Floods of April-June 1953 In Louisiana and Adjacent States

FLOODS OF 1953

Prepared under the direction of J. V. B. WELLS, *Chief, Surface Water Branch*

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PREFACE

This report on the floods of April-June 1953 in Louisiana and adjacent States was prepared in the Water Resources Division, C. G. Paulsen, chief, under the general direction of J. V. B. Wells, chief, Surface Water Branch.

The data presented in this report was collected and compiled under the supervision of the district engineers, Surface Water Branch, as follows: Louisiana, F. N. Hansen; Mississippi, I. E. Anderson; and Texas, Trigg Twichell.

The report was assembled and the text prepared in the Baton Rouge, La., district office under the direction of M. F. Cook, assistant district engineer.

The collection of basic records of stage and discharge in the area covered by this report is a part of the continuous cooperative program with other Federal agencies, and with many State organizations. Records of discharge are collected by the U. S. Geological Survey in cooperation with the following agencies: The Louisiana Department of Public Works and the Louisiana Department of Highways; the Mississippi Geological Survey; in Texas, the Texas Board of Water Engineers, the Sabine River Authority, and the Lower Neches Valley Authority; the Corps of Engineers, U. S. Army; and the U. S. Weather Bureau.

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FLOODS OF APRIL-JUNE 1953 IN LOUISIANA AND ADJACENT STATES

ABSTRACT

The floods of April-June 1953 in Louisiana and adjacent States were caused by continued heavy rains, which began April 24 and culminated in an unusual 24-hour rain on May 18-19. There were two defined periods of heavy rainfall: April 24 to May 5 and May 11-15. Most streams reached higher peaks after the intense rain on May 18, although some reached their maximum during the first period. Twelve lives were lost due to causes directly connected with the floods, and direct losses were on the order of $35 million. The floods in southwestern Louisiana exceeded all previous records, and many acres of land thought to be out of the flood plain were inundated.

The high soil moisture content and streamflow resulting from rains in the first period set the stage for the record-breaking flood beginning on May 18. The major area of heavy rainfall and resulting flood was in the central part of Louisiana in the headwaters of streams flowing into the Gulf of Mexico. Large floods occurred in the Sabine and Neches River basins in eastern Texas. The main stem of the Mississippi River and Red River did not have an unusual rise. The flood in the Florida parishes in Louisiana was not unusual except in some local areas.

The magnitude of the crest of the flood in southwestern Louisiana is apparent from a flood-frequency study and the records of Whiskey Chitto Creek at Oberlin drainage area 510 square miles. In southwestern Louisiana the 25-year floods are twice the mean annual floods; at the Whiskey Chitto Creek gaging station the peak flow during the flood of 1953 was 11.5 times the mean annual flood. It is impossible to assign a recurrence interval to the flood of 1953 on Whiskey Chitto Creek, but a flood of that magnitude appears to be an exceedingly rare event.

Flood-control measures in Louisiana have been concerned principally with the main stem of the Mississippi River, its distributary the Atchafalaya, and the Red River. A few drainage improvements have been made, but these did not materially affect flood crests in the critical areas. There are no flood-control reservoirs in the area.

Federal, State, and other agencies joined with industrial organizations and individuals in concerted emergency flood-protection work at Deweyville and Orange, Tex., on the lower Sabine in an effort to minimize flood damages. The Corps of Engineers estimated that more than $5,500,000 in damages were prevented in Orange, Tex., by emergency construction of a temporary flood-protection levee.

INTRODUCTION

The area covered by this report on the floods of April-June 1953 is shown on figure 24. It extends from the Chefuncte River in

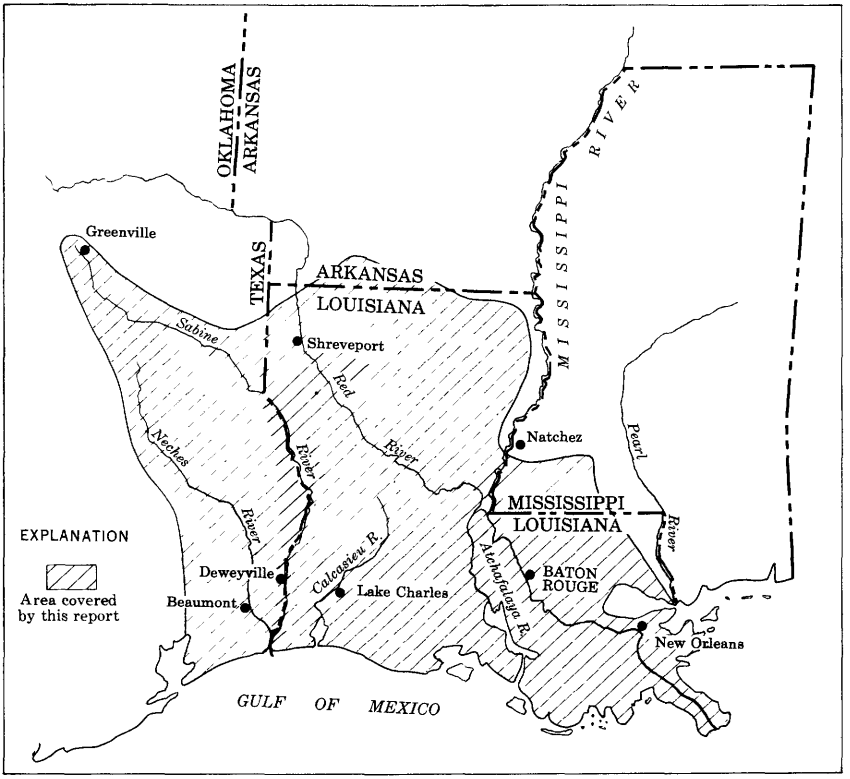

Figure 24.--Map of area covered by this report.

eastern Louisiana to the Neches River in Texas and from the Arkansas-Louisiana State line to the Gulf of Mexico. The main stem of the Mississippi River and its distributary, the Atchafalaya River, were not in flood; thus, records for the Mississippi River are not included in this report.

The floods were by far the greatest known in southwestern Louisiana from the West Atchafalaya floodway to the Sabine River. In the Florida parishes, maxima for the period of record since 1938 were approached or slightly exceeded. In northeastern Louisiana the flood was generally below maxima previously recorded

and was far below those associated with the disastrous flood on the Mississippi River in 1927. In the Sabine and Neches River basins flooding was severe, and new maxima for the period of record occurred in the lower Sabine at the Bon Weir and Ruliff gaging stations.

The Geological Survey maintains about 90 gaging stations within the area of this report, which are operated through its district offices in Baton Rouge, La., Jackson, Miss., and Austin, Tex. Most of these stations are maintained in cooperation with other Federal agencies and with the States. The Corps of Engineers operates many gages in Arkansas, Louisiana, and Mississippi and regularly publishes stages and discharges at some of those sites.

Composite flood-frequency curves for several areas, including the main streams in Louisiana, are contained in a flood-frequency report 1/ prepared cooperatively by the Geological Survey. Comparison of selected peak discharges for the floods of 1953 with discharges of various frequencies based on the Louisiana flood-frequency study indicates that some of the peaks during the floods of 1953 were very high.

The information given herein is supplementary to that contained in the annual series of reports on surface-water supply and contains more detail than is included in those reports. This report contains records of stage and discharge at 93 gaging stations, records of contents of 2 reservoirs, a list of discharge measurements made at 65 sites other than gaging stations, a list of flood-crest stages at 179 sites, and other related data.

ACKNOWLEDGMENTS

The general investigation of surface-water resources in the area covered by this report is made by the U. S. Geological Survey in cooperation with the Louisiana Department of Public Works and Department of Highways, the Texas Board of Water Engineers, the Sabine River Authority, the Lower Neches Valley Authority, the Corps of Engineers, and the Weather Bureau.

Acknowledgment is made to the Corps of Engineers for

1/ Cragwall, J. S., Jr., Floods in Louisiana, magnitude and frequency: State of Louisiana, Department of Highways, p. 241–259, 1952.

furnishing data on flood-crest elevations, miscellaneous measurements of flood flows, and some estimates of flood damage. The Weather Bureau furnished an isohyetal map, rainfall information, and flood-damage reports. The Louisiana Department of Highways furnished detailed information on damage to highways and bridges in the State.

GENERAL DESCRIPTION OF THE FLOODS

The floods of April-June 1953 were caused by unusually heavy rains beginning April 27. There were two defined periods of heavy rainfall occurring intermittently, April 27-May 5 and May 11-19. These storms produced rain ranging from 10 inches to more than 35 inches. The area of heaviest rainfall was in central Louisiana on a 60-mile line from Camp Polk to Pollock.

The storm of April 27-May 5 had two high spots of rain in southern Louisiana, 20 inches at Camp Polk in the west and 17 inches at North Livingston Tower in the Florida parishes. The storm of May 11-19 had several high spots from east Texas to the Mississippi River south of the 32-degree parallel, where more than 20 inches of rain was common in the area centering near Melville on the Atchafalaya River.

The rains stopped abruptly on May 19, and practically no rain fell during the remainder of the month. The first storm produced high stages on all streams in the area and set the stage for the more widespread disastrous floods that followed the second storm period. The high soil moisture contents that existed after the first storm period helped contribute to the high peak flows resulting from the rains of May 11-19. The culminating factor was the 24-hour rain on May 18 when amounts up to 13 inches were recorded.

In general, the flood in late April reached crest stages equal to or slightly higher than previous recorded maxima, and after May 5 it receded to a high base flow. The flood of late May was unusual in the southern half of the State, producing maxima of historic proportions in the southwestern area.

The area affected by the floods extended from the Chefuncte River in eastern Louisiana to the Neches River basin in east Texas and from the Arkansas-Louisiana State line to the Gulf of Mexico. The heaviest flooding took place in central Louisiana in an area extending from the West Atchafalaya floodway to the Sabine River.

General rains of 1 to 8 inches fell on April 24-25, followed by more intense storms on April 28-30 when amounts up to 12 inches

were recorded. A third storm on May 2-5 produced moderate rain of 3 inches over the general area with amounts exceeding 4 inches in the Florida parishes, North Livingston Tower reporting the heaviest fall, 16.22 inches. Further rains began between May 10 and 12 and continued through the 18th. Quantities during this 6-to 8-day period exceeded 6 inches over the whole area, and amounts of 24 inches were recorded. Over half of the rain fell on the last day of the period.

Streams in the entire area were in flood. The most remarkable flooding occurred in the Calcasieu River basin (figs. 25-A and 25-B), the Cocodrie-Courtableau Bayou system, and the lower Sabine River. The culvert on Big Darbonne Bayou near Krotz Springs diverts water eastward from the Courtableau Teche basin at high stages. Figure 26 shows the extreme stage reached when the culvert was submerged and flow overtopped the head works. Figure 27 is a view of the same site eight days later, after the flood had receded. All major highways across Louisiana south of U.S. Highway 80 were closed by flood waters, and many railroad lines were washed out. The city of Lake Charles, La., suffered the most damaging flood in its history, and 15,000 people were left homeless. Upstream on the Calcasieu River the smaller towns of Oakdale and Kinder were hard hit. Baton Rouge, Shreveport, and Opelousas in Louisiana suffered damages in areas adjacent to streams (fig. 28). In the lower Sabine River, Deweyville, Tex., was completely flooded (fig. 29); a successful flood fight at Orange saved inundation of the low areas of that city. It was fortunate that warm temperatures prevailed during the flood period; otherwise, suffering would have been more acute.

In the Florida parishes of Louisiana the flood crests about equalled or slightly exceeded previous maxima of 10 years of record. High stages on the Comite caused some backwater in the north Baton Rouge area. Amite River near Denham Springs, La., reached a stage of 32.46 feet, the highest during a period of record beginning in 1938, as compared with the previous maximum of 29.59 feet in March 1948. The flood of March 15, 1921, reached a stage of 35.4 feet.

In northeastern Louisiana, Boeuf River near Girard crested at a stage of 17.22 feet compared with 18.80 feet in 1947, the highest since record began in 1938. During the historic Mississippi River flood of 1927, Boeuf River reached a crest stage of 29.5 feet at this location.

In northwestern Louisiana, Boggy Bayou near Keithville recorded a maximum stage of 18.82 feet compared with 20.2 feet on January 5, 1946, the highest since record began in 1938. A floodmark of 26.7 feet was obtained from the flood of 1933, the maximum known.

A. On May 20, half a foot below the crest.

B. On May 22 after flood had receded. Note deposition of sand.

Figure 25.--Two views of tourist camp on right bank of Calcasieu River near Kinder, La. Birdhouse in right center indicates height of water.

Figure 26. --Big Darbonne Bayou at culvert near Krotz Springs, La., at crest of flood on May 25. Structure in foreground is west gage.

Figure 27. --Big Darbonne Bayou at culvert near Krotz Springs, La., after flood had receded.

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Figure 28.--U. S. 190 looking west between Port Barre and Opelousas, La. Photo taken on May 18, about 2 feet below crest of flood.

In the heavily flooded area of central Louisiana, a maximum stage of 26.72 feet was recorded by Bayou Cocodrie near Clearwater on May 18 the highest since record began in 1937, compared with a previous maximum of 21.50 feet in 1938. This represented an increase in discharge from 4,000 cfs to 28,200 cfs. In southwestern Louisiana, a maximum stage of 32.8 feet was recorded at Whiskey Chitto Creek near Oberlin; the previous maximum was 25.7 feet in June 1886, from floodmarks preserved by local residents.

Peak discharges at gaging stations on the Sabine River exceeded previous maxima, occurring during the periods of record, only at Bon Weir and Ruliff, Tex. Above Bon Weir, the peak discharges during the flood of March-April 1945 stand as the highest of record. At Bon Weir and Ruliff the peak discharges of 115,000 cfs on May 19 and 121,000 cfs on May 22, respectively, are the highest discharges occurring during the period of stream-gaging record at these stations. Higher stages at each station are known, but the corresponding discharges have not been determined.

The floods on the Neches River did not exceed the maxima experienced during periods of gaging-station operation except at relatively new stations. Maximum discharges on the Neches River during periods of gaging record occurred in 1944 and 1945. On some streams tributary to the Neches River, maximum discharges for the period of gaging-station record occurred in 1932 and 1940.

Figure 29. --Aerial view of northeastern Deweyville, Tex., flooded by Sabine River. Submerged and broken levee in lower left. Photo by Corps of Engineers on May 24 following crest of flood.

The peak discharge on the Neches River at Evadale, Tex., during the flood of April-June 1953 was 80,300 cfs May 24. Two larger floods are known at this station; the maximum of record was 125,000 cfs in May 1884, and the second largest peak discharge known was 102,000 cfs in August 1915.

FLOOD DAMAGE

Damage caused by the floods of April-June 1953 was greater than that of any previous flood in Louisiana with the exception of the great Mississippi River flood of 1927 when main line levees were breached by crevasses.

Twelve lives were lost in the floods of 1953. More than 4 million acres of land was inundated, and many homes were flooded. Highway and railroad bridges and roadbeds were destroyed (fig. 30).

Figure 30. --U. S. 190 near Kinder, La., damaged by flood on Calcasieu River. Crest of flood covered road about 2 feet.

During the crest of the flood, all major highways in central and southern Louisiana were closed at some point. Direct damages to State roads and bridges were estimated by the Louisiana Highway Department to be $2,889,000.

Of the larger cities in Louisiana, Lake Charles was the hardest hit. At the crest of the flood, 60 percent of the area of the city was under water, 15,000 people were homeless, and 2,000 homes were flooded. The barracks area of the Lake Charles Air Force Base had to be evacuated, and water covered many of the operating airstrips.

In Texas, Orange and Deweyville sustained considerable losses. Extensive flooding from the Sabine River in this area is shown by figure 31. About 2,900 residential units, 200 business establishments, and 3 large industries in Orange were saved from flooding by the construction of a temporary levee. This levee was constructed under supervision of the Corps of Engineers by volunteers and personnel from local and Federal service units. Deducting the cost of levee construction, the benefits to Orange were estimated at $5,507,700 by the Corps of Engineers. At Deweyville (fig. 29), the entire town was flooded, and losses were estimated to be $141,500. Low areas in Beaumont were flooded by overflow of the Neches River, and losses were estimated at $97,400.

Growing crops, principally rice and cotton, were severely damaged. Following the flood, replanting was started on a large scale, but unfavorable weather conditions left the seed ungerminated in the ground. Losses in cattle and poultry exceeded half a million dollars.

The U. S. Weather Bureau compiles a summary of estimated flood losses each year for the major drainage basins in the United States. These estimates are based on information supplied from many sources. From these data the U. S. Weather Bureau estimated that in basins of the Mississippi River tributaries and the western Gulf of Mexico, damages were about $35,000,000, more than 70 percent of which occurred in the Calcasieu River basin.

These flood damages in the lower Mississippi River tributaries and western Gulf of Mexico drainage basins have been summarized by the Weather Bureau:

Mississippi River tributaries ---	$2,911,000
Vermilion River----------	34,500
Nezpique River----------	805,000
Mermentau River----------	1,882,500
Calcasieu River ----------	24,810,000
Sabine River ----------	4,327,000
Total ----------	$34,770,000

The total is exclusive of damage in the Neches River basin, estimates of which were not available.

Figure 31.--U. S. 90 at Orange, Tex., flooded by Sabine River. Photo by Corps of Engineers on May 24, near crest of flood.

Not included in these figures are estimates of flood damage in the Red River basin and the Florida parishes in the area of this report. The Corps of Engineers estimated the damage in the Red River backwater area of the Black River as $1,750,000 in the Beouf River and Tensas River basins in Louisiana as $774,000, and in the reach of Red River below the vicinity of Grand Ecore as $3,064,900. A flood loss of $5,023,400 was estimated in the Florida parishes.

Flood losses sustained have been summarized from figures obtained from the Corps of Engineers (see next page).

Location	Area overflowed (acres)	Agricultural losses	Non-crop damage	Total
Homochitto River	17,000	$16,000	----	$16,000
Red River--Grand Ecore to mouth	296,800	2,287,200	777,700	2,064,900
Red-Black River backwater area 1/	662,000	1,260,000	490,000	1,750,000
Boeuf-Tensas basin 2/	190,000	684,000	90,000	774,000
Florida parishes	562,700	3,158,100	1,865,300	5,023,400
East of Atchafalaya Floodway	285,000	842,700	10,700	853,400
West of Atchafalaya Floodway	618,000	6,702,000	1,157,300	7,859,300
Mermentau River basin	900,100	5,680,000	445,600	6,125,600
Calcasieu River basin	520,200	2,404,000	3,202,500	5,606,500
Sabine River basin	323,000	989,500	1,314,800	2,304,300
Neches River basin	127,000	177,600	204,900	382,500
Total	4,501,800	$24,201,100	$9,558,800	$33,759,900

1/ Data are for Vicksburg district only.
2/ Data are for Louisiana only.

Damage estimates compiled by these agencies show some discrepancies for the same area, with the widest variance in the Calcasieu River basin. No attempt has been made in this report to reconcile the figures.

METEOROLOGY AND PRECIPITATION

Meteorology

(Prepared by the United States Weather Bureau)

Storm of April 27-May 5, 1953

The heaviest 24-hour rainfall of record occurred at several stations in central Louisiana and southwestern Mississippi during this storm. High winds, as well as a tornado, accompanied the heavy rainfall in northern Louisiana just after midnight on the 28th. This heavy rainfall was prompted by an instability or squall line crossing the area early on the 29th, several hundred miles ahead of a cold front advancing from the west. The thunderstorms accompanying the squall line were very severe, as shown by the 1-day record precipitation amounts at Pollock, in central Louisiana, with 12.77 inches and Camp Polk with 12.54 inches. The rain ended with the passage of the cold front by the evening of the 29th.

Another cold front advancing from the northwest moved into Louisiana by the evening of May 1 and became stationary when it paralleled the coast. However, no precipitation occurred until early on May 3 when a few showers developed near the Gulf Coast in the vicinity of the stationary front. Still another cold front,

which moved into the area from the west on May 3, set off more showers and thunderstorms in southeastern Texas, Louisiana, Southern Arkansas, and southwestern Mississippi. A wave, which helped to intensify the precipitation, developed in Louisiana by 1830Z (12:30 C. S. T.) May 4, when the cold front caught up with the stationary front near the Louisiana coast. With the eastward movement of the cold front early on the 5th, the rain ended.

Strong southerly winds, up to an elevation of 10,000 feet, brought throughout this period warm temperatures and abundant moisture which aided in producing the excessive precipitation.

Storm of May 11-19, 1953

Showers and thunderstorms, triggered by a squall line crossing the State, occurred on May 11 in Arkansas. Later in the same day, a cold front moved into the area from the west causing more showers and thunderstorms. The front advanced southward into northern Louisiana with precipitation falling on both sides of it. Here, the front became stationary on May 13, with heavy showers accompanying it in northern Louisiana and Arkansas. Meanwhile, another cold front was advancing into this area from the northwest by midnight of May 13, preceded by a squall line in Arkansas. Heavy thunderstorms occurred in Arkansas, northern Louisiana, eastern Oklahoma, and eastern Texas between the two fronts. As the squall line advanced southeast, it overtook the stationary front where rain was still falling in Louisiana. With the southeasterly moving cold front, more rain came in Arkansas and Louisiana. By 0330Z May 14 (9:30 p. m. May 13, C. S. T.), the cold front had moved into southern Arkansas, northwestern Louisiana, and eastern Texas where it became stationary. Shortly thereafter it retreated northward through Arkansas as a warm front.

Meanwhile, by May 16 a cold front extending into eastern Texas developed in Oklahoma and advanced southeastward into Arkansas and Louisiana, again proceded by a squall line that developed in Arkansas and northern Louisiana. This squall line was accompanied by severe thunderstorms as well as two tornadoes, which were reported in north-central Louisiana contemporaneously. The cold front became stationary through central Arkansas, northwestern Louisiana, and southeastern Texas by midnight of May 16.

The weather remained unchanged through May 17 with a squall line developing shortly after midnight of the 17th in central Louisiana and moving rapidly eastward. The precipitation finally ended by 1830Z (12:30 p. m. C. S. T.) of the 19th, coincident with the squall line moving out of the Louisiana-Mississippi area.

The southerly winds, both at the surface and up to 10,000 feet, kept feeding moisture and warm air into Louisiana and adjacent States throughout the period, thus giving impetus to the already stormy conditions.

