacoco Creek near Anacoco, La. (08-0272.00)

Location.--Lat 31°13'30", long 93°19'50", at bridge on U.S. Highway 171, and 2.0 miles southeast of Anacoco.  
 Drainage area.--40.6 sq mi.  
 Period of measurements.--1954-61.  
 Index station.--Correlated with station 08-0275.  
 Number of discharge measurements.--16.

254. Bayou Anacoco near Knight, La. (08-0282.00)

Location.--Lat 30°52'15", long 93°30'25", at bridge on State Highway 111, 4.5 miles southwest of Knight.  
 Drainage area.--415 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 08-0280.00.  
 Number of discharge measurements.--16.

255. Trout Creek near Merryville, La. (08-0283.00)

Location.--Lat 30°47'55", long 93°32'00", at bridge on U.S. Highway 190, and 3.5 miles north of Merryville.  
 Drainage area.--16.9 sq mi.  
 Period of measurements.--1960-61.  
 Index station.--No satisfactory correlation with an index station.  
 Discharge measurements made.--

Discharge		Discharge	
Date	(cfs)	Date	(cfs)
4- 8-60	4.50	4-24-61	2.82
7- 5-60	1.18	8-28-61	1.77

258. Cypress Creek near Bivens, La. (08-0288.00)

Location.--Lat 30°40'00", long 93°35'10", at bridge on State Highway 389, and 2.25 miles north of Bivens.  
 Drainage area.--15.4 sq mi.  
 Period of measurements.--1956-61.  
 Index station.--Correlated with station 08-0164.00.  
 Number of discharge measurements.--15.



PARTIAL-RECORD STATIONS

259. Brushy Creek at Bancroft, La. (08-0297.00)

Location.--Lat 30° 33' 35", long 23° 40' 49", at bridge on State Highway 389, and about 0.8 mile south of Bancroft.

Drainage area.--25.9 sq mi.

Period of measurements.--1954-61.

Index station.--Correlated with station 08-0164.00.

Number of discharge measurements.--12.

Table 2.--Summary data on duration of daily flow in Louisiana streams, 1929-58

Mpp no.	Station name	Computed mean 1929-58 cfs.	Variability index	Discharge of indicated percent time duration (cubic feet per second)																
				99.5	99	98	95	90	80	70	60	50	40	30	20	10	5	2	1	0.5
3	Pont River near Bogalusa, La.	5,900	.48	1,200	1,240	1,290	1,430	1,630	2,020	2,510	3,250	4,360	6,100	8,930	14,200	21,100	30,700	38,900	43,400	46,800
4	Bogue Lusa Creek near Franklinton, La.	139	.41	1.6	1.8	2.0	2.3	2.9	3.9	5.1	6.5	8.2	10.4	14	19	32	55	710	182	289
7	Bogue Chittoe at Franklinton, La.	1,580	.29	415	429	450	485	535	605	685	790	910	1,080	1,360	1,840	2,480	3,450	4,670	10,600	15,000
9	Bogue Chittoe near Boss, La.	1,900	.29	479	497	518	562	621	723	833	959	1,120	1,340	1,680	2,240	3,040	4,160	5,360	8,900	12,500
15	Neely Bayou near Bogalusa, La.	112	.31	1.3	1.9	2.2	2.7	3.4	4.4	5.8	7.3	9.2	11.6	14.4	18.0	22.4	27.1	32.1	37.1	42.1
16	Black Bayou near Gilliam, La.	402	.97	3.6	4.0	4.4	5.2	6.5	8.1	10.0	12.0	14.4	17.2	20.4	24.0	28.0	32.0	36.0	40.0	44.0
17	Twelvemile Bayou near Dixie, La.	2,990	1.23	6.0	6.6	7.2	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0
24	Bayou Dorchant near Minders, La.	1,220	1.31	4.1	4.5	4.9	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	12.0	12.6	13.2
27	Bodou Bayou near Sorrepta, La.	695	1.41	2.1	2.3	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.7
29	Bodou Bayou near Shreveport, La.	1,670	1.57	5.1	5.5	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4	11.9	12.4	12.9
32	Loggy Bayou near Minors, La.	2,970	1.11	1.6	1.8	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7
34	Boggy Bayou near Keithville, La.	77	1.49	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3
35	Cypress Bayou near Keithville, La.	77	1.76	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
36	Cypress Bayou near Shreveport, La.	260	1.79	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
62	Saline Bayou near Jacky, La.	179	.63	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
49	Black Lake Bayou near Clarence, La.	536	1.33	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
54	Saline Bayou near Clarence, La.	1,900	1.01	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
55	Natchatchie Creek near Montgomery, La.	59	1.26	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
57	Little Sandy Creek at Kistatchie, La.	35	1.20	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
61	Horseshoe Creek near Provencal, La.	6.3	1.26	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
63	Hemphill Creek near Hot Wells, La.	38	.56	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
70	Bayou Bartholomew near Bodou, La.	1,990	1.74	5.6	6.2	6.7	7.4	8.1	8.8	9.5	10.2	10.9	11.6	12.3	13.0	13.7	14.4	15.1	15.8	16.5
75	Bayou D'Arbonne near Dubach, La.	465	1.36	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
78	Siddle Fork Bayou D'Arbonne near Bortrice, La.	235	1.73	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
80	Cornet Bayou near Little, La.	497	1.06	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
88	Beuf River near Girard, La.	593	.60	3.9	4.2	4.7	5.6	6.6	7.6	8.6	9.6	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6
89	Big Colesia Bayou near Oak Grove, La.	72	1.18	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
94	Bayou Lafourche near Crow Lake, La.	1,410	1.18	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
98	Tensas River at Tensas, La.	34	.84	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6
101	Bayou Macon near Belita, La.	1,046	.81	5.6	6.2	6.9	7.6	8.3	9.0	9.7	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.3	16.0	16.7
104	Castor Creek near Grayson, La.	279	1.36	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
112	Garret Creek at Jonesboro, La.	451	.99	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
114	Bogdena River near Jonesboro, La.	1,100	1.11	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
116	Bogdena River near Winfield, La.	825	1.11	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
120	Bayou Fanny near Trout, La.	136	1.17	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
122	Big Creek at Pollock, La.	65	.34	3.8	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.4	8.8	9.2	9.6	10.0
129	West Fork Thompson Creek near Wakefield, La.	42	.42	3.8	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.4	8.8	9.2	9.6	10.0
133	Tchoufoueta River near Palou, La.	159	.33	3.6	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8
140	Tangouahou River at Robert, La.	140	.29	2.9	3.1	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0
146	Tiebow River at Holders, La.	357	.59	2.8	3.1	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0
148	Natchitoches River at Baptist, La.	111	.66	2.8	3.1	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0
150	Anile River near Baylinton, La.	936	.30	2.8	3.1	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0
156	Comite River near Olive Branch, La.	228	.33	3.6	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8
160	Comite River near Comite, La.	402	.48	3.9	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2
161	Anile River near Dabham Springs, La.	1,930	.59	2.9	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.4	8.8	9.2
165	Wards Creek at Stegen Lane near Baton Rouge, La.	52	.71	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2
172	Bayou Cocodrie near Cloutier, La.	420	.45	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2
182	Bayou Carriere near Sunset, La.	57	1.45	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2
184	Bayou Bourbeau near Shuteston, La.	21	1.37	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2
186	Bayou des Cannes near Enlice, La.	255	1.04	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
189	Long Point Gully near Crowley, La.	51	1.13	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
190	Bayou Plaquemine Brule near Crowley, La.	695	.80	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
196	Bayou Neapogue near Basile, La.	802	1.10	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
200	Calcasieu River near Glenmora, La.	766	.78	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1
202	Calcasieu River near Oberlin, La.	143	.75	3.6	3.9	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8
208	Tensas Creek near Elizabeth, La.	359	.40	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
209	Shisley Chittoe Creek near Oberlin, La.	402	.42	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.0	8.4	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6
212	Bandick Creek near Dry Creek, La.	53	.52	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6
214	Calcasieu River near Kinder, La.	2,750	.52	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	

Table 3.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183 consecutive days, based on records April 1, 1929 to March 31, 1957.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second, and recurrence interval in years											
			1.05	1.2	1.5	2	5	10	20	30				
3	Pearl River near Bogalusa, La.	7	2,140	1,800	1,600	1,460	1,260	1,180	1,110	1,080				
		15	2,280	1,900	1,670	1,520	1,300	1,220	1,150	1,120				
		30	2,500	2,050	1,770	1,590	1,340	1,250	1,180	1,150				
		60	3,080	2,430	2,050	1,790	1,460	1,340	1,250	1,200				
		120	4,300	3,200	2,600	2,250	1,720	1,520	1,400	1,340				
4	Bogue Lusa Creek near Franklinton, La.	183	6,280	4,440	3,360	2,750	2,090	1,840	1,670	1,580				
		7	4.7	3.4	2.8	2.4	1.8	1.5	1.4	1.4				
		15	5.2	3.8	3.0	2.6	1.9	1.7	1.4	1.4				
		30	6.5	4.7	3.7	3.1	2.3	2.0	1.7	1.7				
		60	9.0	6.4	5.0	4.2	3.0	2.5	2.2	2.2				
7	Bogue Chitto at Franklinton, La.	120	13	9.5	7.7	6.6	4.8	4.1	3.5	3.5				
		183	18	13	10	8.4	6.2	5.3	4.6	4.6				
		7	680	605	550	510	445	418	393	380				
		15	720	638	570	530	460	430	405	390				
		30	780	676	600	555	478	445	419	405				
9	Bogue Chitto near Bush, La.	60	890	755	660	600	506	470	440	425				
		120	1,050	880	770	700	580	540	500	480				
		183	1,300	1,070	920	820	670	620	578	550				
		7	800	691	620	578	500	468	441	430				
		15	840	721	645	597	519	486	455	440				
15	Kelly Bayou near Hosston, La.	30	900	764	680	621	538	499	470	450				
		60	1,040	867	760	684	575	532	496	480				
		120	1,240	1,020	880	795	667	612	567	540				
		183	1,560	1,230	1,050	928	762	703	652	620				
		7	6.9	4.6	3.3	2.7	2.0	1.8	1.6	1.6				
16	Black Bayou near Gilliam, La.	15	8.0	5.2	3.8	3.0	2.2	2.0	1.8	1.8				
		30	9.9	6.3	4.5	3.5	2.5	2.2	2.0	2.0				
		60	15	9.2	6.4	4.8	3.1	2.8	2.5	2.5				
		120	29	17	11	7.8	4.6	3.9	3.4	3.4				
		183	64	34	21	14	7.3	5.6	4.8	4.8				
17	Twelvemile Bayou near Dixie, La.	7	21	12	7.7	5.8	3.7	3.2	2.9	2.6				
		15	27	14	9.1	6.6	4.2	3.6	3.2	3.0				
		30	36	18	11	8.1	4.9	4.2	3.7	3.4				
		60	60	29	16	11	5.9	4.8	4.2	3.9				
		120	123	54	28	17	7.8	5.9	4.9	4.5				
183	Twelvemile Bayou near Dixie, La.	248	112	59	34	12	8.4	6.4	5.6					
		7	51	25	15	11	6.6	5.5	4.6	4.2				
		15	76	32	18	13	7.4	6.2	5.2	4.7				
		30	150	52	26	16	8.5	6.8	5.7	5.2				
		60	400	129	53	26	11	7.9	6.6	6.0				
183	Twelvemile Bayou near Dixie, La.	1,020	345	135	62	17	11	8.8	7.9					
		2,250	900	405	201	44	22	14	12	12				