Precipitation

Three isohyetal maps, plates 5-7, were prepared to show the distribution of rainfall during the storm periods. These maps were based on precipitation records collected by the U. S. Weather Bureau at 310 stations.

Plate 5 is an isohyetal map of rainfall during the period April 27-May 5. The area of heaviest rainfall was in the headwaters of the Calcasieu River basin and in the lower Sabine River basin.

Plate 6, prepared by the U. S. Weather Bureau, is an isohyetal map of rainfall during the period May 11-19. During this period heavy rain fell over the entire area centering in southern Louisiana.

Plate 7 is an isohyetal map of rainfall during the entire period April 27-May 19.

Figures 32 and 33 show accumulated rainfall at six selected Weather Bureau recording gages during the two intense storm periods. During the period April 28 to May 5 there were two heavy storms. During the period May 10-18 rain fell almost daily, ending in very heavy amounts on May 17-18.

MEASUREMENT OF FLOOD DISCHARGES

The operation of a stream-gaging station consists principally of the development of a relation between stage and discharge, from which the discharge can be computed when the stage is known. The stage-discharge relation, or rating curve, is based on current-meter measurements over the range in stage experienced. It may be based, also, on current-meter measurements over a sufficient part of the range so that the discharge corresponding to the maximum stage can be obtained by a reasonable extension of the curve. At some stations where the slope is not always the same for a given stage, it is necessary to use the slope of the water surface as a factor in determining discharge. Variable slopes are caused by backwater, by changing discharge, or by a combination of these conditions. When these conditions exist singly or in combination, a fall-stage-discharge rating curve is required, and a second gage is used to determine slope.

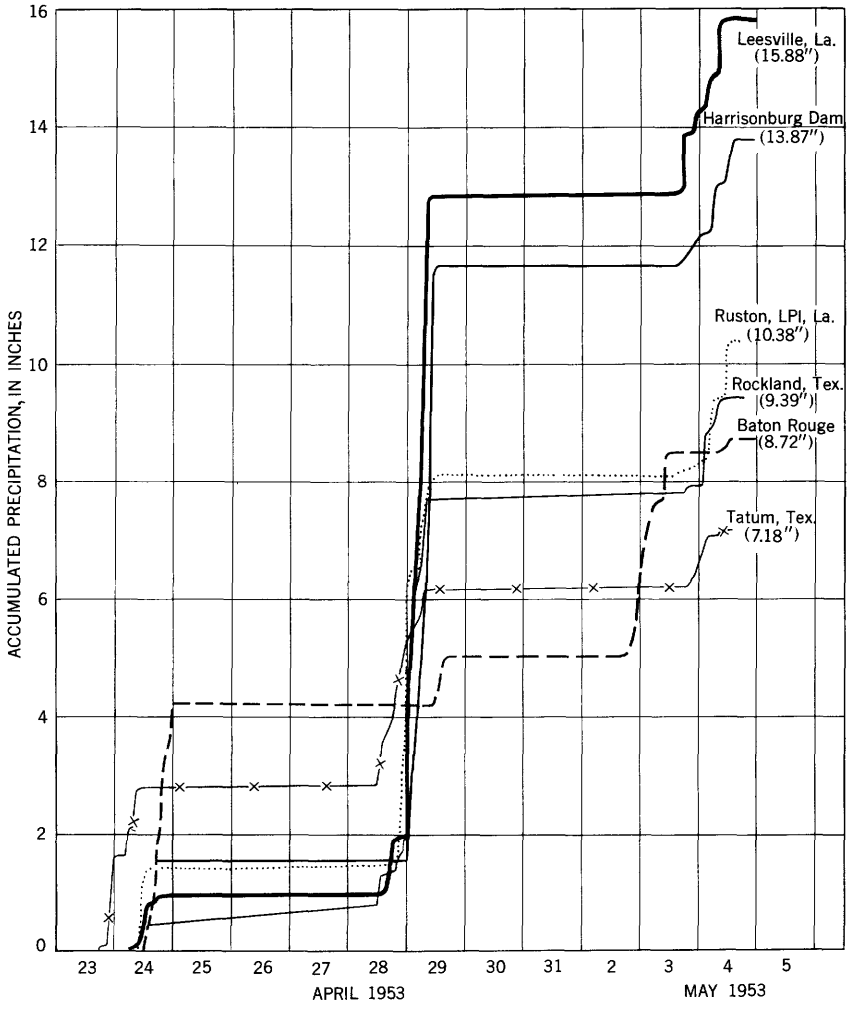

Figure 32. --Graph of accumulated rainfall at selected points, April 23 to May 4, 1953.

During periods of major floods, adverse conditions make it impossible to obtain current-meter measurements at all gaging stations. Therefore, in some cases, computations of peak discharge have been made by indirect methods based on detailed surveys of selected channel reaches. A general description of these indirect methods can be found in Water-Supply Paper 888. Water-Supply Papers 773-E, 796-G, and 816 contain more detailed descriptions of the slope-area method with illustrated examples.

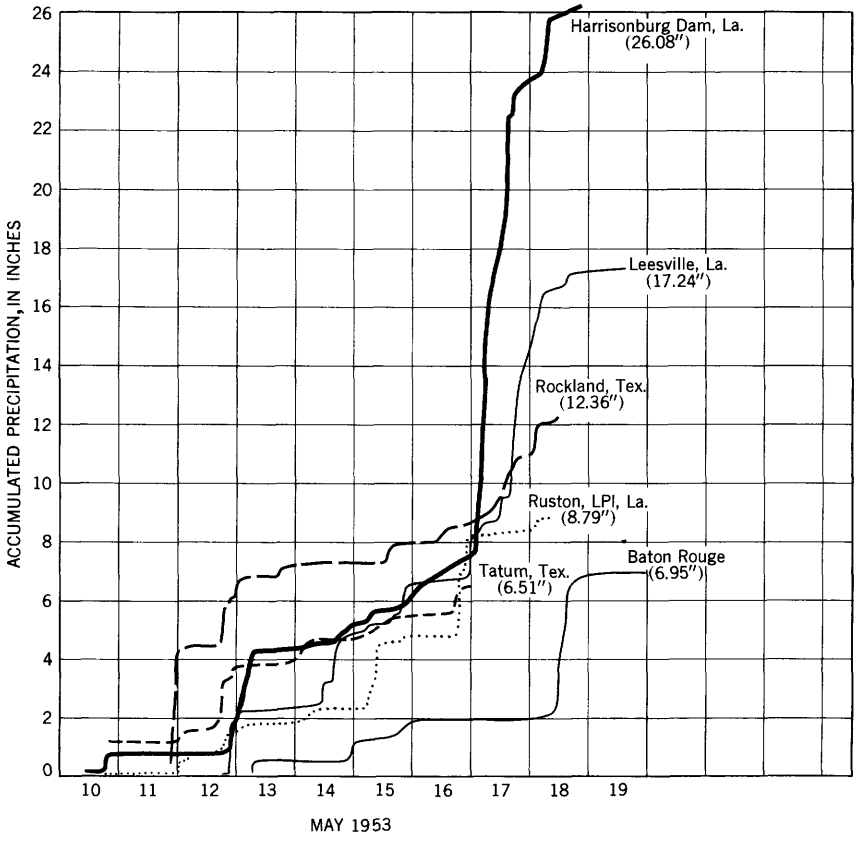

Figure 33. --Graph of accumulated rainfall at selected points, May 10-19, 1953.

STAGES AND DISCHARGES AT STREAM-GAGING STATIONS

Explanation of Data

The data presented on the following pages consist of a description of the gaging station, a table of daily discharges for the 3 months, April-June 1953, and a table of stage and discharge at sufficient intervals of a day during the major flood periods to permit accurate definition of the flood hydrograph.

The station description contains information concerning the location and datum of the gage, the drainage area, the type of gage, the method used in determining discharge, the maximum

during the flood period, the maximum for the period of gaging station record prior to April 1953, historical data on maxima if available, and miscellaneous remarks on pertinent items. At stations where interchange of flow between basins upstream occurs, the area figure is omitted or qualified.

Daily mean discharges for April-June 1953 are tabulated below the station description. The table covers the 3 months in order to present not only the flood period but also a sufficient length of time before and after the peak to show the relation of flood discharge to the discharges of the preceding and following periods.

A tabulation of stage and discharge at indicated times follow the tabulation of daily discharge. The stages at indicated times were obtained from records of continuous water-stage recorders, as far as such records were available. When the record was interrupted the stage graph was usually completed on the basis of flood marks, manual gage readings, and comparison with the record at a nearby station. For stations at which the records of stage consisted of one or more gage readings a day, a graph was drawn on the basis of the gage readings and floodmarks. Details of the method used for an individual station are described in the paragraph headed "gage-height record." The period selected for this tabulation is the main period of the flood and varies with the individual stations.

Figure 34-38 are hydrographs of discharge at selected gaging stations and figure 39 shows mass curves of cumulative runoff in the Sabine River and Neches River basins.

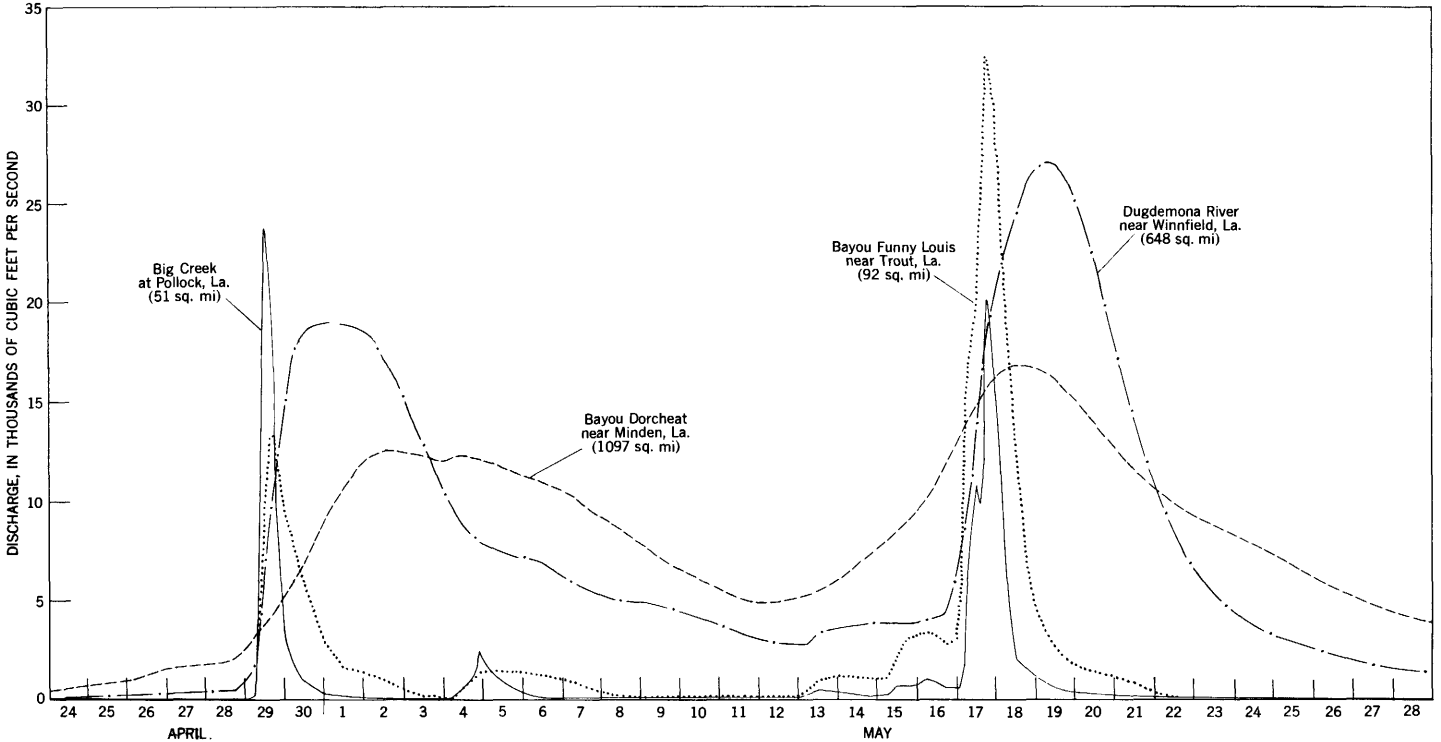

Figure 34. --Graphs of discharge for selected gaging stations in Red River basin.

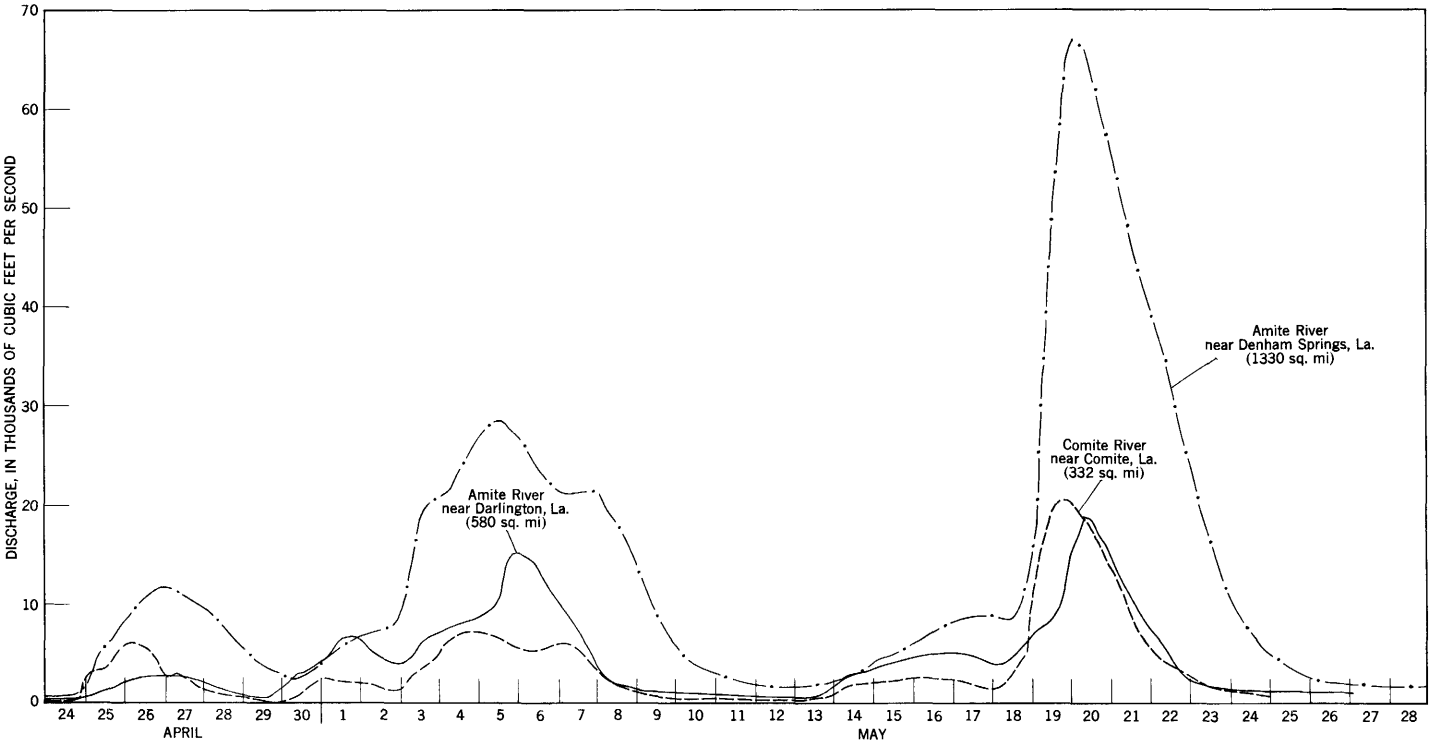

Figure 35. --Graphs of discharge for selected gaging stations in Mississippi River delta.

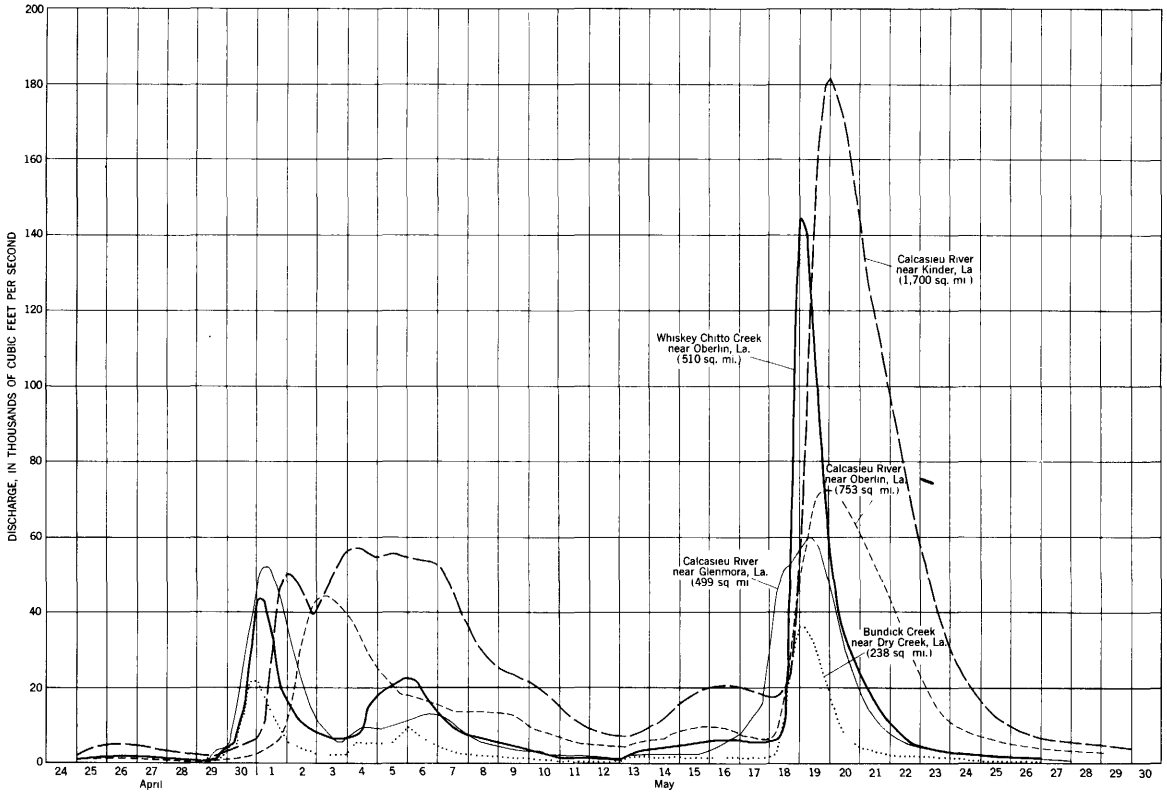

Figure 36.--Graphs of discharge for selected gaging stations in Calcasieu River basin.

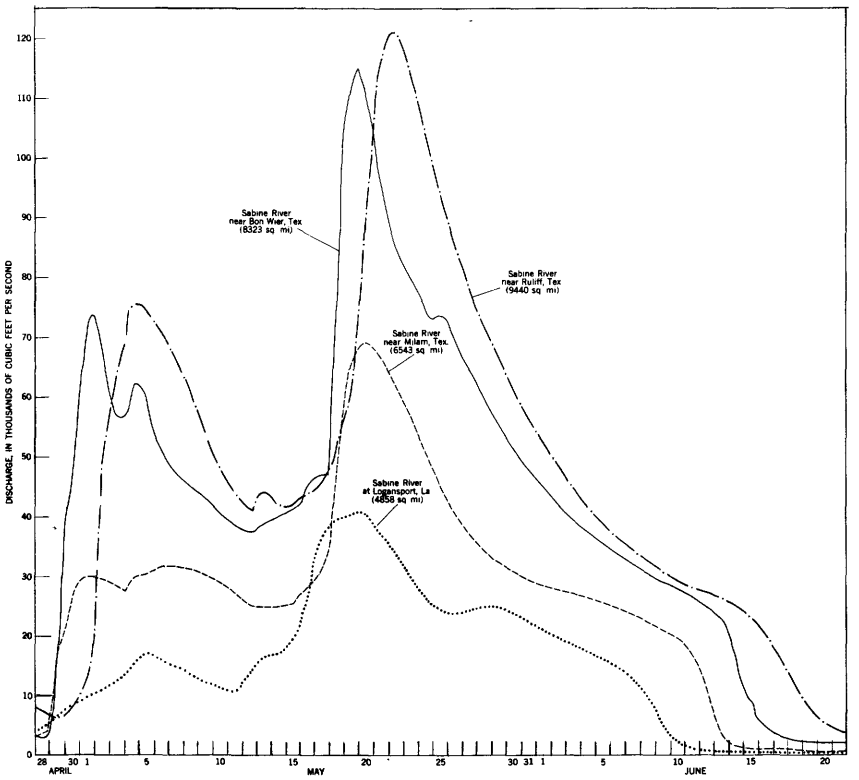

Figure 37. --Graphs of discharge for selected gaging stations in Sabine River.