Table 3.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183 consecutive days, based on records April 1, 1929 to March 31, 1957--Continued.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second, and recurrence interval in years									
			1.05	1.2	1.5	2	5	10	20	30		
24	Bayou Dorcheat near Minden, La.	7	30	8.8	2.8	1.1	0.2	0.1	0	0	0	
		15	37	11	3.4	1.3	.2	.1	0	0		
		30	50	15	4.8	1.9	.3	.1	0	0		
		60	105	32	10	4.0	.5	.2	.1	0		
		120	312	104	37	15	2.1	.7	.3	.2		
27	Bodcau Bayou near Sarepta, La.	183	640	275	125	61	12	4.6	2.1	1.4		
		7	5.4	1.8	.7	.4	.2	.1	.1			
		15	7.9	2.5	1.0	.5	.2	.2	.1			
		30	14	4.4	1.6	.8	.3	.2	.1			
		60	42	13	4.6	2.0	.6	.4	.3			
29	Bodcau Bayou near Shreveport, La.	120	162	52	18	6.9	1.6	1.0	.8	.6		
		183	430	172	75	36	6.3	3.1	2.0	1.6		
		7	17	4.0	1.0	.2	0	0	0			
		15	24	5.7	1.4	.3	0	0	0			
		30	35	8.4	2.2	.6	0	0	0			
32	Loggy Bayou near Ninoock, La.	60	72	20	5.5	1.6	0	0	0	0		
		120	191	64	23	8.8	.7	.1	0	0		
		183	398	178	84	42	6.9	2.0	1.4	0		
		7	110	58	32	18	5.2	2.5	1.6	0		
		15	137	70	38	22	6.1	2.9	2.0	0		
34	Boggy Bayou near Keithville, La.	30	202	99	52	29	7.8	3.6	2.8	0		
		60	396	173	84	44	11	5.1	2.8	0		
		120	910	400	192	100	23	11	6.0	0		
		183	2,090	950	480	263	71	38	24	0		
		7	5	.1	0	0	0	0	0	0		
35	Cypress Bayou near Keithville, La.	15	.7	.1	0	0	0	0	0	0		
		30	1.3	.4	.1	0	0	0	0	0		
		60	2.8	.8	.2	.1	0	0	0	0		
		120	11	3.1	1.0	.3	0	0	0	0		
		183	28	10	4.0	1.7	.3	.1	.1	0		
36	Cypress Bayou near Shreveport, La.	7	.3	.1	0	0	0	0	0	0		
		15	.5	.1	0	0	0	0	0	0		
		30	1.1	.2	0	0	0	0	0	0		
		60	4.2	.8	.2	0	0	0	0	0		
		120	17	3.3	.7	.2	0	0	0	0		
183		42	42	14	4.9	1.9	.2	0	0	0		
		7	2.0	.2	0	0	0	0	0	0		
		15	3.5	.4	0	0	0	0	0	0		
		30	6.1	.8	.1	0	0	0	0	0		
		60	19	3.3	.5	.1	0	0	0	0		
120		71	71	20	4.4	.8	0	0	0	0		
		183	172	68	24	8.3	.3	0	0	0		

Table 3.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183 consecutive days, based on records April 1, 1929 to March 31, 1957--Continued.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second, and recurrence interval in years									
			1.05	1.2	1.5	2	5	10	20	30		
42	Saline Bayou near Lucky, La.	7	25	18	14	11	6.8	5.4	4.3	3.8		
		15	27	20	15	12	7.2	5.8	4.6	4.0		
		30	30	21	16	13	7.9	6.2	5.0	4.4		
		60	38	27	20	16	9.3	7.1	5.7	5.0		
		120	73	44	29	22	13	9.7	7.8	6.8		
		183	119	68	45	33	20	16	13	11		
49	Black Lake Bayou near Castor, La.	7	44	27	19	15	8.8	6.8	5.4	4.8		
		15	49	30	21	16	9.6	7.3	5.8	5.1		
		30	56	34	23	18	10	8.0	6.4	5.6		
		60	81	48	31	22	12	9.3	7.2	6.3		
		120	180	98	59	39	18	13	10	8.8		
		183	350	184	109	70	31	22	17	15		
54	Saline Bayou near Clarence, La.	7	105	40	16	6.8	.8	.2	-----			
		15	160	60	24	10	1.3	.3	-----			
		30	242	90	36	16	1.9	.5	-----			
		60	400	162	70	32	4.5	1.2	-----			
		120	760	360	180	95	19	6.6	-----			
		183	1,290	730	435	270	79	37	-----			
55	Natchie Creek near Montgomery, La.	7	1.3	.5	0.2	0.1	0	0	0	0		
		15	1.8	.7	.3	.1	0	0	0	0		
		30	2.9	1.2	.5	.2	0	0	0	0		
		60	5.1	2.2	1.0	.5	.1	0	0	0		
		120	17	7.5	3.5	1.7	.3	.1	0	0		
		183	33	15	7.0	3.5	.6	.2	.1	0		
57	Little Sandy Creek at Kisatchie, La.	7	3.0	1.9	1.4	1.1	.7	.6	-----			
		15	3.5	2.1	1.5	1.2	.8	.6	-----			
		30	4.0	2.4	1.7	1.3	.9	.7	-----			
		60	6.8	3.7	2.4	1.8	1.0	.8	-----			
		120	14	6.8	4.3	3.1	1.8	1.4	-----			
		183	31	15	9.1	6.5	3.6	2.8	-----			
61	Horsepen Creek near Provencal, La.	7	.5	.4	.3	.2	.2	.1	-----			
		15	.6	.4	.3	.3	.2	.2	-----			
		30	.7	.4	.3	.3	.2	.2	-----			
		60	1.1	.6	.4	.3	.2	.2	-----			
		120	2.0	1.1	.7	.5	.3	.3	-----			
		183	4.2	2.1	1.3	.9	.5	.4	-----			
63	Hemphill Creek near Hot Wells, La.	7	10	8.8	7.8	7.2	6.4	5.8	5.4			
		15	11	9.1	8.0	7.4	6.4	6.0	5.6			
		30	11	9.5	8.4	7.6	6.6	6.2	5.8			
		60	13	11	9.4	8.4	7.0	6.4	6.0			
		120	16	13	11	9.9	7.8	7.2	6.6			
		183	21	16	14	12	9.9	8.8	7.8			

Table 3.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183, consecutive days, based on records April 1, 1929 to March 31, 1957--Continued.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second, and recurrence interval in years									
			1.05	1.2	1.5	2	5	10	20	30		
70	Bayou Bartholomeu near Beekman, La.	7	220	160	124	103	70	57	49			
		15	247	174	133	110	75	62	52			
		30	297	200	149	121	80	66	55	50		
		60	415	260	184	144	90	71	60	54		
		120	790	450	288	211	123	96	80	70		
75	Bayou D'Arbonne near Dubach, La.	183	1,400	770	480	330	179	143	116	103		
		7	17	4.7	0.9	0.1	0	0	0	0		
		15	21	6.3	1.3	.2	0	0	0	0		
		30	27	8.7	2.3	.5	0	0	0	0		
		60	52	18	6.7	2.5	.2	0	0	0		
78	Middle Fork Bayou D'Arbonne near Bernice, La.	120	128	50	21	9.9	1.5	.5	.2	.1		
		183	261	125	63	34	7.3	2.8	1.2	.7		
		7	4.6	1.1	0.2	0	0	0	0	0		
		15	6.3	1.5	.3	0	0	0	0	0		
		30	8.3	2.0	.5	.1	0	0	0	0		
80	Corney Bayou near Lillie, La.	60	18	5.4	1.6	.5	0	0	0	0		
		120	56	20	7.3	3.0	.3	.1	0	0		
		183	126	54	24	12	1.8	.6	.2	.1		
		7	18	7.6	3.2	1.4	.1	0	0	0		
		15	25	11	4.7	2.2	.2	0	0	0		
88	Boeuf River near Girard, La.	30	33	14	6.8	3.3	.5	.1	0	0		
		60	53	25	12	6.4	1.2	.3	.1	0		
		120	104	51	26	14	3.0	1.1	.4	.2		
		183	190	100	56	33	10	5.0	2.7	1.7		
		7	113	87	71	60	44	38	35	33		
89	Big Colewa Bayou near Oak Grove, La.	15	124	94	76	64	46	40	36	34		
		30	156	112	86	69	48	42	37	35		
		60	210	139	100	78	53	44	40	37		
		120	362	216	144	105	64	52	44	41		
		183	560	320	209	148	87	68	57	52		
94	Bayou Lafourche near Crew Lake, La.	7	0.5	0.1	0	0	0	0	0	0		
		15	.8	.1	0	0	0	0	0	0		
		30	1.9	.4	.1	0	0	0	0	0		
		60	4.5	1.3	.3	.1	0	0	0	0		
		120	12	4.6	1.7	.6	0	0	0	0		
94	Bayou Lafourche near Crew Lake, La.	183	38	19	10	5.3	1.0	.3	-----	-----	-----	-----
		7	30	14	7.7	4.7	1.9	1.2	-----	-----	-----	-----
		15	41	18	9.4	5.7	2.2	1.4	-----	-----	-----	-----
		30	70	27	13	7.1	2.6	1.6	-----	-----	-----	-----
		60	134	46	20	10	3.2	2.0	-----	-----	-----	-----
94	Bayou Lafourche near Crew Lake, La.	120	326	120	52	25	6.0	3.1	-----	-----	-----	-----
		183	700	275	124	62	14	7.0	-----	-----	-----	-----