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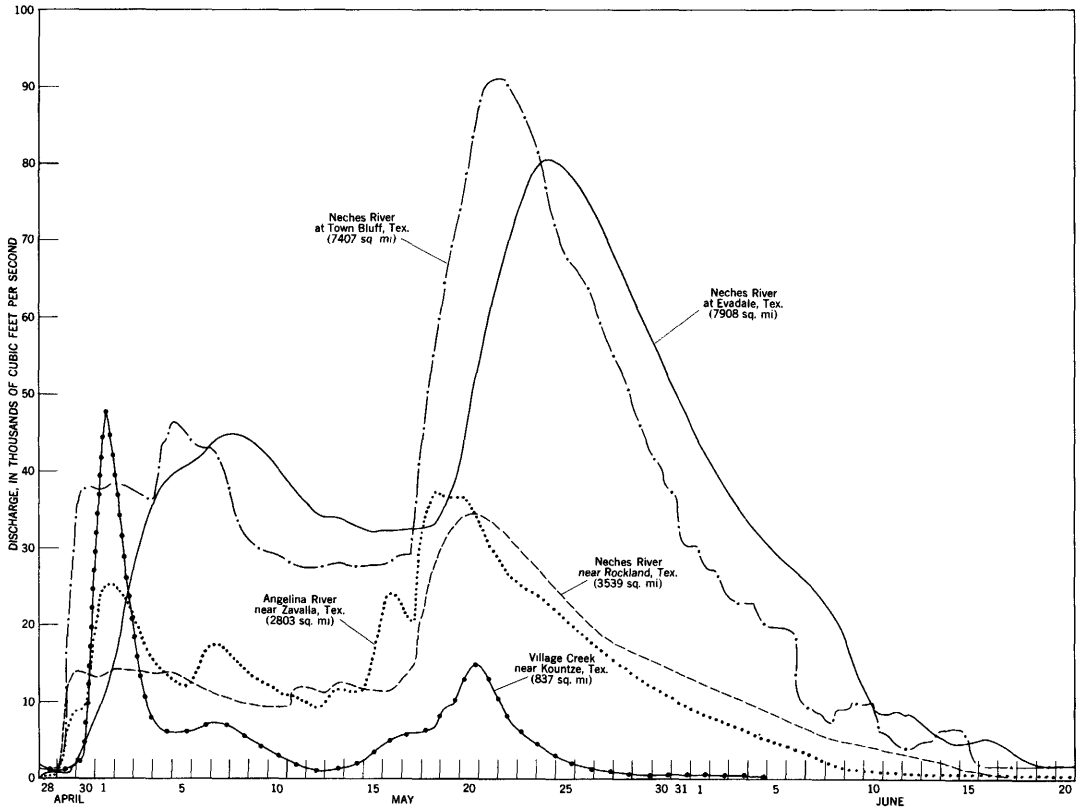

Figure 38. --Graphs of discharge for selected gaging stations in Neches River basin.

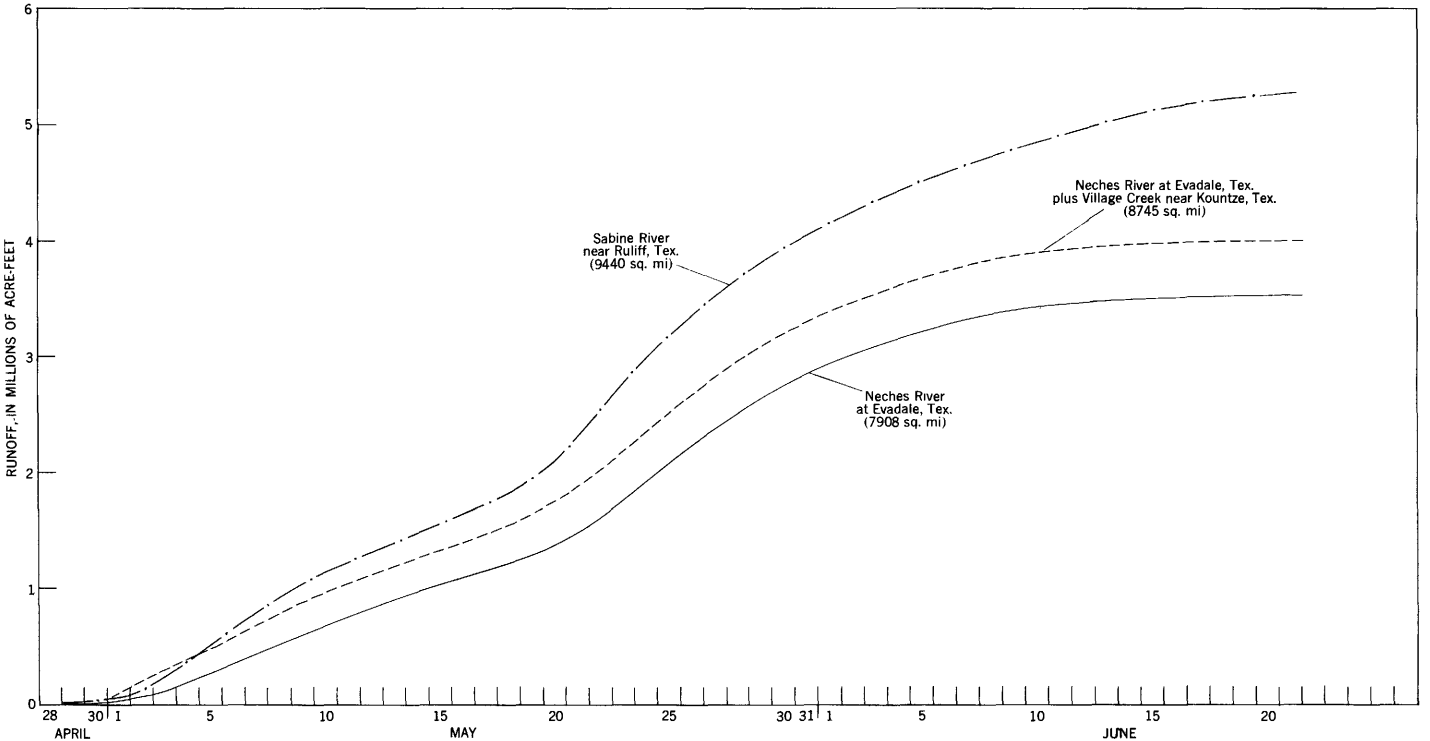

Figure 39.--Mass curves showing cumulative runoff in Sabine and Neches River basin.

Homochitto River at Eddiceton, Miss.

Location.--Lat 31°30', long 90°47', in sec. 11, T. 6 N., R. 4 E., Washington meridian, on left bank at upstream side of Mississippi Central Railroad bridge, 900 ft downstream from bridge on U. S. Highway 84, 0.4 mile upstream from McCall Creek, and three-quarters of a mile east of Eddiceton. Datum of gage is 217.22 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--180 sq mi, approximately.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 22,000 cfs and extended to peak stage by logarithmic plotting.
Maxima.--April-June 1953: Discharge, 28,100 cfs 11:30 p.m. May 17 (gage height, 16.37 ft).
1938 to March 1953: Discharge, 30,900 cfs Mar. 29, 1939; maximum gage height, 15.74 ft May 2, 1950.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	171	584	118	11	99	166	77	21	96	620	86
2	149	425	110	12	114	117	75	22	81	490	126
3	126	1,080	105	13	136	1,990	73	23	70	390	140
4	111	7,540	101	14	99	882	70	24	505	323	82
5	99	2,780	98	15	217	3,240	66	25	2,570	268	73
6	187	577	93	16	172	806	64	26	410	224	68
7	455	442	91	17	83	9,350	61	27	200	192	68
8	203	307	86	18	107	18,600	61	28	146	161	140
9	139	237	83	19	234	3,160	82	29	6,810	143	192
10	111	198	80	20	126	811	115	30	4,730	135	105
								31	-	125	-
Monthly mean discharge, in cubic feet per second									625	1,818	93.0
Runoff, in acre-feet									-	-	-
Runoff, in inches									3.88	11.65	0.58

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		8	3.43	790	12	2.44	261	6	3.25	675
12	1.60	68	10	3.35	738		May 9		12	3.02	541
	April 24		12	3.28	693	N	2.38	238		May 17	
N	1.60	68		May 1		12	2.30	210	4	2.98	519
2	1.65	76	8	3.13	603		May 10		6	3.39	764
4	1.89	120	4	3.05	558	N	2.24	189	8	5.30	2,690
6	2.07	158	12	2.93	492	12	2.28	203	10	8.94	9,420
8	4.15	1,360		May 2			May 11		N	9.78	11,200
10	5.06	2,380	N	2.81	430	N	2.16	162	2	9.45	10,500
12	5.56	3,040	12	2.64	348	12	2.08	136	4	8.28	8,060
	April 25			May 3			May 12		5	7.76	7,020
2	6.37	4,360	8	2.56	312	N	2.02	117	6	8.19	7,880
4	6.67	4,900	N	2.59	326	12	1.96	97	8	13.30	19,700
6	6.38	4,370	2	3.13	603		May 13		10	16.00	27,000
8	6.01	3,740	4	4.41	1,630	2	1.95	96	11:30	16.37	28,100
10	5.47	2,920	6	5.56	3,040	4	2.04	123	12	16.33	28,000
N	4.95	2,250	8	5.32	2,720	6	2.80	425		May 18	
2	4.58	1,820	10	4.73	1,990	8	5.17	2,520	2	15.80	26,400
4	4.31	1,520	12	4.38	1,600	10	6.34	4,300	4	15.14	24,600
6	4.02	1,240		May 4		11	6.54	4,660	6	14.46	22,800
8	3.78	1,040	2	5.00	2,310	N	6.38	4,370	8	13.64	20,600
10	3.53	856	4	5.81	3,420	2	5.88	3,530	10	12.81	18,400
12	3.33	724	6	5.90	3,560	4	5.31	2,700	N	12.83	18,500
	April 26		8	5.54	3,020	6	4.75	2,010	2	12.50	17,600
6	2.92	486	10	5.11	2,440	8	4.45	1,680	4	11.93	16,200
N	2.67	362	N	4.83	2,110	10	4.14	1,350	6	11.25	14,600
6	2.55	308	2	8.51	8,520	12	3.78	1,040	8	10.70	13,300
12	2.40	245	4	11.63	15,500		May 14		10	9.92	11,500
	April 27		6	12.33	17,200	4	3.31	712	12	9.17	9,910
N	2.26	196	8	11.41	15,000	8	3.04	552		May 19	
12	2.16	162	10	10.11	11,900	N	2.89	470	2	8.20	7,900
	April 28		12	8.89	9,320	4	2.90	475	4	7.22	5,950
N	2.11	145		May 5		6	3.25	675	6	6.30	4,230
12	2.06	130	2	8.10	7,700	8	4.16	1,370	8	5.51	2,970
	April 29		4	7.31	6,120	10	4.54	1,770	10	5.10	2,430
N	2.05	126	6	6.33	4,280	12	5.59	3,090	N	4.72	1,970
2	3.82	1,080	8	5.42	2,850		May 15		4	4.36	1,580
4	10.41	12,600	10	4.73	1,990	2	6.24	4,130	8	3.96	1,190
6	13.13	19,200	N	4.11	1,320	4	6.74	5,040	12	3.76	1,030
8	13.57	20,400	4	3.52	849	6	7.08	5,680		May 20	
10	13.15	19,300	8	3.32	718	8	6.76	5,070	6	3.50	850
12	12.09	16,600	12	3.15	615	10	6.27	4,180	N	3.40	790
	April 30			May 6		N	5.80	3,400	6	3.32	746
2	10.81	13,600	6	3.06	563	2	5.26	2,640	12	3.21	686
4	9.47	10,500	N	3.13	603	4	4.82	2,090		May 21	
6	8.28	8,060	6	3.08	574	6	4.50	1,730	N	3.09	626
8	6.93	5,400	12	2.99	524	8	4.32	1,530	12	2.90	542
10	5.85	3,480		May 7		10	4.06	1,280		May 22	
N	4.89	2,180	N	2.83	440	12	3.93	1,170	N	2.80	494
2	4.23	1,440	12	2.67	362		May 16		12	2.62	428
4	3.83	1,080		May 8		6	3.53	856		May 23	
6	3.56	877	N	2.54	303	N	3.50	835	N	2.55	391
									12	2.42	350

Homochitto River at Rosetta, Miss.

Location.--Lat 31°19'20", long 91°06'20", in sec. 12, T. 4 N., R. 1 E., Washington meridian, near right bank on downstream side of pier of bridge on county road at Rosetta, 800 feet downstream from Yazoo and Mississippi Valley Railroad bridge, 1 mile downstream from Foster Creek, 5 miles upstream from Dry Creek, and at mile 29.8. Datum of gage is 94.39 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--750 sq mi, approximately.
Gage record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 59,400 cfs 9 p.m. May 4 (gage height, 36.03 ft).
1951 to March 1953: Discharge, 37,500 cfs Feb. 24, 1953 (gage height, 31.41 ft).
Stage since February 1949, 37.80 ft Mar. 31, 1949 (Corps of Engineers).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	916	5,730	558	11	572	1,430	445	21	581	2,630	540
2	841	3,040	552	12	842	1,140	434	22	538	1,650	507
3	668	6,250	531	13	767	9,230	421	23	518	1,200	536
4	633	32,800	511	14	621	4,460	417	24	637	1,010	478
5	614	25,500	503	15	820	10,700	419	25	8,710	886	474
6	623	5,840	494	16	1,150	3,990	408	26	3,040	792	476
7	1,600	3,260	478	17	722	21,300	417	27	1,560	722	470
8	784	2,290	465	18	602	55,600	421	28	1,190	699	657
9	648	1,780	459	19	722	24,400	406	29	13,100	640	1,050
10	604	1,520	450	20	680	5,480	597	30	30,300	614	663
								31	-	579	-
Monthly mean discharge, in cubic feet per second									2,520	7,650	508
Runoff, in acre-feet									-	-	-
Runoff, in inches									3.75	11.76	0.76

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		2	35.20	55,200	12	35.40	56,200	12	18.88	1,070
12	17.68	509	4	34.50	51,700		May 5			May 13	
	April 24		6	33.42	46,600	2	34.40	51,200	2	18.86	1,060
N	17.67	507	8	31.82	39,400	4	33.00	44,700	4	19.30	1,340
2	17.89	607	10	30.42	33,100	6	31.50	38,000	6	19.62	1,610
4	17.98	653	N	29.02	26,800	8	29.94	30,900	8	20.14	2,110
6	18.06	686	2	27.92	21,900	10	28.62	25,000	10	21.84	4,170
8	18.26	751	4	27.00	18,200	N	27.56	20,400	N	25.50	13,200
10	18.67	921	6	26.00	14,700	2	26.72	17,200	2	27.26	19,200
12	19.45	1,460	8	25.04	11,800	4	26.00	14,700	3	27.59	20,600
	April 25		10	24.54	10,400	6	25.05	11,800	4	27.54	20,400
2	22.60	5,540	12	24.16	9,330	8	24.53	10,400	6	26.86	17,700
4	25.10	12,000		May 1		10	24.17	9,360	8	25.80	14,100
6	25.88	14,300	4	23.44	7,460	12	23.85	8,510	10	24.70	10,800
8	25.63	13,600	8	22.93	6,240		May 6		12	23.75	8,250
10	25.18	12,200	N	22.48	5,310	4	23.33	7,180		May 14	
N	24.68	10,800	4	22.13	4,680	8	22.95	6,280	4	22.62	5,580
2	24.10	9,160	8	21.84	4,170	N	22.62	5,580	8	21.91	4,290
4	23.46	7,510	12	21.56	3,730	4	22.37	5,120	N	21.55	3,720
6	23.00	6,400		May 2		8	22.08	4,590	6	21.29	3,390
8	22.48	5,310	6	21.22	3,300	12	21.75	4,020	12	21.75	4,020
12	21.92	4,310	N	20.94	2,980		May 7			May 15	
	April 26		6	20.72	2,740	4	21.52	3,680	2	23.58	7,810
4	21.71	3,960	12	20.58	2,590	8	21.29	3,390	4	24.93	11,500
8	21.34	3,450		May 3		N	21.13	3,200	6	25.83	14,200
N	20.91	2,950	6	20.38	2,370	4	20.97	3,020	8	26.46	16,300
4	20.56	2,570	N	20.20	2,170	8	20.86	2,900	9	26.62	16,900
8	20.23	2,200	1	20.17	2,140	12	20.66	2,680	10	26.53	16,600
12	19.99	1,960	2	20.46	2,460		May 8		N	26.10	15,000
	April 27		4	21.16	3,230	6	20.43	2,420	2	25.05	11,800
6	19.72	1,700	6	22.20	4,810	N	20.30	2,280	4	24.22	9,500
N	19.53	1,530	8	26.00	14,700	6	20.17	2,140	6	23.60	7,860
6	19.38	1,400	10	28.31	23,600	12	20.02	1,990	8	23.07	6,560
12	19.25	1,300	12	27.96	22,000		May 9		10	22.72	5,780
	April 28			May 4		N	19.78	1,750	12	22.52	5,390
N	19.09	1,180	2	26.96	18,100	12	19.67	1,650		May 16	
12	18.96	1,110	4	26.00	14,700		May 10		4	22.23	4,860
	April 29		6	25.70	13,800	N	19.49	1,490	8	21.96	4,380
N	18.90	1,080	8	25.80	14,100	4	19.44	1,450	N	21.66	3,880
2	19.42	1,440	10	25.90	14,400	8	19.45	1,460	4	21.36	3,470
4	20.70	2,720	N	26.50	16,400	12	19.47	1,480	8	21.13	3,200
6	26.50	16,400	2	30.00	31,200		May 11		12	20.85	2,880
8	33.30	46,000	4	35.00	54,200	6	19.55	1,540		May 17	
10	35.10	54,700	6	35.96	59,000	N	19.44	1,450	6	20.46	2,460
12	35.54	56,900	8	36.00	59,200	12	19.19	1,250	8	20.72	2,740
	April 30		9	36.03	59,400		May 12		10	22.80	5,950
1	35.56	57,000	10	35.90	58,700	N	19.00	1,130	N	26.00	14,700

Homochitto River at Rosetta, Miss.--Continued

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
2	30.35	32,800	N	35.82	58,300	10	28.58	24,800	8	21.65	3,860
4	32.15	40,900	1	35.91	58,800	N	27.48	20,100	12	21.26	3,350
6	32.46	42,300	2	35.87	58,600	2	26.51	16,500		May 21	
8	31.98	40,100	4	35.70	57,700	4	25.60	13,500	6	20.86	2,900
9	31.81	39,300	6	35.38	56,100	6	25.10	12,000	N	20.58	2,590
10	32.28	41,500	8	35.14	54,900	8	24.58	10,500	6	20.35	2,340
12	34.38	51,100	10	34.76	53,000	10	24.18	9,380	12	20.04	2,010
	May 18		12	34.24	50,400	12	23.88	8,590		May 22	
2	34.84	53,400		May 19			May 20		8	19.73	1,710
4	35.11	54,800	2	33.46	46,800	4	23.26	7,010	4	19.55	1,540
6	35.30	55,700	4	32.43	42,100	8	22.88	6,130	12	19.35	1,380
8	35.50	56,700	6	31.21	36,600	N	22.51	5,370		May 23	
10	35.66	57,500	8	30.03	31,300	4	22.06	4,560	N	19.07	1,170
									12	18.95	1,100

Buffalo River near Woodville, Miss.

Location.--Lat 31°13'35", long 91°17'45", in SW¼ sec. 21, T. 3 N., R. 2 W., Washington meridian, near center of span on downstream side of bridge on U. S. Highway 61, 1½ miles downstream from Fords Creek, 2¾ miles west of Wilkinson, and 8½ miles north of Woodville. Datum of gage is 97.52 ft above mean sea level, datum of 1929.
Drainage area.--182 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 20,000 cfs and extended to peak stage on basis of velocity-area study.
Maxima.--April-June 1953: Discharge, 37,200 cfs 7 p.m. May 4 (gage height, 15.66 ft).
1942 to March 1953: Discharge 39,900 cfs Mar. 2, 1948 (gage height, 16.2 ft).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	148	510	121	11	94	507	67	21	74	694	55
2	142	334	109	12	165	430	79	22	73	516	118
3	113	447	100	13	145	6,940	229	23	71	415	101
4	103	16,300	92	14	96	1,940	91	24	167	335	63
5	94	4,800	87	15	259	2,500	73	25	1,590	272	58
6	137	1,960	85	16	165	1,360	67	26	267	222	61
7	344	1,190	82	17	94	1,770	63	27	128	195	55
8	156	859	81	18	87	8,810	60	28	100	177	247
9	123	684	81	19	81	3,240	57	29	2,860	156	167
10	109	574	73	20	76	1,160	56	30	1,740	142	87
								31	-	130	-
Monthly mean discharge, in cubic feet per second									327	1,928	92.2
Runoff, in acre-feet									-	-	-
Runoff, in inches									2.00	12.21	0.57

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		8	3.49	868		May 7			May 16	
12	1.69	71	12	3.24	706	N	4.55	1,180	6	4.34	1,620
	April 24			May 1		12	4.37	989	N	4.27	1,550
N	1.69	71	6	3.00	560		May 8		6	4.22	1,510
4	1.81	91	N	2.88	486	N	4.21	842	12	3.99	1,310
6	2.02	138	6	2.79	440	12	4.12	762		May 17	
8	2.64	368	12	2.71	400		May 9		6	3.83	1,180
10	2.80	450		May 2		N	4.00	673	N	3.82	1,180
12	3.46	830	N	2.58	327	12	3.95	629	2	4.03	1,340
	April 25		12	2.47	283		May 10		4	4.84	2,120
2	5.02	2,320		May 3		N	3.86	565	6	4.90	2,190
4	5.39	2,800	N	2.42	250	12	3.82	535	8	4.76	2,040
6	5.50	2,950	4	2.62	343		May 11		10	4.90	2,190
8	5.25	2,600	8	2.90	490	N	3.78	512	12	7.71	6,960
10	4.81	2,090	10	3.80	1,100	12	3.71	468		May 18	
N	4.36	1,600	12	4.74	1,990		May 12		2	9.14	10,700
2	3.94	1,200		May 4		N	3.64	427	3	9.24	11,000
4	3.60	934	2	5.01	2,310	12	3.60	400	4	9.17	10,800
6	3.35	762	4	4.85	2,140		May 13		6	8.73	9,520
8	3.14	634	6	4.37	1,640	2	3.65	432	8	8.01	7,620
10	2.96	535	8	3.96	1,290	4	4.30	927	10	7.72	6,980
12	2.82	468	10	6.52	4,540	6	7.65	6,830	N	7.44	6,370
	April 26		N	11.50	18,900	8	10.03	13,400	1	7.41	6,300
6	2.52	323	2	13.74	27,900	10	11.32	18,200	2	7.50	6,500
N	2.33	240	4	14.70	32,400	N	10.38	14,400	4	8.07	7,770
6	2.19	192	6	15.58	36,800	2	8.73	9,520	6	8.95	10,200
12	2.10	159	7	15.66	37,200	4	7.40	6,280	8	9.38	11,400
	April 27		8	15.40	35,900	6	6.59	4,660	10	9.01	10,300
N	1.98	123	10	13.03	25,000	8	6.08	3,820	12	8.17	8,010
12	1.90	107	12	9.08	10,500	10	5.67	3,200		May 19	
	April 28			May 5		12	5.35	2,740	4	6.57	4,630
N	1.86	100	2	8.03	7,670		May 14		8	5.73	3,300
12	1.83	94	4	7.49	6,480	6	4.84	2,120	N	5.20	2,540
	April 29		6	7.12	5,680	N	4.56	1,830	4	4.96	2,260
N	1.83	94	8	6.83	5,110	6	4.37	1,640	8	4.66	1,930
2	3.19	662	10	6.60	4,680	12	4.34	1,620	12	4.30	1,580
4	6.89	5,220	N	6.40	4,330		May 15			May 20	
6	8.61	9,190	2	2.26	4,030	2	4.57	1,840	N	3.78	1,100
7	8.80	9,720	4	6.11	3,720	4	5.46	2,890	12	3.55	875
8	8.69	9,410	6	5.98	3,380	6	6.04	3,760		May 21	
10	7.64	6,810	8	5.85	3,120	7	6.07	3,800	N	3.29	662
12	6.50	4,500	12	5.61	2,620	8	5.99	3,680	12	3.13	575
	April 30			May 6		10	5.66	3,190		May 22	
4	5.15	2,480	6	5.36	2,220	N	5.30	2,670	N	3.05	512
8	4.67	1,920	N	5.16	1,930	4	4.82	2,100	12	2.94	463
N	4.20	1,440	6	4.97	1,660	8	4.62	1,890		May 23	
4	3.80	1,100	12	4.78	1,430	12	4.50	1,770	N	2.87	409
									12	2.80	378

Twelvemile Bayou near Dixie, La.