Table 3.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183 consecutive days, based on records April 1, 1929 to March 31, 1957--Continued.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second, and recurrence interval in years									
			1.05	1.2	1.5	2	5	10	20	30		
98	Tensas River at Tardal, La.	7	24	15	11	8.2	5.0	3.9	3.3	3.0		
		15	28	18	9.2	5.4	4.2	3.5	3.2			
		30	39	23	11	6.0	4.5	3.7	3.4			
		60	67	33	13	6.7	5.0	4.1	3.7			
		120	158	68	35	9.4	6.6	5.0	4.3			
		183	290	129	67	40	11	7.6	6.5			
101	Bayou Macon near Delhi, La.	7	204	152	120	98	65	54	48	44		
		15	227	168	130	107	70	50	46			
		30	280	194	147	117	75	53	49			
		60	369	243	174	136	84	66	52			
		120	600	372	251	188	108	82	60			
		183	930	535	357	263	151	116	82			
104	Castor Creek near Grayson, La.	7	7.2	2.7	0.7	0.1	0	0	0	0		
		15	8.6	3.4	1.0	.1	0	0	0	0		
		30	10	4.3	1.4	.2	0	0	0	0		
		60	20	9.3	4.0	1.4	0	0	0	0		
		120	51	23	10	4.1	.1	0	0	0		
		183	111	60	32	18	3.8	.2	.2	.2		
112	Garrett Creek at Jonesboro, La.	7	0.5	0.3	.2	.2	0	0	0	0		
		15	.5	.4	.3	.2	.1	0	0	0		
		30	.6	.4	.3	.2	.1	.1	.1	.1		
		60	.8	.6	.4	.3	.2	.1	.1	.1		
		120	2.0	1.1	.7	.5	.2	.1	.1	.1		
		183	8.2	3.6	2.0	1.2	.5	.4	.4	.4		
114	Dugdemona River near Jonesboro, La.	7	15	8.5	5.7	4.3	2.5	1.8	1.3	1.1		
		15	20	11	7.0	5.2	2.9	2.1	1.5	1.2		
		30	27	14	8.8	6.4	3.5	2.5	1.8	1.5		
		60	56	25	14	9.1	4.4	3.1	2.2	1.9		
		120	140	54	26	15	5.8	4.0	2.8	2.3		
		183	292	117	55	30	9.0	5.7	4.1	3.4		
116	Dugdemona River near Winnfield, La.	7	22	9.9	5.3	3.1	.8	.3	.1	0		
		15	30	13	7.0	4.0	1.1	.4	.1	.1		
		30	45	19	10	5.7	1.5	.6	.2	.1		
		60	111	39	18	10	3.0	1.4	.7	.5		
		120	299	99	38	18	5.3	2.7	1.5	1.1		
		183	580	235	103	48	11	5.3	3.0	2.2		
120	Bayou Funny Louis near Trout, La.	7	1.0	.5	.2	.1	0	0	0	0		
		15	1.8	.8	.4	.4	.1	.1	.1	.1		
		30	3.3	1.5	.8	.8	.4	.1	.1	.1		
		60	8.4	3.9	2.0	1.1	.3	.2	.2	.1		
		120	22	9.7	4.9	2.8	.8	.4	.4	.2		
		183	54	26	13	7.4	2.0	1.0	1.0	.5		

Table 3.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183 consecutive days, based on records April 1, 1929 to March 31, 1957--Continued.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second, and recurrence interval in years									
			1.05	1.2	1.5	2	5	10	20	30		
122	Big Creek at Pollock, La.	7	22	19	16	14	9.6	7.6	6.1	6.1	5.4	
		15	24	20	17	15	10	8.2	8.2	6.5	5.7	
		30	27	19	16	11	11	8.7	7.0	7.0	6.1	
		60	31	26	18	13	13	9.9	7.8	7.8	6.8	
		120	38	31	26	21	14	11	8.5	7.4	7.4	
129	West Fork Thompson Creek near Wakefield, La.	183	48	38	31	26	17	13	10	8.9		
		7	7.6	6.1	5.1	4.4	3.5	3.1	-----	-----		
		15	8.2	6.7	5.5	4.7	3.7	3.3	-----	-----		
		30	9.1	7.2	6.0	5.1	3.9	3.5	-----	-----		
		60	11	8.8	7.2	6.2	4.4	3.8	-----	-----		
133	Tchefuncta River near Folsom, La.	120	15	12	10	8.6	6.3	5.3	-----	-----		
		183	24	17	13	11	8.2	7.1	-----	-----		
		7	54	48	44	41	36	34	32	31		
		15	57	50	45	42	37	35	33	32		
		30	60	52	47	44	38	36	34	33		
140	Tangipahoa River at Robert, La.	60	74	62	54	49	41	39	36	35		
		120	95	76	64	58	48	44	41	40		
		183	131	98	80	70	56	50	47	45		
		7	450	402	367	340	302	283	270	260		
		15	475	415	380	352	310	292	278	269		
146	Tickfaw River at Holden, La.	30	503	440	392	363	320	302	286	278		
		60	597	500	440	400	345	320	300	290		
		120	730	600	521	475	400	370	343	330		
		183	908	740	624	555	460	425	392	379		
		7	121	109	101	94	84	80	76	74		
148	Natalbany River at Baptist, La.	15	128	114	105	98	86	82	78	75		
		30	137	120	109	102	88	84	80	78		
		60	159	136	120	111	94	88	84	81		
		120	205	168	146	131	110	102	96	92		
		183	294	225	187	162	129	117	109	105		
150	Amite River near Darlington, La.	7	6.8	5.4	4.6	4.0	3.2	2.9	2.7	2.5		
		15	7.6	6.0	4.9	4.3	3.4	3.1	2.8	2.6		
		30	9.8	7.1	5.6	4.7	3.6	3.2	3.0	2.8		
		60	19	13	9.4	7.4	5.0	4.2	3.6	3.3		
		120	43	29	21	16	10	8.6	7.0	6.3		
183		183	66	43	31	24	14	12	10	8.8		
		7	320	285	260	242	218	208	-----	-----		
		15	345	300	270	250	225	214	-----	-----		
		30	367	312	280	260	232	220	-----	-----		
		60	420	352	310	285	242	229	-----	-----		
183		120	519	445	389	352	290	265	-----	-----		
		183	722	565	478	420	341	311	-----	-----		



Table 3.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183 consecutive days, based on records April 1, 1929 to March 31, 1957--Continued.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second, and recurrence interval in years											
			1.05	1.2	1.5	2	5	10	20	30				
156	Comite River near Olive Branch, La.	7	64	54	49	45	39	37	35	33				
		15	68	58	51	47	40	38	36	34				
		30	74	61	53	48	42	39	37	36				
		60	92	72	62	54	44	41	38	37				
		120	127	97	80	70	54	49	45	43				
		183	183	133	108	92	68	60	53	50				
160	Comite River near Comite, La.	7	82	68	59	53	44	41	38					
		15	92	74	63	56	47	42	40					
		30	103	81	68	60	49	45	42					
		60	140	102	80	68	53	48	44					
		120	226	159	120	97	70	60	53					
		183	351	249	185	145	92	78	68					
161	Amite River near Denham Springs, La.	7	548	465	413	378	325	302	282	272				
		15	590	495	436	395	335	312	292	282				
		30	640	525	460	415	350	325	305	293				
		60	775	620	523	470	378	345	320	309				
		120	1,070	835	700	610	478	425	378	370				
		183	1,560	1,150	920	780	590	520	465	436				
165	Wards Creek at Siegen Lane near Baton Rouge, La.	7	3.5	2.5	2.0	1.6	1.2	1.0						
		15	4.1	2.8	2.1	1.8	1.3	1.1						
		30	6.4	4.2	3.1	2.6	1.8	1.6						
		60	12	7.6	5.5	4.3	2.8	2.3						
		120	22	14	9.7	7.5	4.5	3.4						
		183	44	27	19	15	8.7	6.6						
172	Bayou Cocodrie near Clearwater, La.	7	130	103	86	76	65	59	54	52				
		15	140	108	90	79	66	60	56	53				
		30	151	116	96	84	69	63	58	55				
		60	194	142	114	98	74	66	62	58				
		120	288	200	149	120	86	76	70	66				
		183	420	290	214	171	125	94	82	76				
182	Bayou Carencro near Sunset, La.	7	0	0	0	0	0	0	0	0				
		15	.1	0	0	0	0	0	0	0				
		30	.6	.3	.1	.1	0	0	0	0				
		60	10	4.5	2.0	1.0	.2	0	0	0				
		120	30	16	9.3	5.8	2.2	1.4	.9	.7				
		183	61	34	21	15	6.8	4.5	3.1	2.5				
184	Bayou Bourbeau near Shuteston, La.	7	0	0	0	0	0	0	0	0				
		15	.2	0	0	0	0	0	0	0				
		30	.6	.3	.1	.1	0	0	0	0				
		60	3.4	2.0	1.2	.7	.2	.1	0	0				
		120	14	8.6	5.8	4.2	2.0	1.3	.9	.7				
		183	32	19	13	9.4	4.8	3.2	2.3	1.8				