Location.--Lat 32°38'45", long 93°52'40", in NW¼NW¼ sec. 14, T. 19 N., R. 15 W., at bridge on State Highway 995, 5.5 miles downstream from Caddo Lake and 4.2 miles southwest of Dixie. Datum of gage is 143.88 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--3,137 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Discharge Apr. 10-12 computed by using submergence as determined from auxiliary gage as a factor.
Maxima.--April-June 1953: Discharge, 19,800 cfs 12 noon May 24 (gage height, 29.83 ft).
1942 to March 1953: Discharge, 34,900 cfs Apr. 5, 1945 (gage height, 35.65 ft present datum).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	3,340	7,500	12,700	11	2,420	5,790	2,280	21	1,630	17,000	225
2	2,940	7,290	11,900	12	2,660	6,210	1,750	22	1,530	18,500	180
3	2,880	7,020	11,100	13	2,430	7,530	1,470	23	1,360	19,400	120
4	2,510	7,210	10,300	14	2,250	9,010	1,210	24	2,920	19,700	85
5	2,370	7,480	9,490	15	2,330	10,100	937	25	4,350	19,400	65
6	2,740	7,260	8,540	16	2,300	11,200	755	26	3,950	18,800	55
7	2,600	6,980	7,140	17	2,140	12,300	605	27	3,480	17,800	44
8	2,690	6,580	5,480	18	2,220	13,300	480	28	3,570	16,600	33
9	2,800	6,180	4,050	19	1,970	14,300	365	29	6,210	15,500	31
10	2,550	5,880	3,000	20	1,810	15,500	289	30	7,350	14,500	40
								31	-	13,600	-
Monthly mean discharge, in cubic feet per second									2,877	11,790	3,157
Runoff, in acre-feet									171,200	724,800	187,900
Runoff, in inches									1.02	4.33	1.12

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		10	19.15	6,280	12	18.45	5,920		May 21	
12	7.96	1,560	N	19.45	6,460		May 11		N	28.58	17,000
N	7.95	1,560	2	19.64	6,570	N	18.26	5,830	12	28.93	17,700
12	7.55	1,430	4	19.83	6,690	12	17.75	5,590		May 22	
	April 23		6	19.99	6,780		May 12		N	29.30	18,600
N	7.14	1,300	8	20.13	6,870	4	18.08	5,740	12	29.54	19,100
12	7.50	1,420	10	20.24	6,930	8	18.56	5,980		May 23	
	April 24		12	20.34	6,990	N	19.01	6,210	N	29.70	19,500
2	8.23	1,650		April 30		4	19.40	6,430	12	29.80	19,700
4	8.65	1,790	4	20.54	7,120	8	19.80	6,670		May 24	
6	9.50	2,080	8	20.75	7,260	12	20.10	6,850	N	29.83	19,800
8	10.12	2,320	N	20.94	7,390		May 13		12	29.77	19,600
10	10.90	2,640	4	21.12	7,520	4	20.49	7,090		May 25	
N	11.36	2,840	8	21.16	7,550	8	20.81	7,300	N	29.70	19,500
2	12.32	3,250	12	21.16	7,550	N	21.14	7,530	12	29.55	19,100
4	13.11	3,590		May 1		4	21.43	7,760		May 26	
6	13.68	3,830	N	21.10	7,500	8	21.68	7,960	N	29.40	18,800
8	14.13	4,030	12	21.00	7,430	12	21.96	8,190	12	29.18	18,300
10	14.42	4,150		May 2			May 14			May 27	
12	14.65	4,250	N	20.80	7,290	4	22.37	8,550	N	28.94	17,800
	April 25		12	20.61	7,160	8	22.70	8,860	12	28.69	17,200
8	15.02	4,410		May 3		N	22.94	9,100		May 28	
4	15.00	4,400	N	20.35	7,000	4	23.12	9,280	N	28.40	16,600
12	14.58	4,220	12	20.23	6,930	8	23.25	9,410	12	28.08	16,000
	April 26			May 4		12	23.38	9,550		May 29	
8	14.04	3,990	N	20.70	7,220		May 15		N	27.78	15,500
4	13.86	3,910	12	21.06	7,470	8	23.64	9,830	12	27.48	15,000
12	13.29	3,670		May 5		4	24.10	10,300		May 30	
	April 27		N	21.11	7,510	12	24.43	10,700	N	27.19	14,500
8	12.82	3,460	12	20.98	7,420		May 16		12	26.88	14,000
4	12.67	3,400		May 6		N	24.87	11,200		May 31	
12	12.85	3,480	N	20.75	7,260	12	25.29	11,800	N	26.58	13,600
	April 28		12	20.54	7,120		May 17		12	26.28	13,100
4	12.89	3,500		May 7		N	25.66	12,300			
8	12.94	3,520	N	20.36	7,010	12	26.03	12,800			
N	12.99	3,540	12	20.00	6,790		May 18				
4	12.82	3,460		May 8		N	26.36	13,300			
8	12.96	3,520	N	19.63	6,570	12	26.71	13,800			
12	14.76	4,300	12	19.30	6,370		May 19				
	April 29			May 9		N	27.06	14,300			
2	16.54	5,060	N	18.96	6,180	12	27.41	14,800			
4	17.43	5,450	12	18.56	5,980		May 20				
6	18.16	5,780		May 10		N	27.77	15,500			
8	18.70	6,050	N	18.24	5,820	12	28.16	16,100			

Red River at Shreveport, La.

Location.--Lat 32°30'55", long 93°44'25", in SE¼SE¼ sec. 30, T. 18 N., R. 13 W., at Illinois Central Railroad bridge at Shreveport, half a mile downstream from Cross Bayou. Datum of gage is 131.48 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).
Drainage area.--60,613 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used Apr. 1 to June 30.
Maxima.--April-June 1953: Discharge, 173,000 cfs May 20 (gage height, 27.32 ft).
1928 to March 1953: Discharge, 303,000 cfs Apr. 5, 1945 (discharge measurement); gage height, 37.9 ft in gage well, 38.4 ft from outside gage Apr. 7, 1945.
Stage known, 45.9 ft, present datum, in August 1849.
Remarks.--Some regulation by Lake Texoma. Most discharge measurements and computations of records furnished by Corps of Engineers; occasional discharge measurements made, gage-height record collected, and records reviewed by Geological Survey.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	25,400	115,000	43,800	11	72,600	75,300	13,900	21	24,800	160,000	6,030
2	22,200	127,000	39,300	12	64,600	73,500	12,800	22	22,200	144,000	5,380
3	21,700	129,000	35,100	13	56,800	81,800	11,400	23	21,200	133,000	4,760
4	23,200	129,000	32,500	14	50,000	108,000	10,800	24	23,200	124,000	4,560
5	25,400	120,000	30,000	15	46,100	139,000	9,280	25	27,100	114,000	4,390
6	26,500	109,000	27,100	16	40,800	149,000	8,730	26	30,700	102,000	4,210
7	26,500	102,000	23,700	17	36,500	159,000	7,900	27	50,800	88,700	4,040
8	31,900	87,700	20,200	18	31,900	167,000	7,420	28	69,900	76,200	3,860
9	57,600	84,700	17,100	19	28,200	172,000	6,940	29	92,700	67,200	3,690
10	71,700	79,900	15,100	20	26,500	173,000	6,480	30	103,000	58,500	3,370
								31	-	50,000	-
Monthly mean discharge, in cubic feet per second									41,720	112,900	14,130
Runoff, in thousand acre-feet									2,483	6,939	840.7
Runoff, in inches									-	-	-

Bayou Dorcheat near Minden, La.

Location.--Lat 32°35'55", long 93°20'00", in NW¼ sec. 31, T. 19 N., R. 9 W., at bridge on U. S. Highway 80, 3 miles west of Minden. Datum of gage is 133.75 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).
Drainage area.--1,097 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Stage-discharge relation affected by backwater June 4-30; discharge computed on basis of 2 discharge measurements, precipitation records, and records for nearby station.
Maxima.--April-June 1953: Discharge, 16,900 cfs 4 p.m. May 18 (gage height, 20.78 ft).
1928-1929, 1938 to March 1953: Discharge, 21,600 cfs Mar. 5, 1945 (gage height, 20.84 ft).
Stage known, 22.95 ft May 21, 1930 (discharge, 40,000 cfs), from reports of Corps of Engineers.
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	2,270	10,700	2,280	11	1,090	5,130	200	21	612	11,600	30
2	2,200	12,400	1,690	12	1,150	4,920	150	22	554	9,940	20
3	2,110	12,300	1,090	13	1,170	5,530	150	23	520	8,810	20
4	1,950	12,200	900	14	1,150	6,810	100	24	664	7,780	15
5	1,750	11,800	700	15	1,150	8,440	80	25	1,170	6,770	10
6	1,610	11,000	500	16	1,140	10,800	70	26	1,540	5,760	10
7	1,430	10,000	400	17	1,100	14,700	50	27	1,760	4,870	10
8	1,270	8,780	300	18	1,030	16,800	50	28	2,040	4,220	5
9	1,180	7,480	300	19	900	16,100	40	29	3,760	3,720	5
10	1,110	6,200	200	20	738	14,000	30	30	6,870	3,260	5
								31	-	2,790	-
Monthly mean discharge, in cubic feet per second									1,566	8,891	314
Runoff, in acre-feet									93,200	546,700	18,660
Runoff, in inches									1.59	9.34	0.32

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22			April 30			May 7		4	20.78	16,900
12	8.02	582	2	14.87	5,130	N	18.56	10,000	12	20.75	16,800
N	7.96	546	4	15.12	5,390	12	18.21	9,410		May 19	
12	7.95	540	6	15.38	5,680		May 8		N	20.61	16,200
	April 23		8	15.65	6,000	N	17.82	8,780	12	20.33	15,200
N	7.91	516	10	15.95	6,360	12	17.37	8,140		May 20	
12	7.90	510	N	16.20	6,660		May 9		N	20.02	14,000
	April 24		2	16.70	7,260	N	16.88	7,490	12	19.65	12,600
N	8.10	630	4	17.05	7,720	12	16.33	6,820		May 21	
12	8.53	885	6	17.34	8,100		May 10		N	19.24	11,500
	April 25		8	17.56	8,400	N	15.81	6,190	12	18.88	10,600
N	9.06	1,200	10	17.80	8,750	12	15.33	5,620		May 22	
12	9.41	1,410	12	18.00	9,060		May 11		N	18.51	9,920
	April 26			May 1		N	14.82	5,080	12	18.17	9,340
N	9.65	1,550	4	18.40	9,730	12	14.46	4,740		May 23	
12	9.81	1,650	8	18.73	10,300		May 12		N	17.85	8,800
	April 27		N	18.97	10,800	N	14.66	4,920	12	17.48	8,290
N	9.99	1,750	4	19.16	11,300	12	14.82	5,080		May 24	
12	10.18	1,870	8	19.31	11,600		May 13		N	17.11	7,790
	April 28		12	19.43	12,000	N	15.21	5,490	12	16.71	7,270
4	10.25	1,910		May 2		12	15.70	6,060		May 25	
8	10.33	1,960	4	19.51	12,200		May 14		N	16.30	6,780
N	10.41	2,010	8	19.56	12,300	8	16.13	6,580	12	15.86	6,250
4	10.51	2,080	N	19.60	12,400	4	16.54	7,070		May 26	
8	10.63	2,150	4	19.62	12,500	12	16.88	7,490	N	15.46	5,770
12	11.09	2,430	8	19.63	12,500		May 15		12	15.00	5,260
	April 29		12	19.62	12,500	8	17.30	8,040		May 27	
2	11.60	2,750		May 3		4	17.81	8,760	N	14.58	4,850
4	11.97	2,980	N	19.55	12,300	12	18.28	9,530	12	14.20	4,510
6	12.23	3,140	12	19.44	12,000		May 16			May 28	
8	12.50	3,310		May 4		8	18.69	10,300	N	13.82	4,210
10	12.86	3,540	N	19.54	12,300	4	19.11	11,100	12	13.46	3,960
N	13.21	3,790	12	19.47	12,100	12	19.64	12,600		May 29	
2	13.53	4,010		May 5			May 17		N	13.12	3,720
4	13.81	4,210	N	19.35	11,800	8	20.08	14,200	12	12.73	3,490
6	14.07	4,410	12	19.20	11,400	4	20.40	15,400		May 30	
8	14.28	4,580		May 6		12	20.62	16,300	N	12.42	3,260
10	14.47	4,750	N	19.06	11,000		May 18		12	12.06	3,040
12	14.65	4,920	12	18.84	10,600	8	20.75	16,800		May 31	
									N	11.66	2,790
									12	11.27	2,540

Bayou Bodcau near Sarepta, La.

Location.--Lat 32°54'15", long 93°28'55", in NW¼ sec. 15, T. 22 N., R. 11 W., at bridge on State Highway 70, and 2 miles west of Sarepta. Datum of gage is 173.91 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).
Drainage area.--546 sq mi.
Gage-height record.--Water-stage recorder.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Rate of change of stage used as a factor in discharge computations April 24-26, 29 to May 3. Stage-discharge relation affected by backwater from flood-control dam May 19 to June 20; discharge computed on basis of fall in reach, 2 discharge measurements, and records for nearby station.
Maxima.--April-June 1953: Discharge, 6,020 cfs 12 p.m. April 30; maximum gage height, 19.05 ft May 1.
1938 to March 1953: Discharge, 12,600 cfs July 6, 1940 (gage height, 22.16 ft). Flood of May 22, 23, 1930, exceeded 25 ft, and flood of 1905 may have reached a stage of 27 ft, from information by local residents.
Remarks.--Water used by paper mill at Springhill is pumped from wells and discharged later as waste into bayou approximately 8 miles above station. This discharge is not continuous but is stored in a reservoir and is released whenever the flow of bayou is sufficient to dilute effluent from mill.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	852	5,860	600	11	568	1,940	80	21	669	4,000	1.8
2	769	4,780	500	12	526	1,880	60	22	635	3,500	1.2
3	676	3,980	500	13	459	2,180	50	23	546	3,000	1.1
4	606	3,830	400	14	390	2,980	40	24	807	2,500	1.0
5	543	3,590	300	15	368	4,520	30	25	1,660	2,000	.9
6	531	3,300	200	16	376	5,660	20	26	2,440	1,700	.9
7	508	3,060	200	17	421	5,760	20	27	2,520	1,400	1.0
8	518	2,800	100	18	503	5,810	10	28	2,360	1,200	1.0
9	556	2,500	100	19	592	5,500	5	29	3,370	1,000	1.2
10	578	2,210	100	20	651	5,000	3	30	5,250	900	1.5
								31	-	700	-
Monthly mean discharge, in cubic feet per second									1,042	3,195	111
Runoff, in acre-feet									61,980	196,400	6,600
Runoff, in inches									2.13	6.75	0.23

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		10	14.67	2,180		April 30			May 8	
12	9.33	662	12	14.82	2,250	4	17.40	4,510	N	16.00	2,790
N	9.16	638		April 26		8	17.75	4,920	12	15.80	2,660
12	8.89	601	4	15.05	2,340	N	18.11	5,350		May 9	
	April 23		8	15.24	2,420	4	18.41	5,680	N	15.56	2,500
8	8.65	567	N	15.37	2,480	8	18.66	5,980	12	15.34	2,360
4	8.37	528	4	15.46	2,510	12	18.85	6,020		May 10	
12	8.07	486	8	15.53	2,480		May 1		N	15.07	2,200
	April 24		12	15.58	2,520	4	18.97	5,870	12	14.85	2,080
2	8.50	546		April 27		8	19.03	5,970		May 11	
4	8.83	592	8	15.62	2,540	10	19.05	6,000	N	14.57	1,920
6	9.06	624	4	15.58	2,520	N	19.03	5,970	12	14.36	1,820
8	9.68	712	12	15.49	2,450	4	19.00	5,920		May 12	
10	10.27	800		April 28		8	18.90	5,760	N	14.45	1,860
N	10.62	853	4	15.43	2,420	12	18.81	5,280	12	14.71	2,000
2	10.87	890	8	15.35	2,370		May 2			May 13	
4	11.05	918	N	15.27	2,320	N	18.43	4,760	N	14.96	2,140
6	11.18	939	4	15.17	2,260	12	18.05	4,310	12	15.46	2,440
8	11.34	964	8	15.09	2,210		May 3			May 14	
10	11.55	1,050	12	15.26	2,760	N	17.66	3,900	N	16.23	2,950
12	11.82	1,110		April 29		12	17.31	3,810	12	17.08	3,600
	April 25		2	15.70	3,160		May 4			May 15	
2	12.12	1,160	4	15.92	3,110	N	17.39	3,880	N	18.01	4,530
4	12.42	1,240	6	15.98	2,950	12	17.24	3,750	12	18.69	5,440
6	12.72	1,320	8	16.08	3,110		May 5			May 16	
8	13.02	1,420	10	16.24	3,260	N	17.06	3,590	N	18.84	5,660
10	13.31	1,520	N	16.35	2,280	12	16.87	3,440	12	18.96	5,860
N	13.57	1,620	2	16.44	3,360		May 6			May 17	
2	13.86	1,770	4	16.54	3,439	N	16.68	3,290	N	18.90	5,760
4	14.08	1,880	6	16.64	3,590	12	16.53	3,170	12	18.84	5,660
6	14.31	2,020	8	16.77	3,760		May 7			May 18	
8	14.51	2,110	10	16.93	3,970	N	16.37	3,060	N	18.93	5,810
			12	17.08	4,100	12	16.21	2,940	12	19.02	5,950

Loggy Bayou near Ninock, La.

Location.--Lat 32°14'10", long 93°25'35", in the SE¼SE¼ sec. 31, T. 15 N., R. 10 W., at bridge on U. S. Highway 71, a quarter of a mile downstream from Flat River, and 2 miles southeast of Ninock. Datum of gage is 100.26 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).
Drainage area.--2,628 sq mi.
Gage-height record.--Water-stage recorder graph. Auxiliary wire-weight gage 6 miles downstream read twice daily except Apr. 1 to May 25.
Discharge record.--Slope-stage-discharge relation defined by current-meter measurements. Discharge Apr. 1 to May 25 computed on basis of 5 discharge measurements, precipitation records, stages of Red River, and records for nearby stations. Discharge May 26 to June 16 computed by using fall as determined from auxiliary gage as a factor.
Maxima.--April-June 1953: Daily discharge, 20,000 cfs May 21, 22; maximum gage height, 43.95 ft May 21.
1948 to March 1953: Discharge, 14,300 cfs Feb. 7, 1949; gage height, 40.74 ft Feb. 21, 1950.
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1			12,200	11			3,380	21		20,000	2,510
2			10,100	12			3,320	22		20,000	2,420
3		15,000	7,730	13	5,000	16,000	3,210	23	2,000	19,000	2,330
4			6,310	14			3,130	24		19,000	2,240
5	4,000		5,230	15			3,030	25		18,000	2,200
6			4,540	16			2,920	26		17,900	2,100
7			4,250	17			2,860	27		17,800	2,060
8		17,000	3,910	18	3,000	17,000	2,810	28	5,000	17,800	1,980
9			3,670	19			2,710	29		17,000	1,940
10			3,550	20			2,610	30		15,900	1,900
								31	-	14,400	-
Monthly mean discharge, in cubic feet per second									3,833	16,830	3,772
Runoff, in thousand acre-feet									228.1	1,035	224.4
Runoff, in inches									1.63	7.38	1.60

Boggy Bayou near Keithville, La.