Table 3.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183 consecutive days, based on records April 1, 1929 to March 31, 1957.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second, and recurrence interval in years											
			1.05	1.2	1.5	2	5	10	20	30				
186	Bayou des Cannes near Eunice, La.	7	1.8	1.1	0.7	0.4	0.1	0	0	0	0	0	0	
		15	4.6	3.0	1.9	1.2	.4	.1	0	0	0	0	0	
		30	12	7.5	5.1	3.4	1.1	.4	.2	.1	.1	.1	.1	
		60	64	42	27	18	5.4	2.5	1.2	.8	.8	.8	.8	
		120	160	106	72	52	26	19	15	13	13	13	13	
		183	322	193	128	92	52	40	32	28	28	28	28	
189	Long Point Gully near Crowley, La.	7	.3	.2	.1	.1	0	0	0	0	0	0	0	
		15	.9	.5	.3	.2	0	0	0	0	0	0	0	
		30	2.0	1.1	.6	.4	.1	0	0	0	0	0	0	
		60	16	8.3	4.6	2.6	.7	.3	.3	.3	.3	.3	.3	
		120	37	22	14	10	5.0	3.4	2.4	1.8	1.4	1.1	.8	
		183	60	37	26	19	11	7.7	5.0	3.4	2.4	1.8	1.4	
190	Bayou Plaquemine Brule near Crowley, La.	7	15	7.6	4.0	2.2	.4	.1	.1	.1	.1	.1	.1	
		15	37	20	12	6.8	1.7	.6	.6	.6	.6	.6	.6	
		30	75	52	37	27	12	7.0	4.2	3.0	2.2	1.6	1.1	
		60	184	131	95	71	34	21	15	11	8	6	4	
		120	357	252	189	149	93	78	58	42	30	22	16	
		183	570	405	303	238	151	128	92	66	48	35	25	
196	Bayou Nezpique near Basile, La.	7	7.0	3.6	2.1	1.2	.3	.1	.1	.1	.1	.1	.1	
		15	15	7.5	4.2	2.5	.7	.3	.3	.3	.3	.3	.3	
		30	40	20	11	6.1	1.6	.7	.7	.7	.7	.7	.7	
		60	213	112	61	35	9.2	4.2	3.0	2.2	1.6	1.1	.8	
		120	430	223	133	87	42	30	24	18	13	9	6	
		183	980	500	280	180	84	59	45	33	24	18	13	
200	Calcasieu River near Glemora, La.	7	59	41	32	26	20	18	16	14	14	14	14	
		15	66	44	34	28	21	18	16	15	15	15	15	
		30	77	51	38	31	23	19	17	16	16	16	16	
		60	132	76	51	39	26	22	19	17	17	17	17	
		120	290	138	82	56	32	26	22	20	20	20	20	
		183	640	278	151	100	49	36	30	27	27	27	27	
202	Calcasieu River near Oberlin, La.	7	118	80	61	52	42	37	33	31	31	31	31	
		15	126	84	64	54	43	38	34	32	32	32	32	
		30	144	94	70	58	45	40	35	33	33	33	33	
		60	233	136	94	74	50	43	38	36	36	36	36	
		120	490	225	136	100	61	51	46	43	43	43	43	
		183	940	423	253	176	94	72	58	52	52	52	52	
208	Tennile Creek near Elizabeth, La.	7	24	19	16	15	12	10	10	10	10	10	10	
		15	25	20	17	15	12	11	11	11	11	11	11	
		30	26	21	18	16	13	11	11	11	11	11	11	
		60	34	25	20	18	14	12	12	12	12	12	12	
		120	56	35	26	22	17	15	15	15	15	15	15	
		183	105	58	39	30	21	18	18	18	18	18	18	

Table 3.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183 consecutive days, based on records April 1, 1929 to March 31, 1957--Continued.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second, and recurrence interval in years										
			1.05	1.2	1.5	2	5	10	20	30			
209	Whiskey Chitto Creek near Oberlin, La.	7	241	195	165	147	123	110	100	94			
		15	250	200	170	150	126	113	102	96			
		30	267	210	176	157	132	118	107	100			
		60	341	260	212	184	143	127	114	107			
		120	500	339	260	218	165	149	132	124			
		183	672	439	325	265	190	168	149	140			
212	Bundick Creek near Dry Creek, La.	7	99	84	74	70	62	59	56	54			
		15	103	86	77	71	63	60	56	55			
		30	109	90	80	73	64	61	58	56			
		60	135	106	90	81	68	64	60	58			
		120	207	142	110	92	74	70	65	63			
		183	353	218	156	124	90	80	72	69			
214	Calcasieu River near Kinder, La.	7	572	430	358	320	256	223	195	180			
		15	618	459	377	332	267	230	202	187			
		30	661	490	402	353	280	243	212	197			
		60	940	650	503	415	302	259	228	213			
		120	1,490	920	662	525	360	303	268	251			
		183	2,490	1,450	1,000	765	485	395	338	312			
220	Beckwith Creek near De Quincy, La.	7	10	5.1	3.0	2.1	1.1	0.7	0.5				
		15	13	6.4	3.8	2.6	1.3	0.9	.6				
		30	17	8.4	4.9	3.3	1.5	1.0	.7				
		60	31	14	7.8	4.9	2.1	1.3	.9				
		120	78	32	15	8.8	3.2	2.0	1.4				
		183	210	86	40	22	6.5	3.8	2.5				
227	Sabine River at Logansport, La.	7	317	183	113	74	32	22	17	15			
		15	367	209	128	84	35	24	18	16			
		30	518	278	162	103	39	26	20	18			
		60	847	424	234	140	49	31	23	20			
		120	1,750	798	408	233	75	46	35	30			
		183	3,300	1,650	902	551	207	136	94	76			
235	Bayou San Patricio near Noble, La.	7	3.0	1.0	.3	.1	0	0					
		15	4.0	1.3	.4	.1	0	0					
		30	6.4	2.2	.8	.2	0	0					
		60	12	4.2	1.5	.6	0	0					
		120	39	14	4.9	1.9	.2	0					
		183	112	48	22	10	1.6	.5					
237	Bayou San Miguel near Zwolle, La.	7	1.2	.2	0	0	0	0	0	0			
		15	1.9	.4	.1	0	0	0	0	0			
		30	3.3	.8	.2	0	0	0	0	0			
		60	6.3	1.8	.4	.1	0	0	0	0			
		120	25	7.8	2.4	.7	0	0	0	0			
		183	77	28	11	4.2	.2	0	0	0			

Table 3.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183 consecutive days, based on records April 1, 1929 to March 31, 1957--Continued.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second, and recurrence interval in years										
			1.05	1.2	1.5	2	5	10	20	30			
242	Sabine River near Milan, Tex.	7	435	246	153	108	51	36	28	25			
		15	515	290	178	120	55	39	30	27			
		30	705	380	226	145	62	43	33	29			
		60	1,150	570	318	195	75	50	38	33			
		120	2,330	1,070	545	319	110	71	54	48			
		183	4,580	2,300	1,260	770	282	183	131	111			
252	Bayou Anacoco near Leesville, La.	7	22	15	11	9.3	6.6	5.6	4.7				
		15	24	16	12	10	7.0	5.8	4.9				
		30	27	18	13	11	7.5	6.2	5.2				
		60	43	26	18	14	8.8	7.2	6.0				
		120	84	44	28	20	12	9.1	7.6				
		183	167	82	49	34	18	14	10				
253	Bayou Anacoco near Rosepine, La.	7	74	49	36	28	17	13					
		15	83	54	39	30	18	14					
		30	93	61	44	34	20	15					
		60	147	92	64	48	26	18					
		120	272	148	96	70	38	27					
		183	570	273	168	118	62	44					
256	Sabine River near Bon Wier, Tex.	7	980	700	528	413	245	192	163	152			
		15	1,080	760	566	440	259	202	171	158			
		30	1,330	900	646	493	278	214	179	166			
		60	1,880	1,180	800	580	315	238	197	181			
		120	3,380	1,880	1,170	810	422	312	252	231			
		183	6,500	3,570	2,200	1,500	770	570	450	400			
260	Sabine River near Ruliff, Tex.	7	1,660	1,130	826	632	408	343	291	266			
		15	1,770	1,200	870	663	425	357	302	277			
		30	2,040	1,380	970	731	454	381	323	294			
		60	2,950	1,840	1,230	862	487	407	343	313			
		120	5,180	2,960	1,850	1,290	699	548	438	388			
		183	8,800	5,070	3,200	2,230	1,160	904	726	640			

Table 4.--Magnitude and frequency of annual low flow on streams in Louisiana for periods of 7, 15, 30, 60, 120, and 183 consecutive days, based on records April 1, 1929 to March 31, 1957.

Map number	Station name	Consecutive days	Lowest flow, in cubic feet per second per square mile, and recurrence interval in years										
			1.05	1.2	1.5	2	5	10	20	30			
3	Pearl River near Bogalusa, La.	7	0.32	0.27	0.24	0.22	0.19	0.18	0.17	0.16			
		15	.34	.29	.25	.23	.20	.18	.17	.17			
		30	.38	.31	.27	.24	.20	.19	.18	.17			
		60	.46	.37	.31	.27	.22	.20	.19	.18			
		183	.65	.48	.39	.34	.26	.23	.21	.20			
4	Bogue Lusa Creek near Franklinton, La.	7	.39	.28	.23	.20	.15	.12	.12				
		15	.43	.31	.25	.21	.16	.14	.12				
		30	.54	.39	.31	.26	.19	.17	.14				
		60	.74	.53	.41	.35	.25	.21	.18				
		183	1.1	.79	.64	.55	.40	.34	.29				
7	Bogue Chitto at Franklinton, La.	7	.71	.63	.57	.53	.46	.44	.41	.40			
		15	.75	.67	.59	.55	.48	.45	.42	.41			
		30	.81	.71	.63	.58	.50	.46	.44	.42			
		60	.93	.79	.69	.63	.53	.49	.46	.44			
		183	1.4	1.1	.92	.80	.60	.56	.52	.50			
9	Bogue Chitto near Bush, La.	7	.66	.57	.51	.48	.41	.39	.36	.36			
		15	.69	.60	.53	.49	.43	.40	.38	.36			
		30	.74	.63	.56	.51	.44	.41	.39	.37			
		60	.86	.72	.63	.57	.48	.44	.41	.40			
		183	1.3	1.0	.87	.77	.63	.58	.54	.51			
15	Kelly Bayou near Hosston, La.	7	.06	.04	.03	.02	.02	.02	.01				
		15	.07	.04	.03	.03	.02	.02	.02				
		30	.08	.05	.04	.03	.02	.02	.02				
		60	.13	.08	.06	.04	.03	.02	.02				
		183	.25	.14	.10	.07	.04	.03	.03				
16	Black Bayou near Gilliam, La.	7	.06	.03	.02	.02	.01	.009	.008	.007			
		15	.07	.04	.02	.02	.01	.01	.009	.008			
		30	.10	.05	.03	.02	.01	.01	.01	.009			
		60	.18	.08	.04	.03	.02	.01	.01	.01			
		183	.34	.15	.08	.05	.02	.01	.01	.01			
17	Twelvemile Bayou near Dixie, La.	7	.02	.008	.005	.004	.002	.002	.001	.001			
		15	.03	.01	.006	.004	.002	.002	.002	.001			
		30	.05	.02	.008	.005	.003	.002	.002	.002			
		60	.13	.04	.02	.008	.004	.003	.002	.002			
		183	.33	.11	.04	.02	.005	.004	.002	.002			
			.29	.13	.01	.06	.007	.004	.004				