Location.--Lat 32°22'35", long 93°49'20", in NW¼SE¼ sec. 17. T. 16 N., R. 14 W., at bridge on U. S. Highway 171 and 3 miles north of Keithville. Datum of gage is 145.13 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).
Drainage area.--79 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used June 1-21. Stage-discharge relation indefinite June 22,23,29, 30; discharge computed on basis of records for nearby station.
Maxima.--April-June 1953: Discharge, 7,320 cfs 2-4 p.m. Apr. 29 (gage height 18.82 ft).
1938 to March 1953: Discharge, 14,800 cfs Jan. 5, 1946 (gage height, 20.2 ft, from graph based on gage readings), from rating curve extended above 5,200 cfs by velocity-area studies.
Stage known,26.7 ft, from floodmark, 1933.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	8.6	406	3.4	11	5.7	12	0.6	21	3.3	58	0.1
2	7.5	130	2.8	12	5.1	56	.7	22	3.3	30	.1
3	6.7	36	2.3	13	14	838	.9	23	3.2	19	.1
4	6.0	271	1.9	14	10	2,680	.5	24	4.4	13	0
5	5.7	711	1.7	15	5.8	2,490	.4	25	19	10	0
6	8.6	394	1.5	16	4.9	1,490	.4	26	27	8.8	0
7	25	140	1.2	17	4.6	915	.3	27	9.5	7.2	0
8	18	41	1.0	18	3.9	807	.3	28	12	5.4	0
9	10	22	1.0	19	3.7	390	.2	29	5,620	4.8	.1
10	7.1	15	.8	20	3.5	172	.1	30	2,260	4.5	.1
								31	-	4.1	-
Monthly mean discharge, in cubic feet per second									271	393	0.75
Runoff, in acre-feet									16,120	24,160	45
Runoff, in inches									3.83	5.73	0.01

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		8	16.26	940	N	13.59	128	12	17.57	3,940
12	9.30	3.3	12	16.05	680	4	13.03	100		May 15	
N	9.30	3.3		May 1		8	12.53	78	8	17.01	2,540
12	9.29	3.2	4	15.88	526	12	12.10	63	4	16.80	2,030
	April 23		8	15.74	440		May 8		12	16.72	1,850
N	9.28	3.1	N	15.61	388	4	11.75	52		May 16	
12	9.29	3.2	4	15.42	335	8	11.43	44	N	16.58	1,540
	April 24		8	15.18	287	N	11.19	39	12	16.31	1,020
N	9.38	4.0	12	14.88	245	4	10.99	34		May 17	
12	9.61	6.5		May 2		8	10.83	30	N	16.21	865
	April 25		4	14.49	199	12	10.70	28	12	16.24	910
8	9.95	12	8	13.99	151		May 9			May 18	
4	10.58	25	N	13.41	118	8	10.49	23	N	16.22	880
12	11.10	36	4	12.84	92	4	10.33	19	12	15.92	558
	April 26		8	12.32	71	12	10.22	17		May 19	
8	10.93	33	12	11.90	57		May 10		8	15.69	416
4	10.49	23		May 3		N	10.11	15	4	15.44	340
12	10.11	15	4	11.57	47	12	10.03	13	12	15.07	270
	April 27		8	11.23	40		May 11			May 20	
8	9.87	10	N	11.00	34	N	9.98	12	4	14.81	236
4	9.70	7.8	4	10.80	30	12	9.93	11	8	14.51	201
12	9.60	6.4	8	10.67	27		May 12		N	14.14	164
	April 28		12	10.56	24	2	10.00	13	4	13.77	138
2	9.58	6.2		May 4		4	10.02	13	8	13.29	112
4	9.55	5.8	2	10.59	25	6	10.04	13	12	12.82	91
6	9.53	5.6	4	10.92	32	8	10.07	14		May 21	
8	9.50	5.3	6	11.80	54	10	10.10	14	4	12.44	75
10	9.49	5.2	8	13.02	100	N	10.21	17	8	12.12	64
N	9.47	5.0	10	14.03	154	2	10.86	31	N	11.81	54
2	9.46	4.9	N	14.77	231	4	11.79	54	4	11.56	47
4	9.44	4.6	2	15.34	318	6	12.70	85	8	11.34	42
6	9.43	4.5	4	15.58	379	8	13.41	118	12	11.17	38
8	9.44	4.6	6	15.73	435	10	14.22	171		May 22	
10	9.85	10	8	15.88	526	12	14.89	246	8	10.89	32
12	14.10	160	10	16.00	630		May 13		4	10.66	26
	April 29		12	16.09	720	2	15.33	316	12	10.49	23
2	16.38	1,140		May 5		4	15.61	388		May 23	
4	17.34	3,360	4	16.10	730	6	15.86	512	8	10.35	20
6	17.98	5,020	8	16.10	730	8	16.03	660	4	10.23	17
8	18.41	6,180	N	16.12	754	10	16.13	766	12	10.14	15
10	18.72	7,040	4	16.10	730	N	16.20	850		May 24	
N	18.80	7,260	8	16.04	670	2	16.23	895	N	10.03	13
2	18.82	7,320	12	15.95	585	4	16.29	985	12	9.93	11
4	18.82	7,320		May 6		6	16.37	1,120		May 25	
6	18.77	7,180	4	15.83	491	8	16.46	1,290	N	9.88	10
8	18.61	6,730	8	15.72	430	10	16.52	1,410	12	9.81	9.4
10	18.39	6,120	N	15.61	388	12	16.55	1,480		May 26	
12	18.11	5,370	4	15.44	340		May 14		N	9.77	8.8
	April 30		8	15.23	296	4	16.56	1,500	12	9.72	8.1
4	17.52	3,810	12	14.93	251	8	16.65	1,690		May 27	
8	17.05	2,640		May 7		N	16.90	2,270	N	9.67	7.4
N	16.71	1,820	4	14.60	211	4	17.44	3,610	12	9.57	6.1
4	16.47	1,310	8	14.13	163	8	17.70	4,280			

Cypress Bayou near Keithville, La.

Location.--Lat 32°18'00", long 93°49'40", in SW¼ sec. 8, T. 15 N., R. 14 W., at bridge on U. S. Highway 171 and 2 miles south of Keithville. Datum of gage is 162.13 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).
Drainage area.--66 sq mi.
Gage-height record.-- Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 7,500 cfs and extended above on basis of velocity-area studies. Shifting-control method used Apr. 14-28.
Maxima.--April-June 1953: Discharge, 13,900 cfs 10 a.m. Apr.29 (gage height, 12.36 ft).
1938 to March 1953: Discharge, 14,700 cfs Jan. 5, 1946 (gage height, 13.32 ft). from rating curve extended above 6,400 cfs by velocity-area studies.
Stage known, 18.0 ft, from floodmark, in 1933.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	9.0	169	2.0	11	5.3	7.4	0.7	21	4.2	30	0.1
2	7.3	27	1.7	12	31	961	.7	22	4.1	16	.1
3	6.2	14	1.4	13	48	2,380	.6	23	4.0	11	0
4	5.7	483	1.1	14	14	2,140	.5	24	4.8	7.8	0
5	5.5	1,690	1.0	15	9.1	2,070	.4	25	8.7	6.0	0
6	37	210	.8	16	7.8	2,260	.4	26	10	4.9	0
7	61	36	.8	17	6.6	1,840	.3	27	6.4	4.0	0
8	19	18	.8	18	5.6	1,080	.3	28	14	3.4	0
9	10	11	.8	19	5.2	444	.2	29	6,730	3.2	.1
10	7.0	8.7	.8	20	4.5	80	.1	30	1,670	2.5	.1
								31	-	2.2	-
Monthly mean discharge, in cubic feet per second									292	517	0.53
Runoff, in acre-feet									17,380	31,780	31
Runoff, in inches									4.94	9.03	0.009

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		8	9.50	770	N	3.74	34		May 16	
12	1.72	4.1	12	9.11	464	4	3.56	29	4	10.34	2,940
N	1.72	4.1		May 1		8	3.41	26	8	10.19	2,430
12	1.71	4.0	4	8.30	298	12	3.27	23	N	10.08	2,100
	April 23		8	7.36	208		May 8		4	10.00	1,870
N	1.71	4.0	N	6.06	125	8	3.05	19	8	9.96	1,760
12	1.72	4.1	4	5.00	74	4	2.93	17	12	9.88	1,550
	April 24		8	4.45	54	12	2.74	14		May 17	
N	1.81	4.8	12	4.01	41		May 9		4	9.86	1,500
12	1.95	5.7		May 2		N	2.54	11	8	10.11	2,190
	April 25		8	3.56	29	12	2.46	9.7	N	10.12	2,220
8	2.09	6.9	4	3.23	22		May 10		4	10.04	1,990
4	2.40	9.8	12	2.96	17	N	2.36	8.6	8	9.92	1,650
12	2.68	13		May 3		12	2.29	7.8	12	9.83	1,420
	April 26		N	2.71	13		May 11			May 18	
8	2.52	11	12	2.53	11	N	2.24	7.3	4	9.73	1,180
4	2.32	9.0		May 4		12	2.21	7.0	8	9.70	1,100
12	2.16	7.6	2	2.55	11		May 12		N	9.70	1,100
	April 27		4	3.40	26	2	4.30	49	4	9.66	1,020
N	2.00	6.2	6	4.49	56	4	6.36	142	8	9.61	929
12	1.90	5.4	8	5.70	106	6	8.04	268	12	9.58	882
	April 28		10	7.16	193	8	8.70	360		May 19	
2	1.88	5.3	N	8.14	279	10	9.00	425	4	9.48	748
4	1.86	5.1	2	8.75	370	N	9.32	588	8	9.24	531
6	1.85	5.1	4	9.17	492	2	9.60	910	N	8.76	372
8	1.84	5.0	6	9.40	660	4	10.00	1,870	4	8.12	276
10	1.83	4.9	8	9.64	986	6	10.08	2,100	8	7.46	216
N	1.82	4.9	10	9.88	1,550	8	10.06	2,040	12	6.71	163
2	1.80	4.7	12	10.09	2,130	10	10.00	1,870		May 20	
4	1.80	4.7		May 5		12	9.98	1,820	4	6.04	124
6	1.80	4.7	4	10.20	2,460		May 13		8	5.34	89
8	1.81	4.8	8	10.14	2,280	4	9.96	1,760	N	4.80	66
10	2.30	8.9	N	9.95	1,740	8	10.20	2,460	4	4.46	54
12	7.40	211	4	9.81	1,380	N	10.36	3,010	8	4.20	46
	April 29		8	9.61	929	4	10.28	2,730	12	4.03	42
2	9.45	715	12	9.29	564	8	10.17	2,370		May 21	
4	10.15	2,310		May 6		12	10.05	2,020	8	3.71	33
6	10.64	4,180	2	9.06	446		May 14		4	3.42	26
8	11.70	9,700	4	8.74	368	4	9.96	1,760	12	3.16	21
10	12.36	13,900	6	8.27	294	8	9.96	1,760		May 22	
N	12.30	13,500	8	7.86	250	N	10.12	2,220	N	2.91	16
2	11.86	10,700	10	7.46	216	4	10.25	2,630	12	2.73	13
4	11.44	8,220	N	6.76	166	8	10.17	2,370		May 23	
6	11.12	6,550	2	6.28	137	12	10.09	2,130	N	2.53	11
8	10.83	5,100	4	5.78	110		May 15		12	2.39	8.9
10	10.62	4,090	6	5.25	84	4	10.00	1,870		May 24	
12	10.46	3,390	8	4.98	73	8	9.96	1,760	N	2.30	7.9
	April 30		10	4.66	61	N	9.91	1,630	12	2.16	6.5
4	10.22	2,530	12	4.50	56	4	9.96	1,760		May 25	
8	10.04	1,990		May 7		8	10.27	2,700	N	2.11	6.0
N	9.90	1,600	4	4.19	46	12	10.44	3,310	12	2.04	5.4
4	9.75	1,220	8	3.97	40						

Saline Bayou near Lucky, La.

Location.--Lat 32°15'00", long 92°58'35", in SW¼SW¼ sec. 27, T. 15 N., R. 6 W., at bridge on State Highway 99½ and 1.0 mile east of Lucky. Datum of gage is 152.65 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--154 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 6,400 cfs and extended as below.
Maxima.--April-June 1953: Discharge, 8,830 cfs 1 p.m. May 17 (gage height, 11.58 ft). 1940 to March 1953: Discharge, 13,500 cfs Jan. 1, 1945 (gage height, 12.9 ft), from rating curve extended above 6,400 cfs on basis of records for Black Lake Bayou near Castor and Dugdemona River near Jonesboro.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	168	2,660	60	11	85	197	28	21	85	712	16
2	140	1,250	53	12	74	190	26	22	74	526	16
3	122	722	47	13	76	310	25	23	66	356	19
4	108	2,030	43	14	99	454	24	24	108	220	26
5	96	2,210	39	15	169	574	22	25	202	169	23
6	95	2,290	37	16	228	1,700	20	26	187	140	18
7	104	1,230	34	17	207	7,730	19	27	156	117	17
8	113	736	32	18	182	4,940	19	28	118	100	17
9	115	500	31	19	139	2,100	18	29	1,090	88	26
10	103	311	29	20	105	1,080	17	30	3,230	76	33
								31	-	68	-
Monthly mean discharge, in cubic feet per second									261	1,122	27.8
Runoff, in acre-feet									15,560	69,000	1,650
Runoff, in inches									1.89	8.40	0.20

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22			May 1			May 12		12	8.97	3,020
12	4.00	78	4	9.18	3,350	N	5.46	183		May 19	
N	3.92	74	8	8.93	2,960	12	5.72	223	8	8.44	2,300
12	3.83	70	N	8.69	2,630		May 13		4	8.02	1,780
	April 23		4	8.44	2,300	N	6.06	321	12	7.70	1,410
N	3.77	66	8	8.20	2,000	12	6.21	374		May 20	
12	3.72	64	12	8.00	1,760		May 14		8	7.46	1,410
	April 24			May 2		N	6.47	476	4	7.25	970
8	3.73	64	4	7.83	1,560	12	6.50	490	12	7.08	836
4	4.94	135	8	7.66	1,370		May 15			May 21	
12	5.48	186	N	7.51	1,210	N	6.63	555	N	6.89	704
	April 25		4	7.37	1,070	12	6.88	698	12	6.72	602
N	5.65	209	8	7.25	970		May 16			May 22	
12	5.62	204	12	7.15	890	2	6.94	738	N	6.58	530
	April 26			May 3		4	7.01	787	12	6.39	441
N	5.48	186	N	6.89	704	6	7.12	866		May 23	
12	5.36	172	12	6.70	590	8	7.27	986	N	6.17	360
	April 27			May 4		10	7.40	1,100	12	5.88	264
N	5.21	157	8	7.01	787	N	7.53	1,230		May 24	
12	4.97	138	4	7.48	1,180	2	7.72	1,430	N	5.68	214
	April 28		12	7.92	1,660	4	8.02	1,780	12	5.49	187
8	4.77	123		May 5		6	8.32	2,150		May 25	
4	4.56	110	8	8.16	1,950	8	8.84	2,830	N	5.33	169
8	4.50	106	4	8.57	2,470	10	9.41	3,740	12	5.15	152
12	4.84	128	12	8.78	2,740	12	9.92	4,720		May 26	
	April 29			May 6			May 17		N	5.00	140
4	5.90	270	8	8.62	2,540	2	10.37	5,680	12	4.83	127
8	6.70	590	4	8.29	2,110	4	10.77	6,620		May 27	
N	7.37	1,070	12	7.99	1,680	6	11.14	7,570	N	4.68	117
4	7.82	1,540		May 7		8	11.38	8,240	12	4.53	108
8	8.13	1,920	8	7.64	1,340	10	11.53	8,680		May 28	
12	8.37	2,210	4	7.37	1,070	N	11.57	8,800	N	4.40	100
	April 30		12	7.16	898	1	11.58	8,830	12	4.28	93
2	8.44	2,300		May 8		2	11.56	8,770		May 29	
4	8.50	2,380	N	6.92	724	4	11.49	8,560	N	4.18	88
6	8.61	2,520	12	6.71	596	6	11.39	8,270	12	4.07	82
8	8.81	2,780		May 9		8	11.28	7,950		May 30	
10	9.05	3,140	N	6.52	500	10	11.16	7,620	N	3.97	76
N	9.26	3,480	12	6.30	405	12	11.00	7,200	12	3.87	72
2	9.40	3,720		May 10			May 18			May 31	
4	9.49	3,880	N	6.01	304	4	10.68	6,400	N	3.80	68
6	9.52	3,940	12	5.76	232	8	10.34	5,620	12	3.70	63
8	9.50	3,900		May 11		N	9.97	4,830			
10	9.45	3,810	N	5.54	193	4	9.62	4,130			
12	9.38	3,690	12	5.35	171	8	9.28	3,520			

Black Lake Bayou near Castor, La.

Location.--Lat 32°15'40", long 93°12'50", in NW¼ sec. 29, T. 15 N., R. 8 W., at bridge on State Highway 417 and 2.8 miles northwest of Castor.
Drainage area.--423 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used June 3-30.
Maxima.--April-June 1953: Discharge, 11,500 cfs 12 p.m. May 1 (gage height, 12.87 ft). 1940 to March 1953: Discharge, 14,100 cfs Apr. 3, 1945 (gage height, 13.2 ft, from floodmark).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	676	9,220	265	11	420	1,670	72	21	485	4,390	32
2	611	9,920	205	12	444	1,620	66	22	370	3,070	30
3	541	6,090	176	13	846	1,890	62	23	280	2,200	28
4	457	5,660	152	14	822	1,920	58	24	240	1,640	27
5	393	5,540	134	15	750	2,600	52	25	356	1,260	26
6	365	5,180	120	16	936	6,180	46	26	487	1,020	25
7	388	6,320	108	17	1,000	9,040	42	27	499	842	24
8	390	5,170	95	18	900	8,120	40	28	526	682	24
9	393	3,400	85	19	760	6,490	38	29	3,790	538	28
10	408	2,300	79	20	611	5,510	35	30	5,390	423	32
								31	-	388	-
Monthly mean discharge, in cubic feet per second									818	3,879	73.5
Runoff, in acre-feet									48,660	238,500	4,380
Runoff, in inches									2.16	10.57	0.19

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		10	12.19	8,820		May 10		8	12.30	9,200
12	6.41	322	N	12.37	9,480	8	9.31	2,420	12	12.23	8,960
N	6.22	279	2	12.55	10,200	4	9.12	2,150		May 18	
12	6.06	242	4	12.68	10,700	12	8.96	1,920	8	12.06	8,380
	April 24		6	12.77	11,000		May 11		4	11.87	7,840
N	6.00	230	8	12.84	11,300	8	8.83	1,750	12	11.67	7,290
12	6.14	260	10	12.86	11,400	4	8.70	1,580		May 19	
	April 25		12	12.87	11,500	12	8.60	1,460	8	11.43	6,680
8	6.40	320		May 2			May 12		4	11.23	6,180
4	6.73	399	4	12.83	11,300	8	8.74	1,630	12	11.13	5,930
12	6.87	441	8	12.72	10,800	4	8.73	1,620		May 20	
	April 26		N	12.54	10,000	12	8.84	1,760	8	11.02	5,680
N	7.05	502	4	12.33	9,320		May 13		4	10.88	5,370
12	7.05	502	8	12.09	8,470	N	8.95	1,910	12	10.71	5,020
	April 27		12	11.86	7,810	12	9.00	1,980		May 21	
N	7.04	499		May 3			May 14		8	10.52	4,640
12	7.03	496	4	11.63	7,180	N	8.97	1,940	4	10.29	4,180
	April 28		8	11.39	6,580	12	8.90	1,840	12	10.04	3,690
4	7.03	496	N	11.16	6,000		May 15			May 22	
8	7.04	499	4	10.94	5,500	2	8.90	1,840	8	9.80	3,230
N	7.05	502	8	10.72	5,040	4	8.90	1,840	4	9.59	2,850
4	7.05	502	12	10.53	4,660	6	8.90	1,840	12	9.41	2,560
8	7.11	524		May 4		8	9.06	2,060		May 23	
12	7.67	765	4	10.76	5,120	10	9.27	2,360	N	9.15	2,190
	April 29		8	11.06	5,770	N	9.36	2,490	12	8.93	1,880
2	7.93	918	N	11.12	5,910	2	9.50	2,700		May 24	
4	8.06	996	4	11.11	5,880	4	9.61	2,890	N	8.73	1,620
6	8.27	1,150	8	11.14	5,960	6	9.72	3,080	12	8.56	1,420
8	8.55	1,410	12	11.14	5,960	8	9.88	3,380		May 25	
10	9.05	2,050		May 5		10	10.03	3,670	N	8.38	1,250
N	9.93	3,480	8	11.06	5,770	12	10.27	4,140	12	8.24	1,130
2	10.76	5,120	4	10.86	5,330		May 16			May 26	
4	11.27	6,280	12	10.74	5,080	2	10.53	4,660	N	8.10	1,020
6	11.50	6,850		May 6		4	10.80	5,200	12	7.95	930
8	11.53	6,920	8	10.68	4,960	6	10.97	5,560		May 27	
10	11.44	6,700	4	10.76	5,120	8	11.08	5,810	N	7.80	840
12	11.32	6,400	12	11.09	5,840	10	11.13	5,930	12	7.66	760
	April 30			May 7		N	11.18	6,050		May 28	
4	11.05	5,740	8	11.35	6,480	2	11.22	6,150	N	7.50	680
8	10.80	5,200	4	11.36	6,500	4	11.27	6,280	12	7.33	607
N	10.67	4,940	12	11.20	6,100	6	11.43	6,680		May 29	
4	10.69	4,980		May 8		8	11.75	7,500	N	7.15	538
8	10.85	5,300	8	10.95	5,520	10	11.95	8,060	12	6.96	471
12	11.16	6,000	4	10.62	4,840	12	12.08	8,440		May 30	
	May 1		12	10.31	4,220		May 17		N	6.80	420
2	11.32	6,400		May 9		4	12.21	8,880	12	6.66	380
4	11.53	6,920	8	10.00	3,610	8	12.26	9,060		May 31	
6	11.77	7,560	4	9.74	3,120	N	12.28	9,130	N	6.49	338
8	11.98	8,140	12	9.51	2,720	4	12.31	9,240	12	6.31	298

Saline Bayou near Clarence, La.

Location.--Lat 31°49'05", long 92°56'55", in SE¼ sec. 26, T. 10 N., R. 6 W., at bridge on U. S. Highway 84, 4.6 miles east of Clarence, and 6.7 miles upstream from mouth.
Drainage area.--1,382 sq mi.
Gage-height record.--Wire-weight gage read twice daily. Auxiliary wire-weight gage 5.3 miles downstream read twice daily. Graph drawn on basis of gage readings for period Apr. 1 to June 25.
Discharge record.--Slope-stage-discharge relation defined by current-meter measurements. Discharge, Apr. 1 to June 3, June 20-28 computed by using fall as determined from auxiliary gage as a factor.
Maxima.--April-June 1953: Discharge, 14,200 cfs 10 p.m. May 19; gage height, 40.46 ft 10 a.m. to 4 p.m. May 21.
1949 to March 1953: Discharge, 7,880 cfs June 8, 1950; gage height, 34.60 ft Feb. 23, 1950.
Remarks.--Some regulation by Saline Lake 4.0 miles above station.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	3,950	4,980	10,100	11	1,340	7,780	7,160	21	990	13,300	2,690
2	3,560	4,980	9,890	12	1,460	7,940	6,900	22	974	12,800	2,340
3	3,270	5,250	9,810	13	1,300	8,390	6,650	23	978	12,000	2,040
4	3,020	5,360	9,700	14	1,210	8,210	6,370	24	1,040	11,400	1,690
5	2,730	5,720	9,240	15	1,210	7,480	6,050	25	1,160	11,100	1,420
6	2,520	6,220	8,840	16	1,140	7,120	5,730	26	1,150	10,800	1,230
7	2,300	6,780	8,390	17	1,010	8,420	5,400	27	1,170	10,400	1,020
8	2,050	7,190	8,080	18	1,030	11,400	4,610	28	1,640	10,300	921
9	1,800	7,360	7,770	19	1,050	13,600	4,040	29	4,190	10,200	1,020
10	1,550	7,620	7,450	20	1,030	13,800	3,190	30	5,060	10,300	949
								31	-	10,300	-
Monthly mean discharge, in cubic feet per second									1,896	8,981	5,356
Runoff, in acre-feet									112,800	552,200	318,700
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		N	25.50	4,200		May 10		8	39.64	13,400
12	12.60	984	2	25.95	4,360	N	33.71	7,620	N	39.80	13,700
N	12.50	972	4	26.35	4,510	12	33.61	7,740	2	39.86	13,800
12	12.35	970	6	26.69	4,640		May 11		4	39.93	14,000
	April 23		8	26.95	4,780	N	33.43	7,800	6	39.99	14,100
N	12.21	980	10	27.15	4,850	12	33.23	7,790	8	40.04	14,100
12	12.04	984	12	27.35	4,910		May 12		10	40.09	14,200
	April 24			April 30		N	33.15	7,890	12	40.11	14,000
N	12.09	1,040	4	27.70	5,130	12	33.25	8,200		May 20	
12	12.29	1,110	8	28.00	5,050		May 13		N	40.29	13,900
	April 25		N	28.27	5,050	N	33.35	8,460	12	40.40	13,600
N	12.43	1,170	4	28.53	5,090	12	33.32	8,450		May 21	
12	12.54	1,200	8	28.75	5,080		May 14		N	40.46	13,300
	April 26		12	28.92	5,070	N	33.27	8,210	12	40.45	13,100
N	12.63	1,150		May 1		12	33.45	7,980		May 22	
12	12.65	1,100	8	29.25	4,970		May 15		N	40.42	12,800
	April 27		4	29.63	4,970	8	33.61	7,600	12	40.37	12,600
4	12.66	1,100	12	29.95	4,950	4	33.74	7,280		May 23	
8	12.67	1,090		May 2		12	33.92	7,110	N	40.26	12,000
N	12.79	1,130	N	30.42	4,950		May 16		12	40.14	11,600
4	12.99	1,190	12	30.95	5,070	4	34.01	7,040		May 24	
8	13.35	1,280		May 3		8	34.12	6,980	N	39.99	11,400
12	13.85	1,390	N	31.42	5,130	N	34.29	7,030	12	39.87	11,300
	April 28		12	31.95	5,270	4	34.44	7,150		May 25	
2	14.05	1,410		May 4		8	34.65	7,280	N	39.70	11,100
4	14.30	1,460	N	32.48	5,400	12	34.92	7,330	12	39.51	11,000
6	14.52	1,490	12	32.79	5,360		May 17			May 26	
8	14.70	1,470		May 5		4	35.14	6,970	N	39.29	10,800
10	14.88	1,460	N	33.19	5,720	8	35.69	7,400	12	39.00	10,500
N	15.02	1,390	12	33.54	6,090	N	36.35	8,180		May 27	
2	15.17	1,300		May 6		4	37.01	9,050	N	38.74	10,300
4	15.32	1,220	N	33.77	6,100	8	37.58	10,000	12	38.49	10,300
6	15.60	1,220	12	33.92	6,580	12	37.91	10,500		May 28	
8	16.55	1,670		May 7			May 18		N	38.21	10,300
10	19.00	2,980	N	34.01	6,770	4	38.16	10,700	12	37.89	10,200
12	21.05	3,950	12	34.05	7,000	8	38.40	11,000		May 29	
	April 29			May 8		N	38.59	11,300	N	37.57	10,200
2	22.05	3,970	N	34.05	7,230	4	38.82	11,600	12	37.22	10,300
4	22.75	3,630	12	33.98	7,290	8	39.03	12,000		May 30	
6	23.45	3,340		May 9		12	39.25	12,500	N	36.89	10,300
8	24.22	3,590	N	33.87	7,340		May 19		12	36.51	10,300
10	24.95	3,950	12	33.77	7,490	4	39.45	12,900		May 31	
									N	36.10	10,300
									12	35.62	10,300

Natachie Creek near Montgomery, La.

Location.--Lat 31°41'15", long 92°52'40", in SE¼NE¼ sec. 9, T. 8 N., R. 5 W., at bridge on State Highway C-1479 and 1.5 miles northeast of Montgomery. Datum of gage is 107.43 ft above mean sea level, datum of 1929 (Louisiana Geodetic Survey benchmark).
Drainage area.--47 sq mi, approximately.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 10,500 cfs 8 p.m. May 17 (gage height, 14.63 ft).
1942 to March 1953: Discharge 6,620 cfs Apr. 1, 1945 (gage height, 12.6 ft, from floodmark).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	54	710	57	11	27	98	28	21	12	507	7.4
2	50	403	52	12	26	287	25	22	11	339	5.7
3	47	276	49	13	25	1,780	22	23	9.6	239	5.9
4	44	496	46	14	22	915	20	24	11	169	4.4
5	41	839	43	15	21	545	18	25	15	134	3.4
6	40	480	41	16	20	567	16	26	13	112	2.9
7	38	267	38	17	18	6,830	14	27	12	97	2.1
8	35	166	34	18	17	6,200	13	28	200	86	3.9
9	33	126	32	19	15	2,110	11	29	6,510	76	8.1
10	30	107	30	20	13	906	8.9	30	2,660	68	3.9
								31	-	62	-
Monthly mean discharge, in cubic feet per second									336	839	21.7
Runoff, in acre-feet									19,970	51,560	1,290
Runoff, in inches									7.97	20.57	0.51

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22			May 1		4	7.00	298	8	11.24	4,060
12	1.55	11	4	9.11	896	6	7.76	407	10	11.03	3,670
N	1.55	11	8	8.86	770	8	8.16	495	12	10.85	3,340
12	1.51	9.8	N	8.68	681	10	8.86	770		May 19	
	April 23		4	8.49	596	12	9.38	1,070	4	10.57	2,820
N	1.50	9.6	8	8.32	536		May 13		8	10.36	2,430
12	1.49	9.4	12	8.16	495	4	10.00	1,780	N	10.15	2,040
	April 24			May 2		8	10.09	1,930	4	9.92	1,660
N	1.52	10	8	7.87	429	N	10.16	2,060	8	9.74	1,410
12	1.67	14	4	7.55	370	4	10.09	1,930	12	9.59	1,240
	April 25		12	7.22	324	8	9.96	1,720		May 20	
N	1.76	16		May 3		12	9.75	1,420	4	9.43	1,100
12	1.66	14	8	6.92	290		May 14		8	9.26	986
	April 26		4	6.60	259	4	9.56	1,210	N	9.10	890
N	1.64	13	12	6.28	233	8	9.31	1,020	4	8.92	800
12	1.61	12		May 4		N	9.03	855	8	8.76	720
	April 27		4	6.28	233	4	8.78	730	12	8.60	645
N	1.60	12	8	7.58	374	8	8.64	663		May 21	
12	1.54	11	N	7.94	443	12	8.52	609	8	8.31	533
	April 28		4	8.55	622		May 15		4	8.03	462
N	1.50	9.6	8	8.91	795	8	8.36	548	12	7.77	409
4	1.50	9.6	12	8.89	785	4	8.24	515		May 22	
6	1.49	9.4		May 5		12	8.32	536	8	7.45	355
8	3.00	55	8	9.15	920		May 16		4	7.16	316
10	9.40	1,080	4	9.05	865	4	8.28	525	12	6.84	282
12	10.31	2,340	12	8.68	681	8	8.29	528		May 23	
	April 29			May 6		N	8.26	520	8	6.54	254
2	11.35	4,260	8	8.24	515	4	8.19	502	4	6.16	224
4	11.89	5,270	4	7.80	415	8	8.11	482	12	5.75	195
6	12.31	6,070	12	7.35	341	10	8.50	600		May 24	
8	12.80	7,000		May 7		12	9.88	1,600	8	5.43	176
10	13.22	7,800	N	6.66	264		May 17		4	5.14	160
N	13.33	8,010	12	5.83	200	2	10.92	3,470	12	4.89	146
1	13.34	8,030		May 8		4	11.82	5,140		May 25	
2	13.32	7,990	N	5.18	162	6	12.14	5,750	N	4.63	134
4	13.18	7,720	12	4.73	138	8	12.10	5,670	12	4.36	120
6	12.95	7,280		May 9		10	12.09	5,650		May 26	
8	12.66	6,730	N	4.46	125	N	12.08	5,630	N	4.19	112
10	12.33	6,110	12	4.24	114	2	12.25	5,960	12	4.03	104
12	12.00	5,480		May 10		4	13.60	8,520		May 27	
	April 30		N	4.10	107	6	14.44	10,100	N	3.90	97
2	11.67	4,860	12	3.96	100	8	14.63	10,500	12	3.76	90
4	11.32	4,210		May 11		10	14.39	10,000		May 28	
6	11.01	3,630	N	3.87	96	12	14.11	9,490	N	3.67	86
8	10.76	3,170	12	3.77	90		May 18		12	3.56	80
10	10.53	2,740		May 12		2	13.82	8,940		May 29	
N	10.34	2,390	2	3.76	90	4	13.57	8,460	N	3.48	76
2	10.13	2,000	4	3.90	97	6	13.27	7,890	12	3.39	72
4	9.94	1,690	6	4.11	108	8	12.95	7,280		May 30	
6	9.80	1,490	8	4.30	117	10	12.64	6,700	N	3.32	69
8	9.65	1,300	10	4.51	128	N	12.31	6,070	12	3.23	64
10	9.52	1,180	N	4.98	151	2	12.00	5,480		May 31	
12	9.38	1,070	2	5.95	208	4	11.71	4,940	N	3.18	62
						6	11.47	4,490	12	3.10	59

Little Sandy Creek at Kisatchie, La.

Location.--Lat 31°24'30", long 93°10'15", in SE¼ sec. 15, T. 5 N., R. 8 W., on State Highway 39, 0.5 mile south of Kisatchie and 2 miles upstream from mouth. Datum of gage is 204.44 ft above mean sea level, datum of 1929.
Drainage area.--21.4 sq mi.
Gage-height record.--Water-stage recorder graph except May 6-12, 20-22 computed on basis of once-daily wire-weight gage readings.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 3,200 cfs and extended to peak stage. Shifting-control method used Apr. 1-23, Apr. 30 to May 16, May 19 to June 30.
Maxima.--April-June 1953: Discharge, 5,880 cfs 11 a.m. Apr. 29 (gage height, 15.36 ft).
1949 to March 1953: Discharge, 5,590 cfs June 3, 1950 (gage height, 15.00 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	18	165	8.3	11	10	33	4.0	21	6.6	56	3.2
2	17	127	7.6	12	13	99	3.9	22	6.6	41	3.2
3	16	108	6.6	13	14	368	3.8	23	6.3	34	3.3
4	15	791	6.3	14	11	136	3.7	24	13	25	3.2
5	15	163	6.0	15	10	192	3.5	25	14	22	3.2
6	15	83	5.5	16	9.4	257	3.5	26	8.3	19	3.5
7	14	63	5.2	17	8.3	2,390	3.4	27	6.6	16	3.2
8	13	54	4.6	18	7.6	1,150	3.3	28	29	14	65
9	12	46	4.3	19	7.3	264	3.3	29	3,330	13	79
10	10	38	4.3	20	7.0	89	3.2	30	261	10	33
								31	-	9.4	-
Monthly mean discharge, in cubic feet per second									131	222	9.80
Runoff, in acre-feet									7,780	13,660	583
Runoff, in inches									6.82	11.97	0.51

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 27		12	3.34	192		May 11			May 17	
12	1.80	6.3		May 1		N	2.29	33	1	9.90	2,350
	April 28		8	3.24	174	12	2.26	31	2	11.60	3,270
2	1.80	6.3	4	3.15	157		May 12		3	12.45	3,770
4	1.80	6.3	12	3.05	139	2	2.25	30	4	12.90	4,040
6	1.80	6.3		May 2		4	2.25	30	5	12.90	4,040
8	1.80	6.3	N	2.99	129	6	2.24	29	6	12.50	3,800
10	1.80	6.3	12	2.88	110	8	2.24	29	7	11.85	3,420
N	1.80	6.3		May 3		10	2.23	28	8	10.75	2,790
2	1.80	6.3	N	2.85	105	N	2.23	28	9	8.80	1,830
4	1.80	6.3	12	2.90	113	2	2.22	28	10	6.67	1,050
6	1.88	9.0		May 4		4	2.22	28	11	5.36	660
8	4.80	509	2	3.08	145	6	2.22	28	N	4.90	535
10	8.64	1,760	4	3.35	194	8	2.45	49	1	4.92	540
12	9.68	2,250	6	6.23	918	10	4.36	402	2	5.87	810
	April 29		8	8.18	1,510	12	6.40	969	3	7.30	1,250
1	10.08	2,440	10	8.75	1,810		May 13		4	8.40	1,650
2	10.80	2,820	N	7.66	1,370	4	5.15	602	5	9.21	2,020
3	11.16	3,020	2	6.78	1,090	8	4.82	514	6	10.45	2,630
4	11.40	3,160	4	6.00	849	N	3.75	270	7	10.82	2,830
5	11.65	3,300	6	4.85	522	4	3.23	172	8	11.05	2,950
6	12.25	3,650	8	4.31	390	8	2.94	120	9	11.10	2,990
7	13.18	4,220	10	3.95	310	12	2.74	88	10	11.12	3,000
8	14.00	4,800	12	3.72	264		May 14		11	11.00	2,930
9	14.74	5,380		May 5		4	2.60	67	12	10.68	2,750
10	15.26	5,800	6	3.35	194	8	2.74	88		May 18	
11	15.36	5,880	N	3.12	152	N	2.90	152	2	9.28	2,050
N	15.30	5,830	6	2.95	122	4	2.71	83	4	7.63	1,360
1	15.12	5,690	12	2.84	104	8	3.28	181	6	7.06	1,170
2	14.76	5,400		May 6		12	4.34	397	8	7.66	1,370
3	14.10	4,880	N	2.68	79		May 15		10	7.63	1,350
4	13.26	4,270	12	2.61	69	4	3.78	276	N	6.47	991
5	11.90	3,450		May 7		8	3.15	157	2	5.57	720
6	10.00	2,400	N	2.57	63	N	3.11	150	4	5.03	568
7	7.79	1,420	12	2.53	58	4	2.98	127	6	5.36	660
8	6.30	939		May 8		8	2.82	100	8	6.29	936
9	5.58	723	N	2.49	54	12	3.84	288	10	6.33	948
10	5.14	599	12	2.44	48		May 16		12	5.20	615
11	4.85	522		May 9		4	3.78	276		May 19	
12	4.60	459	N	2.41	45	8	3.13	154	6	3.91	302
	April 30		12	2.37	41	N	2.87	108	N	3.54	229
4	3.92	304		May 10		4	2.72	85	6	3.14	155
8	3.73	266	N	2.34	38	8	2.68	79	12	2.95	122
N	3.59	239	12	2.31	35	12	8.03	1,510		May 20	
4	3.49	220							N	2.73	86
8	3.44	211							12	2.60	67

Hemphill Creek near Hot Wells, La.

Location.--Lat 31°17'50", long 92°44'10", in SE¼NW¼ sec. 25, T. 4 N., R. 4 W., on highway bridge, a quarter of a mile upstream from Dyer Creek and 3¼ miles southwest of Hot Wells.
Drainage area.--18.0 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 3,900 cfs and extended to peak stage. Backwater from Red River May 19 to June 3.
Maxima.--April-June 1953: Discharge, 8,320 cfs 10 a.m. Apr. 29 (gage height, 15.51 ft).
1948 to March 1953: Discharge, 3,970 cfs Feb. 15, 1950 (gage height, 12.40 ft).
Remarks.--Flood runoff not affected by artificial storage. During periods of high flow, there is an interchange with Dyer Creek above the station.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	14	57	24	11	10	22	17	21	9.4	46	15
2	13	34	23	12	11	33	17	22	9.4	40	15
3	13	83	22	13	12	470	16	23	9.5	37	15
4	12	1,210	21	14	11	74	16	24	19	34	14
5	12	283	20	15	11	305	16	25	54	32	15
6	12	50	20	16	10	671	16	26	15	31	15
7	12	34	19	17	10	1,030	16	27	11	30	14
8	12	28	19	18	10	2,050	15	28	11	28	21
9	11	25	18	19	9.5	400	15	29	3,630	27	18
10	11	23	18	20	9.4	60	15	30	171	26	15
								31	-	25	-
Monthly mean discharge, in cubic feet per second									139	235	17.3
Runoff, in acre-feet									-	-	-
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		12	1.90	10	2	4.35	104	12	8.04	461
12	1.82	9.5		April 28		4	4.24	97		May 4	
4	1.82	9.5	4	1.89	10	6	4.14	91	2	8.91	653
8	1.83	9.6	8	1.89	10	8	4.05	86	4	9.46	886
N	2.05	12	N	1.88	10	10	3.96	81	6	9.69	1,030
4	2.23	16	4	1.87	10	12	3.90	78	8	9.76	1,080
8	2.77	31	8	1.88	10		May 1		10	9.64	998
12	3.70	67	12	2.35	19	4	3.74	69	N	9.88	1,170
	April 25			April 29		8	3.59	62	2	10.04	1,300
1	3.86	75	1	4.10	89	N	3.47	56	4	10.31	1,540
2	4.00	83	2	7.35	372	4	3.34	51	6	10.54	1,770
3	4.14	91	3	8.82	626	8	3.22	46	8	10.49	1,720
4	4.30	101	4	9.37	835	12	3.12	42	10	10.27	1,500
5	4.40	107	5	10.20	1,440		May 2		12	9.88	1,170
6	4.36	105	6	12.20	3,710	N	2.85	33		May 5	
7	4.20	95	7	13.25	5,100	12	2.72	29	2	9.34	820
8	3.96	81	8	13.97	6,110		May 3		4	8.52	550
9	3.73	68	9	14.70	7,130	1	2.70	29	6	7.26	383
10	3.50	58	10	15.51	8,320	2	2.69	28	8	6.23	257
11	3.31	49	11	15.32	8,030	3	2.68	28	10	5.44	186
N	3.17	44	N	14.85	7,340	4	2.68	28	N	4.90	142
1	3.03	39	1	14.32	6,800	5	2.67	28	2	4.59	120
2	2.91	35	2	13.85	6,940	6	2.66	27	4	4.32	102
3	2.82	32	3	13.39	5,300	7	2.65	27	6	4.12	90
4	2.74	30	4	12.97	4,710	8	2.65	27	8	3.95	80
5	2.67	28	5	12.38	3,940	9	2.64	27	10	3.80	72
6	2.60	26	6	11.80	3,190	10	2.64	27	12	3.69	66
7	2.55	24	7	11.34	2,630	11	2.63	27		May 6	
8	2.50	23	8	10.80	2,030	N	2.62	26	6	3.45	55
9	2.46	22	9	10.30	1,530	1	2.62	26	N	3.30	49
10	2.42	21	10	9.75	1,080	2	2.61	26	6	3.15	43
11	2.38	20	11	9.20	755	3	2.60	26	12	3.01	39
12	2.35	19	12	8.65	582	4	2.63	27		May 7	
	April 26			April 30		5	2.90	35	8	2.92	36
6	2.22	16	2	7.55	396	6	3.52	58	4	2.84	33
N	2.14	14	4	6.50	283	7	4.32	102	12	2.76	30
6	2.07	13	6	5.47	198	8	5.32	176		May 8	
12	2.01	12	8	5.00	150	9	6.12	247	N	2.69	28
	April 27		10	4.70	128	10	6.78	311	12	2.61	26
N	1.94	11	N	4.50	114	11	7.41	379		May 9	
									N	2.58	25

Hemphill Creek near Hot Wells, La.--Continued

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
12	2.51	23	10	5.19	165	6	9.68	1,030	9	9.78	1,100
	May 10		12	4.48	113	8	10.00	1,270	10	10.73	1,960
N	2.49	23		May 14		10	9.95	1,230	11	11.86	3,270
12	2.51	23	2	4.05	86	N	9.69	1,030	12	12.43	4,010
	May 11		4	3.78	71	2	9.25	778		May 18	
N	2.45	22	6	3.63	64	4	8.35	515	1	12.48	4,070
12	2.41	20	8	3.51	58	6	7.09	344	2	12.23	3,750
	May 12		10	3.41	54	8	6.01	237	3	11.95	3,380
2	2.40	20	N	3.34	51	10	5.20	166	4	11.67	3,020
4	2.40	20	2	3.28	48	12	4.75	132	5	11.43	2,740
6	2.39	20	4	3.22	46		May 17		6	11.20	2,470
8	2.39	20	6	3.63	64	1	4.67	126	7	10.97	2,220
10	2.39	20	8	4.06	87	2	5.92	229	8	10.80	2,030
N	2.38	20	10	4.61	122	3	7.28	365	9	10.75	1,980
2	2.37	19	12	5.03	152	4	8.20	485	10	10.73	1,960
4	2.36	19		May 15		5	8.60	570	11	10.73	1,960
6	2.35	19	2	5.52	193	6	8.95	665	N	10.74	1,970
8	2.35	19	4	5.70	209	7	9.45	880	1	10.70	1,930
10	4.20	95	6	5.66	205	8	10.02	1,290	2	10.64	1,870
12	5.58	198	8	5.78	216	9	10.27	1,500	3	10.51	1,740
	May 13		10	5.94	231	10	10.25	1,480	4	10.40	1,630
2	6.69	302	N	6.53	286	11	10.10	1,350	5	10.28	1,510
4	7.87	437	2	7.35	372	N	9.90	1,190	6	10.12	1,370
6	8.60	570	4	7.93	445	1	9.70	1,040	7	9.97	1,250
8	9.01	684	6	8.10	470	2	9.48	898	8	9.80	1,110
10	9.19	751	8	7.60	402	3	9.25	778	9	9.65	1,000
N	9.23	768	10	7.22	358	4	8.95	665	10	9.53	928
2	9.01	684	12	7.55	396	5	8.68	590	11	9.47	892
4	8.35	515		May 16		6	8.83	629	12	9.43	868
6	7.25	362	2	8.31	507	7	9.20	755			
8	6.16	250	4	9.00	680	8	9.46	886			

Red River at Alexandria, La.

Location.--Lat 31°18'46", long 92°26'34", in SE¼ sec. 10, T. 4 N., R. 1 W., on U. S. Highway 165 between Alexandria and Pineville, 1.7 miles downstream from Bayou Rigolette. Datum of gage is 44.26 ft above mean sea level, datum of 1929, supplementary adjustment of 1941, or 44.18 ft above mean Gulf level, datum of Mississippi River Commission (levels by Corps of Engineers).

Drainage area.--67,500 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

Gage-height record.--Wire-weight gage read twice daily.

Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used Apr. 1 to June 30.

Maxima.--April-June 1953: Discharge, 193,000 cfs May 19; gage height, 42.05 ft 4 p.m. May 24.

1928 to March 1953: Discharge, 233,000 cfs Apr. 17, 1945 (gage height, 45.23 ft), result of discharge measurement.

Remarks.--Base data collected and computation of records by Corps of Engineers; occasional discharge measurements and records reviewed by Geological Survey.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	47,300	130,000	140,000	11	55,500	113,000	45,500	21	33,600	185,000	19,200
2	43,000	136,000	130,000	12	62,300	115,000	41,300	22	32,200	179,000	17,400
3	38,100	140,000	119,000	13	64,800	119,000	38,100	23	30,600	174,000	15,800
4	34,300	146,000	107,000	14	59,900	123,000	35,400	24	29,000	172,000	14,600
5	31,900	152,000	95,200	15	56,500	133,000	32,900	25	28,100	171,000	13,300
6	31,200	157,000	83,500	16	50,900	145,000	30,600	26	29,000	170,000	12,000
7	31,600	150,000	74,600	17	46,900	160,000	28,400	27	31,200	167,000	11,200
8	31,900	140,000	63,800	18	43,400	180,000	25,800	28	41,300	164,000	10,800
9	32,200	131,000	56,000	19	39,700	192,000	23,500	29	77,700	160,000	10,600
10	40,100	123,000	50,400	20	36,200	189,000	21,300	30	118,000	154,000	10,400
								31	-	148,000	-
Monthly mean discharge, in cubic feet per second									44,280	152,200	45,920
Runoff, in thousand acre-feet									2,635	9,358	2,732
Runoff, in inches									-	-	-

Bayou Bartholomew near Beekman, La.

Location.--Lat 32°52'20", long 91°52'04", in NW¼NW¼ sec. 28, T. 22 N., R. 6 E., at bridge on State Highway 204 and 4 miles south of Beekman. Datum of gage is 70.60 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Drainage area.--1,645 sq mi.

Gage-height record.--Wire-weight read twice daily. Graph drawn on basis of gage readings for period Apr. 23 to May 31.

Discharge record.--Stage-discharge relation defined by current-meter measurements.

Maxima.--April-June 1953: Discharge, 8,540 cfs 4 p.m. May 20 (gage height, 25.09 ft). 1928-29, 1938 to March 1953: Discharge, 10,400 cfs Feb. 12, 1946 (gage height, 27.23 ft).

A stage of 26.75 ft (from floodmark) occurred on Apr. 17, 1927 (affected by overflow from Mississippi River). A discharge of 12,400 cfs (gage height, 25.78 ft) was measured by Corps of Engineers Jan. 12, 1932.

Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	4,100	5,190	7,150	11	3,980	6,220	6,660	21	3,150	8,500	5,660
2	4,090	5,730	7,080	12	4,080	6,080	6,620	22	3,050	8,350	5,440
3	4,100	6,000	7,060	13	4,240	5,980	6,560	23	2,970	8,200	5,180
4	4,100	6,180	7,000	14	4,130	6,110	6,490	24	2,910	8,070	4,880
5	4,110	6,280	6,970	15	3,970	6,510	6,410	25	2,920	7,910	4,580
6	4,120	6,410	6,940	16	3,790	7,250	6,310	26	2,920	7,760	4,220
7	4,110	6,520	6,880	17	3,650	7,780	6,220	27	2,980	7,630	3,900
8	4,090	6,570	6,830	18	3,530	8,180	6,120	28	3,080	7,490	3,550
9	4,070	6,540	6,770	19	3,380	8,430	5,990	29	3,520	7,380	3,240
10	4,010	6,400	6,710	20	3,260	8,530	5,840	30	4,380	7,300	3,000
								31	-	7,210	-
Monthly mean discharge, in cubic feet per second									3,693	7,055	5,875
Runoff, in acre-feet									219,700	433,800	349,600
Runoff, in inches									2.50	4.94	3.98

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		4	20.23	5,800	12	20.92	6,140	12	25.07	8,530
12	13.78	3,000	12	20.42	5,890		May 12			May 21	
N	13.67	2,970		May 3		N	20.78	6,070	N	25.05	8,520
12	13.53	2,940	8	20.58	5,970	12	20.69	6,020	12	24.90	8,430
	April 24		4	20.72	6,040		May 13			May 22	
N	13.44	2,900	12	20.84	6,100	N	20.61	5,980	N	24.77	8,350
12	13.47	2,910		May 4		12	20.53	5,940	12	24.64	8,270
	April 25		N	21.00	6,180		May 14			May 23	
N	13.51	2,920	12	21.11	6,240	8	20.78	6,070	N	24.54	8,210
12	13.51	2,920		May 5		4	20.98	6,170	12	24.40	8,130
	April 26		N	21.20	6,280	12	21.10	6,230		May 24	
N	13.49	2,920	12	21.32	6,340		May 15		N	24.31	8,080
12	13.56	2,940		May 6		8	21.21	6,280	12	24.19	8,000
	April 27		N	21.44	6,410	4	21.81	6,620		May 25	
N	13.69	2,980	12	21.55	6,470	12	22.54	7,010	N	24.04	7,900
12	13.83	3,020		May 7			May 16		12	23.92	7,840
	April 28		N	21.63	6,520	8	22.92	7,240		May 26	
8	13.91	3,040	12	21.70	6,550	4	23.02	7,300	N	23.78	7,760
4	14.06	3,090		May 8		12	23.22	7,420	12	23.68	7,700
12	14.30	3,170	4	21.72	6,560		May 17			May 27	
	April 29		8	21.73	6,570	8	23.71	7,720	N	23.57	7,630
8	14.84	3,370	N	21.74	6,570	4	24.00	7,890	12	23.45	7,560
4	15.55	3,650	4	21.74	6,570	12	24.23	8,030		May 28	
12	16.21	3,920	6	21.75	6,580		May 18		N	23.34	7,490
	April 30		8	21.74	6,570	8	24.42	8,140	12	23.24	7,430
8	16.95	4,240	12	21.73	6,570	4	24.59	8,240		May 29	
4	17.60	4,530		May 9		12	24.71	8,320	N	23.16	7,390
12	18.21	4,820	N	21.68	6,540		May 19		12	23.07	7,330
	May 1		12	21.59	6,490	8	24.85	8,400		May 30	
8	18.79	5,100		May 10		4	24.96	8,470	N	23.02	7,300
4	19.22	5,310	N	21.41	6,400	12	25.01	8,500	12	22.94	7,250
12	19.64	5,510	12	21.24	6,300		May 20			May 31	
	May 2			May 11		8	25.06	8,530	N	22.87	7,210
8	20.03	5,700	N	21.09	6,220	4	25.09	8,540	12	22.82	7,180

Bayou D'Arbonne near Dubach, La.

Location.--Lat 32°40'50", long 92°39'10", in SW¼NW¼ sec. 35, T. 20 N., R. 3 W., at bridge on U. S. Highway 167 and 1½ miles south of Dubach. Datum of gage is 83.25 ft above mean sea level, datum of 1929 (levels by Louisiana Department of Public Works).
Drainage area.--355 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used June 11-30.
Maxima.--April-June 1953: Discharge, 9,410 cfs 1 a.m. May 1 (gage height, 20.09 ft).
1940 to March 1953: Discharge, 23,400 cfs Apr. 2, 1945 (gage height, 22.83 ft).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	381	7,920	166	11	215	1,120	46	21	180	2,530	8.5
2	316	4,180	145	12	467	968	43	22	164	1,960	7.0
3	268	2,510	126	13	804	1,200	39	23	152	1,590	5.9
4	238	2,240	107	14	744	2,230	39	24	157	1,200	5.2
5	214	4,790	96	15	437	5,000	39	25	286	807	4.8
6	245	5,890	86	16	398	7,420	34	26	492	542	4.5
7	348	3,790	75	17	346	6,480	25	27	534	403	4.1
8	348	2,470	66	18	278	5,780	18	28	590	317	5.2
9	314	1,900	57	19	231	4,930	14	29	1,470	264	5.2
10	274	1,490	50	20	203	3,670	11	30	5,880	224	4.8
								31	-	193	-
Monthly mean discharge, in cubic feet per second									566	2,774	44.6
Runoff, in acre-feet									33,670	170,600	2,650
Runoff, in inches									1.78	9.01	0.14

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		N	19.29	6,140		May 9		4	19.68	7,710
12	6.39	171	2	19.58	7,270	N	15.55	1,890	8	19.64	7,530
N	6.33	164	4	19.75	8,000	12	14.65	1,690	12	19.56	7,190
12	6.27	157	6	19.89	8,560		May 10			May 17	
	April 23		8	19.99	9,000	N	13.72	1,490	8	19.39	6,510
N	6.22	151	10	20.04	9,210	12	12.78	1,300	4	19.30	6,170
12	6.18	147	12	20.08	9,370		May 11		12	19.34	6,320
	April 24			May 1		8	12.18	1,190		May 18	
N	6.23	152	1	20.09	9,410	4	11.44	1,050	N	19.16	5,700
12	6.44	177	4	20.07	9,330	12	10.72	918	12	19.06	5,400
	April 25		8	19.96	8,870		May 12			May 19	
8	6.76	214	N	19.77	8,080	4	10.70	914	N	18.90	4,970
4	7.57	332	4	19.58	7,270	8	10.84	940	12	18.63	4,370
12	8.19	446	8	19.37	6,440	N	11.09	987		May 20	
	April 26		12	19.14	5,640	4	11.15	998	N	18.21	3,660
8	8.44	493		May 2		8	11.15	998	12	17.68	2,980
4	8.50	504	8	18.69	4,490	12	11.30	1,030		May 21	
12	8.53	510	4	18.23	3,700		May 13		N	17.10	2,480
	April 27		12	17.76	3,070	4	11.64	1,090	12	16.48	2,170
8	8.61	525		May 3		8	12.03	1,160		May 22	
4	8.70	541	8	17.30	2,630	N	12.35	1,220	N	15.82	1,950
12	8.80	560	4	16.80	2,320	4	12.59	1,270	12	15.06	1,780
	April 28		12	16.31	2,100	8	12.78	1,300		May 23	
4	8.87	573		May 4		12	13.03	1,350	N	14.20	1,590
8	8.91	581	4	16.09	2,020		May 14		12	13.27	1,400
N	8.96	590	8	16.40	2,140	2	13.19	1,380		May 24	
4	9.00	597	N	16.52	2,190	4	13.38	1,420	N	12.30	1,210
8	9.01	599	4	16.77	2,300	6	13.70	1,480	12	11.15	998
12	9.25	644	8	17.03	2,440	8	14.20	1,590		May 25	
	April 29		12	17.31	2,640	10	14.70	1,700	N	10.07	796
2	10.40	858		May 5		N	15.35	1,840	12	9.22	638
4	11.00	970	4	17.70	3,000	2	16.11	2,020		May 26	
6	11.80	1,120	8	18.12	3,530	4	16.92	2,380	N	8.67	536
8	12.68	1,280	N	18.72	4,550	6	17.62	2,920	12	8.25	458
10	13.50	1,440	4	19.25	6,000	8	18.09	3,490		May 27	
N	14.09	1,570	8	19.48	6,870	10	18.32	3,830	N	7.95	402
2	14.52	1,660	12	19.49	6,910	12	18.46	4,060	12	7.68	351
4	14.98	1,760		May 6			May 15			May 28	
6	15.29	1,830	8	19.33	6,280	4	18.61	4,330	N	7.48	316
8	15.58	1,900	4	19.12	5,570	8	18.65	4,410	12	7.29	284
10	15.80	1,940	12	18.81	4,750	N	18.90	4,970		May 29	
12	16.10	2,020		May 7		4	19.02	5,290	N	7.16	265
	April 30		N	18.26	3,740	8	19.19	5,800	12	6.97	240
2	16.45	2,160	12	17.63	2,930	12	19.33	6,280		May 30	
4	16.99	2,420		May 8			May 16		N	6.84	224
6	17.73	3,030	N	16.99	2,420	4	19.51	6,990	12	6.69	206
8	18.44	4,030	12	16.32	2,110	8	19.66	7,620		May 31	
10	18.93	5,050				N	19.74	7,960	N	6.58	193
									12	6.46	179

Middle Fork Bayou D'Arbonne near Bernice, La.

Location.--Lat 32°45'50", long 92°39'30", in NE¼SE¼ sec. 34, T. 21 N., R. 3 W., at bridge on U. S. Highway 167 and 4 miles south of Bernice. Datum of gage is 97.09 ft above mean sea level, datum of 1929 (levels by Louisiana Department of Public Works).
Drainage area.--178 sq mi.
Gage-height record.--Water-stage recorder graph except Apr. 9.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Discharge for Apr. 9 estimated on basis of records for nearby stations.
Maxima.--April-June 1953: Discharge, 4,170 cfs 8 a.m. May 1 (gage height, 9.10 ft).
1940 to March 1953: Discharge, 10,500 cfs Mar. 5, 1945 (gage height, 11.45 ft).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	248	3,900	72	11	132	534	15	21	59	1,220	3.2
2	200	2,350	59	12	154	532	15	22	52	888	2.6
3	171	1,320	48	13	158	971	16	23	46	658	2.1
4	148	1,600	39	14	158	2,320	16	24	59	508	1.7
5	130	2,810	32	15	133	3,110	14	25	185	374	1.4
6	146	2,270	28	16	116	3,150	12	26	292	256	1.2
7	163	1,700	24	17	104	2,580	9.1	27	446	188	.9
8	171	1,300	21	18	97	2,360	6.9	28	552	152	.8
9	190	906	20	19	85	2,360	5.5	29	1,190	126	.9
10	169	672	18	20	69	1,680	4.2	30	2,590	106	.9
								31	-	88	-
Monthly mean discharge, in cubic feet per second									280	1,387	16.3
Runoff, in acre-feet									16,690	85,270	973
Runoff, in inches									1.76	8.98	0.10

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		4	8.98	3,910		May 9		12	8.05	2,020
12	2.95	54	8	8.85	3,640	N	7.34	898		May 20	
N	2.89	52	12	8.67	3,260	12	7.21	760	N	7.85	1,660
12	2.84	49		May 2			May 10		12	7.69	1,400
	April 23		8	8.33	2,570	N	7.10	670		May 21	
N	2.78	46	4	8.05	2,020	12	6.98	589	N	7.57	1,220
12	2.74	44	12	7.84	1,650		May 11		12	7.44	1,030
	April 24			May 3		N	6.87	532		May 22	
8	2.75	44	8	7.69	1,400	12	6.75	482	N	7.33	886
4	3.06	61	4	7.56	1,200		May 12		12	7.20	750
12	3.76	101	12	7.45	1,040	8	6.89	540		May 23	
	April 25			May 4		4	6.85	522	N	7.08	656
4	4.31	135	4	7.51	1,120	12	6.97	584	12	6.95	572
8	4.77	166	8	7.66	1,360		May 13			May 24	
N	5.11	191	N	7.73	1,470	8	7.06	642	N	6.82	509
4	5.34	213	4	7.97	1,880	4	7.47	1,070	12	6.63	440
8	5.52	231	8	8.12	2,160	12	7.94	1,820		May 25	
12	5.65	246	12	8.16	2,230		May 14		N	6.40	375
	April 26			May 5		8	8.23	2,370	12	6.07	304
8	5.88	273	2	8.15	2,220	4	8.28	2,470		May 26	
4	6.08	305	4	8.14	2,200	12	8.27	2,450	N	5.72	253
12	6.30	351	6	8.15	2,220		May 15		12	5.36	215
	April 27		8	8.22	2,350	4	8.30	2,510		May 27	
N	6.67	454	10	8.37	2,650	8	8.49	2,890	N	5.04	185
12	6.86	527	N	8.55	3,010	N	8.67	3,260	12	4.76	165
	April 28		2	8.65	3,220	4	8.77	3,470		May 28	
8	6.89	540	4	8.71	3,340	8	8.79	3,510	N	4.57	152
4	6.88	536	6	8.72	3,360	10	8.82	3,570	12	4.37	138
12	7.05	635	8	8.69	3,300	12	8.81	3,550		May 29	
	April 29		10	8.64	3,190		May 16		N	4.18	126
8	7.38	946	12	8.55	3,010	8	8.68	3,280	12	4.01	116
4	7.66	1,360		May 6		4	8.52	2,950		May 30	
12	7.97	1,880	8	8.26	2,430	12	8.49	2,890	N	3.86	107
	April 30		4	8.02	1,970		May 17		12	3.69	96
8	8.07	2,060	12	7.94	1,820	N	8.31	2,530		May 31	
4	8.49	2,890		May 7		12	8.24	2,390	N	3.55	88
12	8.91	3,760	N	7.89	1,730		May 18		12	3.39	78
	May 1		12	7.77	1,530	N	8.19	2,290			
4	9.04	4,040		May 8		12	8.28	2,470			
8	9.10	4,170	N	7.62	1,290		May 19				
N	9.08	4,130	12	7.47	1,070	N	8.28	2,470			

Cornie Bayou near Lillie, La.

Location.--Lat 32°53'15", long 92°39'25", in NE¼NE¼ sec. 22, T. 22 N., R. 3 W., at bridge on U. S. Highway 167 and 3 miles south of Lillie. Datum of gage is 84.08 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--462 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 8,890 cfs 2 a.m. May 16 (gage height, 16.28 ft). 1940 to March 1953: Discharge, 17,200 cfs Mar. 5, 1945 (gage height, 18.20 ft).
Remarks.--Flow slightly regulated by Cornie Lake.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	659	6,790	201	11	352	1,960	44	21	173	3,800	26
2	587	7,790	160	12	485	1,960	45	22	157	2,860	26
3	506	6,430	96	13	558	2,690	42	23	144	2,220	22
4	436	5,480	79	14	526	4,240	38	24	248	1,740	20
5	360	5,450	71	15	468	7,800	34	25	497	1,380	20
6	340	4,520	65	16	386	8,460	32	26	730	1,100	19
7	315	4,300	61	17	296	7,250	31	27	948	868	18
8	286	3,890	55	18	239	6,740	30	28	1,140	688	18
9	2 2	3,040	51	19	210	6,080	28	29	2,040	523	18
10	320	2,340	48	20	189	4,970	27	30	4,190	372	29
								31	-	266	-
Monthly mean discharge, in cubic feet per second									603	3,806	48.5
Runoff, in acre-feet									35,860	234,000	2,880
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22			April 30			May 10		12	15.22	5,520
12	5.17	165	8	14.52	3,790	N	13.54	2,310		May 20	
N	5.03	156	4	14.82	4,490	12	13.34	2,130	N	15.02	4,990
12	4.94	150	12	15.20	5,470		May 11		12	14.78	4,390
	April 23			May 1		N	13.13	1,960		May 21	
N	4.82	143	8	15.54	6,420	12	12.90	1,800	N	14.51	3,770
12	4.74	138	4	15.82	7,280		May 12		12	14.27	3,290
	April 24		12	15.99	7,850	N	13.07	1,920		May 22	
4	4.83	144		May 2		12	13.42	2,200	N	13.99	2,830
8	5.19	166	8	16.03	7,980		May 13		12	13.70	2,470
N	5.97	224	4	15.97	7,780	N	13.88	2,680		May 23	
4	6.80	304	12	15.85	7,380	12	14.23	3,210	N	13.44	2,220
8	7.46	376		May 3			May 14		12	13.14	1,970
12	7.80	416	N	15.57	6,500	8	14.43	3,600		May 24	
	April 25		12	15.15	5,340	4	14.81	4,460	N	12.80	1,730
8	8.15	460		May 4		12	15.42	6,080	12	12.49	1,540
4	8.60	520	N	15.19	5,440		May 15			May 25	
12	9.19	604	12	15.28	5,690	8	15.89	7,510	N	12.12	1,370
	April 26			May 5		4	16.16	8,450	12	11.75	1,220
8	9.70	690	N	15.22	5,520	12	16.26	8,810		May 26	
4	10.14	773	12	15.05	5,070		May 16		N	11.37	1,110
12	10.47	848		May 6		2	16.28	8,890	12	10.94	977
	April 27		N	14.78	4,390	8	16.24	8,740		May 27	
N	10.84	947	12	14.72	4,250	4	16.11	8,270	N	10.53	862
12	11.17	1,050		May 7		12	15.98	7,810	12	10.12	769
	April 28		N	14.76	4,340		May 17			May 28	
8	11.34	1,100	12	14.72	4,250	N	15.78	7,150	N	9.70	690
4	11.56	1,160		May 8		12	15.70	6,890	12	9.20	605
12	11.90	1,280	N	14.58	3,930		May 18			May 29	
	April 29		12	14.36	3,460	N	15.66	6,770	N	8.62	523
8	12.64	1,630		May 9		12	15.58	6,530	12	8.00	441
4	13.51	2,280	N	14.13	3,040		May 19			May 30	
12	14.18	3,130	12	13.82	2,600	N	15.43	6,100	N	7.41	370
									12	6.85	309

Ouachita River at Monroe, La.

Location.--Lat 32°30'19", long 92°07'32", in lot 50, T. 18 N., R. 3 E., on U. S. Highway 80 at Monroe, 0.4 mile upstream from Illinois Central Railroad Bridge and 5½ miles upstream from Lock and Dam No. 4. Datum of gage is 31.40 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).
Drainage area.--15,298 sq mi.
Gage-height record.--Wire-weight gage read once daily.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used Apr. 1 to June 30.
Maxima.--April-June 1953: Discharge, 68,700 cfs May 31, June 1; gage height, 45.94 ft June 1.
1938 to March 1953: Discharge, 100,000 cfs Apr. 12, 1945 (result of discharge measurement); gage height, 50.42 ft Apr. 15, 1945.
The flood of Feb. 2, 3, 1932, reached a stage of 49.7 ft (discharge, 101,000 cfs, estimated).
Remarks.--Base data collected and records computed by Corps of Engineers; occasional discharge measurements and records reviewed by Geological Survey.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	39,400	37,700	68,700	11	39,000	48,900	58,200	21	36,000	61,200	51,000
2	39,600	38,800	68,300	12	38,700	49,500	57,700	22	35,900	63,000	50,100
3	39,800	39,900	67,600	13	38,000	50,100	57,000	23	35,700	64,300	49,200
4	40,200	41,300	66,700	14	37,700	50,800	56,300	24	35,500	65,600	48,200
5	40,200	43,200	65,700	15	37,100	51,700	55,500	25	35,500	66,600	47,000
6	40,200	44,300	64,600	16	37,000	53,100	54,900	26	35,200	67,400	46,200
7	40,000	45,700	63,500	17	36,900	55,000	54,000	27	35,000	67,900	45,200
8	39,900	46,400	62,300	18	36,700	57,000	53,300	28	34,900	68,200	44,300
9	39,700	47,400	61,100	19	36,500	58,600	52,300	29	35,500	68,500	43,200
10	39,200	48,200	59,600	20	36,200	59,900	51,700	30	36,400	68,600	42,700
								31	-	68,700	-
Monthly mean discharge, in cubic feet per second									37,590	54,760	55,540
Runoff, in acre-feet									-	-	-
Runoff, in inches									-	-	-

Boeuf River near Girard, La.

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., at bridge on U. S. Highway 80, and 0.5 mile east of Girard. Datum of gage is 51.62 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).
Gage-height record.--Wire-weight gage read twice daily. Gage heights Apr. 22 to May 31, June 16, 17 from graph based on gage readings. Auxiliary staff gage, 8.1 miles downstream at different datum, read twice daily.
Discharge record.--Slope-stage-discharge relation defined by current-meter measurements. Discharge Apr. 1-15, Apr. 29 to June 30, computed by using fall as determined from auxiliary gage as a factor.
Maxima.--April-June 1953: Discharge, 2,370 cfs 12 noon May 18; gage height, 17.22 ft 4 p.m. May 18.
1938 to March 1953: Discharge, 2,970 cfs Apr. 12, 1947 (gage height, 18.80 ft). Stage known, 29.5 ft May 7, 1927 (affected by overflow from Mississippi River).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,270	1,410	1,280	11	694	1,590	386	21	209	1,980	180
2	1,220	1,420	1,160	12	676	1,560	314	22	196	1,870	179
3	1,180	1,360	1,060	13	693	1,540	423	23	184	1,770	158
4	1,090	1,400	930	14	759	1,510	329	24	184	1,720	195
5	1,020	1,650	823	15	593	1,540	275	25	210	1,660	225
6	943	1,750	727	16	429	1,800	245	26	332	1,580	255
7	873	1,720	670	17	321	2,190	224	27	465	1,560	246
8	813	1,680	543	18	265	2,340	196	28	553	1,520	240
9	757	1,640	512	19	245	2,250	165	29	833	1,470	229
10	715	1,610	404	20	225	2,100	175	30	1,220	1,420	219
								31	-	1,340	-
Monthly mean discharge, in cubic feet per second									639	1,676	432
Runoff, in acre-feet									38,020	103,000	25,720
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22			May 2			May 13		12	16.71	2,170
12	2.30	202	N	10.70	1,430	N	11.85	1,550		May 20	
N	2.26	197	12	10.61	1,390	12	11.79	1,530	N	16.41	2,100
12	2.20	190		May 3			May 14		12	16.10	2,030
	April 23		N	10.47	1,360	N	11.73	1,510		May 21	
N	2.15	184	12	10.37	1,340	12	11.70	1,490	N	15.78	1,980
12	2.10	178		May 4			May 15		12	15.46	1,940
	April 24		N	10.51	1,370	8	11.81	1,510		May 22	
N	2.14	183	12	11.42	1,500	4	12.15	1,550	N	15.14	1,870
12	2.21	191		May 5		12	12.66	1,650	12	14.82	1,800
	April 25		N	12.31	1,670		May 16			May 23	
N	2.30	202	12	12.66	1,750	4	12.91	1,700	N	14.60	1,760
12	2.64	243		May 6		8	13.12	1,740	12	14.42	1,750
	April 26		N	12.83	1,760	N	13.24	1,770		May 24	
N	3.40	338	12	12.85	1,740	4	13.26	1,780	N	14.24	1,720
12	3.96	409		May 7		8	13.75	1,930	12	14.04	1,690
	April 27		N	12.80	1,720	12	14.80	2,140		May 25	
N	4.44	470	12	12.70	1,700		May 17		N	13.87	1,660
12	4.76	512		May 8		4	15.40	2,160	12	13.69	1,610
	April 28		N	12.58	1,680	8	15.77	2,150		May 26	
N	5.06	553	12	12.45	1,650	N	16.04	2,180	N	13.54	1,580
12	5.34	595		May 9		4	16.28	2,190	12	13.46	1,570
	April 29		N	12.39	1,640	8	16.53	2,240		May 27	
8	6.37	762	12	12.28	1,630	12	16.74	2,270	N	13.40	1,570
4	7.42	913		May 10			May 18		12	13.31	1,550
12	8.28	1,050	N	12.21	1,600	4	16.94	2,310		May 28	
	April 30		12	12.15	1,600	8	17.13	2,360	N	13.19	1,520
8	8.95	1,170		May 11		N	17.20	2,370	12	13.07	1,490
4	9.60	1,280	N	12.09	1,590	4	17.22	2,360		May 29	
12	10.02	1,350	12	12.01	1,580	8	17.20	2,340	N	12.96	1,470
	May 1			May 12		12	17.18	2,330	12	12.84	1,440
N	10.50	1,430	N	11.94	1,560		May 19			May 30	
12	10.66	1,440	12	11.88	1,550	N	17.00	2,250	N	12.74	1,430
									12	12.60	1,390
										May 31	
									N	12.39	1,340
									12	12.25	1,300

Bayou LaFourche near Crew Lake, La.

Location.--Lat 32°29'55", long 91°55'05", in SW¼ sec. 36, T. 18 N., R. 5 E., at bridge on U. S. Highway 80 and 2.5 miles west of town of Crew Lake. Datum of gage is 37.08 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Stage discharge relation affected by backwater May 18 to June 30; discharge computed from loop curve based on 5 discharge measurements. Shifting-control method used April 1-7.
Maxima.--April-June 1953: Daily discharge, 12,000 cfs May 18; gage height, 26.56 ft May 18.
1938 to March 1953: Discharge, 16,900 cfs Apr. 13, 1947 (gage height, 28.72 ft, present datum).
A discharge of 17,000 cfs was measured on Dec. 24, 1931, at a stage of 28.22 ft, present datum (from reports of Corps of Engineers, Vicksburg District).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,740	7,880	5,500	11	529	6,210	1,500	21	513	9,000	400
2	1,670	5,810	5,000	12	463	6,150	1,300	22	432	8,200	300
3	1,580	4,250	4,300	13	467	6,170	1,400	23	387	7,600	300
4	1,470	5,950	3,700	14	2,030	6,180	1,200	24	406	7,400	200
5	1,310	9,570	3,200	15	1,490	7,330	1,000	25	798	7,200	200
6	1,220	9,710	2,600	16	1,360	9,870	900	26	1,250	7,000	200
7	1,070	8,690	2,300	17	855	11,600	800	27	1,450	6,800	200
8	968	7,520	2,100	18	759	12,000	700	28	1,540	6,600	150
9	828	6,740	1,900	19	645	11,300	600	29	3,720	6,400	150
10	630	6,400	1,700	20	575	10,200	500	30	8,000	6,200	100
								31	-	5,900	-
Monthly mean discharge, in cubic feet per second									1,338	7,672	1,480
Runoff, in acre-feet									79,650	471,700	88,070
Runoff, in inches									-	--	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22			April 30		6	20.08	4,050		May 11	
12	10.97	459	2	23.46	7,350	8	20.42	4,310	N	22.41	6,180
N	10.82	431	4	23.65	7,580	10	20.87	4,670	12	22.39	6,160
12	10.67	408	6	23.79	7,760	N	21.78	5,550		May 12	
	April 23		8	23.91	7,910	2	22.67	6,470	N	22.38	6,150
N	10.53	387	10	23.99	8,030	4	23.39	7,270	12	22.38	6,150
12	10.37	366	N	24.06	8,120	6	23.85	7,840		May 13	
	April 24		2	24.13	8,220	8	24.15	8,250	N	22.41	6,180
8	10.32	360	4	24.16	8,260	10	24.36	8,560	12	22.39	6,160
4	10.74	418	6	24.20	8,320	12	24.54	8,830		May 14	
12	11.26	517	8	24.21	8,340		May 5		8	22.35	6,120
	April 25		10	24.21	8,340	4	24.77	9,200	4	22.37	6,140
8	11.92	681	12	24.21	8,340	8	24.95	9,500	12	22.62	6,410
4	12.68	913		May 1		N	25.04	9,660		May 15	
12	13.20	1,080	4	24.20	8,320	4	25.12	9,790	4	22.72	6,520
	April 26		8	24.12	8,210	8	25.17	9,880	8	22.84	6,650
N	13.74	1,270	N	23.99	8,030	12	25.18	9,900	N	23.25	7,100
12	14.07	1,380	4	23.78	7,740		May 6		4	23.79	7,760
	April 27		8	23.47	7,360	4	25.19	9,910	8	24.18	8,290
N	14.30	1,460	12	23.10	6,940	8	25.15	9,840	12	24.59	8,910
12	14.41	1,500		May 2		N	25.09	9,740		May 16	
	April 28		4	22.81	6,620	4	25.03	9,640	4	24.88	9,390
N	14.52	1,540	8	22.40	6,170	8	24.97	9,540	8	25.03	9,640
12	14.60	1,570	N	22.03	5,800	12	24.82	9,280	N	25.20	9,930
	April 29		4	21.67	5,440		May 7		4	25.29	10,100
2	14.72	1,610	8	21.25	5,020	8	24.58	8,900	8	25.42	10,300
4	14.92	1,680	12	20.93	4,730	4	24.31	8,480	12	25.73	10,800
6	15.12	1,750		May 3		12	24.04	8,100		May 17	
8	15.55	1,900	4	20.65	4,490		May 8		4	25.93	11,200
10	16.48	2,240	8	20.46	4,340	N	23.57	7,480	8	26.06	11,400
N	18.25	2,950	N	20.27	4,190	12	23.18	7,030	N	26.16	11,600
2	20.00	3,990	4	20.15	4,100		May 9		4	26.26	11,800
4	21.34	5,110	8	20.06	4,030	N	22.90	6,720	8	26.32	11,900
6	22.06	5,830	12	20.03	4,010	12	22.71	6,510	12	26.38	12,000
8	22.55	6,340		May 4			May 10				
10	23.03	6,860	2	20.03	4,010	N	22.61	6,400			
12	23.24	7,090	4	20.06	4,030	12	22.53	6,310			

Big Colewa Bayou near Oak Grove, La.

Location.--Lat 32°47'53", long 91°30'03", in SE¼ sec. 13, T. 21, N., R. 9 E., at bridge on Stage Highway 11 and 8 miles southwest of Oak Grove. Datum of gage is at mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Drainage area.--42 sq mi, approximately.

Gage-height record.--Staff gage read once daily. Graph for Apr. 24, 29 to May 6, 15-21, based on staff-gage readings. No readings May 12, June 7-14.

Discharge record.--Stage-discharge relation defined by current-meter measurements. Discharge for periods of backwater Apr. 29 to May 2, 4-7, 15-21, computed from loop curves based on 3 discharge measurements. Discharge for period of no gage-height record estimated on basis of precipitation records and records for nearby stations.

Maxima.--April-June 1953: Daily discharge, 1,400 cfs May 16; gage height, 92.6 ft May 17. 1949 to March 1953: Discharge, 1,600 cfs Feb. 21, 1953.
Stage known, 95.5 ft (present datum) Apr. 12, 1947, from records of Corps of Engineers.

Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	5.7	500	6.4	11	0	5.7	1	21	0	250	0
2	2.0	200	6.4	12	5.7	2.0		22	0	161	0
3	2.0	61	6.4	13	11	5.7		23	0	33	0
4	0	600	6.4	14	2.0	36		24	156	23	0
5	0	750	6.4	15	2.0	700	0	25	237	19	0
6	0	350	6.4	16	2.0	1,400	0	26	86	14	0
7	0	190		17	0	1,300	0	27	27	14	0
8	0	53	3	18	0	800	0	28	11	14	0
9	0	18		19	0	600	0	29	600	10	0
10	0	5.7	1	20	0	450	0	30	850	6.4	0
								31	-	6.4	-
Monthly mean discharge, in cubic feet per second									66.6	277	1.75
Runoff, in acre-feet									3,970	17,010	104
Runoff, in inches									1.77	7.60	0.05

Tensas River at Tendal, La.

Location.--Lat 32°25'55", long 91°22'00", in NW¼ sec. 29, T. 17 N., R. 11 E., at bridge on U. S. Highway 80 at Tendal. Datum of gage is 49.90 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Gage-height record.--Wire-weight gage read twice daily except Apr. 19 to May 5, when no readings were made. Gage heights May 6-31 from graph based on gage readings. Auxiliary staff gage 8.5 miles downstream, read twice daily.

Discharge record.--Slope-stage discharge relation defined by current-meter measurements. Discharge Apr. 19 to May 5 estimated on basis of highwater mark, precipitation records, and records for nearby stations. Discharge May 6 to June 6 computed by using fall as determined from auxiliary gage as a factor. Shifting-control method used June 13-30.

Maxima.--April-June 1953: Discharge, 2,910 cfs 10 a.m. May 18; gage height, 24.00 ft 4 a.m. May 19.

1938 to March 1953: Discharge, 4,610 cfs Nov. 19, 1948; gage height, 24.78 ft Nov. 20, 1948.

Stage known, 34.02 ft May 15, 1927 (affected by overflow from Mississippi River).

Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	156	1,000	562	11	42	594	171	21	50	2,700	27
2	130	1,000	494	12	45	539	132	22	40	2,680	32
3	109	2,000	476	13	44	601	103	23	40	2,490	33
4	96	2,000	416	14	51	724	77	24	40	2,230	30
5	82	2,000	393	15	65	1,230	59	25	100	2,080	27
6	74	1,760	345	16	72	2,430	45	26	100	1,840	29
7	68	1,410	300	17	68	2,760	39	27	500	1,520	32
8	60	1,090	300	18	62	2,890	36	28	500	1,210	33
9	56	860	266	19	50	2,840	33	29	500	962	39
10	51	690	214	20	50	2,830	30	30	1,000	802	59
								31	-	686	-
Monthly mean discharge, in cubic feet per second									143	1,627	161
Runoff, in acre-feet									8,530	100,100	9,580
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time,

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	May 5			May 14		8	23.18	2,810	12	23.06	2,680
12	18.68	1,980	8	12.41	702	12	23.46	2,860		May 22	
8	18.50	1,780	4	12.69	750		May 18		N	22.80	2,700
4	18.35	1,700	12	13.01	778	2	23.59	2,900	12	22.46	2,620
12	18.02	1,590		May 15		4	23.67	2,880		May 23	
	May 7		2	13.14	754	6	23.74	2,900	N	22.11	2,500
8	17.63	1,470	4	13.31	756	8	23.79	2,900	12	21.74	2,350
4	17.20	1,350	6	13.54	768	9	23.82	2,900		May 24	
12	16.76	1,240	8	13.80	783	10	23.84	2,910	N	21.30	2,200
	May 8		10	14.08	801	11	23.85	2,900	12	20.87	2,180
N	16.08	1,080	N	14.55	918	N	23.86	2,890		May 25	
12	15.46	967	2	15.30	1,160	2	23.89	2,890	N	20.38	2,090
	May 9		4	16.10	1,470	4	23.92	2,890	12	19.87	1,980
N	14.81	853	6	16.96	1,820	6	23.94	2,890		May 26	
12	14.19	766	8	17.45	1,970	8	23.95	2,880	N	19.30	1,840
	May 10		10	17.86	2,100	10	23.96	2,860	12	18.68	1,690
N	13.56	676	12	18.30	2,250	12	23.97	2,840		May 27	
12	13.03	640		May 16			May 19		N	18.02	1,510
	May 11		4	18.94	2,340	4	24.00	2,860	12	17.35	1,350
N	12.46	596	8	19.41	2,400	8	23.98	2,840		May 28	
12	11.95	544	N	20.02	2,470	N	23.95	2,830	N	16.70	1,200
	May 12		4	20.54	2,480	4	23.93	2,840	12	16.06	1,080
8	11.66	534	8	21.02	2,480	8	23.89	2,840		May 29	
4	11.40	542	12	12.53	2,560	12	23.85	2,860	N	15.47	963
12	11.26	538		May 17			May 20		12	14.85	844
	May 13		4	12.95	2,650	N	23.73	2,840		May 30	
8	11.54	574	8	22.33	2,760	12	23.53	2,780	N	14.36	798
4	11.87	628	N	22.66	2,820		May 21		12	13.85	770
12	12.14	663	4	22.92	2,830	N	23.30	2,680		May 31	
									N	13.33	689
									12	12.85	596

Bayou Macon near Delhi, La.

Location.--Lat 32°27'20", long 91°28'30", in SE¼ sec. 18, T. 17 N., R. 10 E., at bridge on U. S. Highway 80, 1 mile east of Delhi. Datum of gage is 50.05 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).
Gage-height record.--Water-stage recorder graph. Auxiliary staff gage 7.5 miles downstream read twice daily.
Discharge record.--Slope-stage-discharge relation defined by current-meter measurements. Discharge Apr. 1 to June 30 computed by using fall as determined from auxiliary gage as a factor. Shifting-control method used June 26-30.
Maxima.--April-June 1953: Discharge, 4,060 cfs 8 p.m. May 17; gage height, 25.88 ft May 20, 21.
1938 to March 1953: Discharge, 5,460 cfs Apr. 14, 1947 (gage height, 25.58 ft). Stage known, 34.6 ft May 10, 11, 1927 (affected by overflow from Mississippi River).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	2,010	2,900	3,290	11	1,450	2,840	2,670	21	1,070	3,550	1,170
2	2,000	2,910	3,260	12	1,410	2,720	2,510	22	1,040	3,460	1,090
3	1,940	2,780	3,240	13	1,370	2,670	2,320	23	1,020	3,420	1,020
4	1,910	2,740	3,190	14	1,350	2,760	2,150	24	1,010	3,400	994
5	1,860	2,980	3,190	15	1,310	3,040	1,980	25	1,040	3,380	919
6	1,800	3,100	3,110	16	1,250	3,620	1,830	26	1,070	3,360	881
7	1,750	3,140	3,050	17	1,210	3,990	1,700	27	1,090	3,330	832
8	1,680	3,100	3,010	18	1,190	3,990	1,550	28	1,100	3,340	796
9	1,580	3,040	2,930	19	1,150	3,880	1,410	29	1,540	3,350	760
10	1,520	2,960	2,830	20	1,110	3,700	1,290	30	2,560	3,330	718
								31	-	3,300	-
Monthly mean discharge, in cubic feet per second									1,446	3,228	1,990
Runoff, in acre-feet									86,060	198,500	118,400
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22			May 1		12	17.99	2,670	12	25.86	3,780
12	7.86	1,050	8	17.56	2,880		May 13			May 20	
N	7.73	1,030	4	17.80	2,930	N	18.24	2,670	N	25.88	3,700
12	7.61	1,040	12	17.94	2,960	12	18.20	2,680	12	25.88	3,630
	April 23			May 2			May 14			May 21	
N	7.50	1,020	N	18.04	2,910	N	18.48	2,760	N	25.87	3,550
12	7.37	996	12	18.00	2,860	12	18.82	2,820	12	25.84	3,480
	April 24			May 3			May 15			May 22	
8	7.30	984	N	17.87	2,780	4	18.92	2,810	N	25.81	3,450
4	7.54	1,020	12	17.69	2,710	8	19.12	2,870	12	25.79	3,440
12	7.59	1,030		May 4		N	19.73	2,990		May 23	
	April 25		8	17.61	2,710	4	20.51	3,190	N	25.73	3,420
N	7.63	1,040	4	18.07	2,730	8	21.03	3,270	12	25.68	3,410
12	7.72	1,050	12	18.66	2,850	12	21.50	3,870		May 24	
	April 26			May 5			May 16		N	25.60	3,400
N	7.81	1,070	N	19.29	3,010	4	21.80	3,430	12	25.54	3,390
12	7.89	1,080	12	19.65	3,060	8	22.22	3,570		May 25	
	April 27			May 6		N	22.47	3,630	N	25.45	3,370
N	7.94	1,090	N	19.85	3,100	4	22.68	3,690	12	25.36	3,370
12	7.97	1,100	12	19.98	3,130	8	22.88	3,760		May 26	
	April 28			May 7		12	23.38	3,920	N	25.28	3,360
N	7.96	1,100	N	20.00	3,140		May 17		12	25.19	3,340
12	7.94	1,090	12	20.00	3,140	4	23.84	3,970		May 27	
	April 29			May 8		8	24.16	3,950	N	25.08	3,320
4	8.04	1,110	N	19.92	3,110	N	24.49	3,980	12	24.98	3,330
8	8.53	1,160	12	19.78	3,060	4	24.74	4,010		May 28	
N	10.39	1,540		May 9		6	24.87	4,040	N	24.89	3,350
4	12.00	1,780	N	19.63	3,050	7	24.94	4,050	12	24.77	3,350
8	13.04	2,030	12	19.47	3,010	8	24.98	4,060		May 29	
12	13.94	2,200		May 10		9	25.03	4,050	N	24.65	3,350
	April 30		N	19.26	2,960	10	25.07	4,050	12	24.52	3,340
4	14.70	2,340	12	19.01	2,890	12	25.14	4,040		May 30	
8	15.44	2,480		May 11			May 18		N	24.40	3,330
N	16.01	2,590	N	18.75	2,840	8	25.42	3,980	12	24.29	3,330
4	16.47	2,680	12	18.48	2,780	4	25.62	4,000		May 31	
8	16.85	2,750		May 12		12	25.73	3,960	N	24.16	3,310
12	17.16	2,810	N	18.18	2,720		May 19		12	24.01	3,270
						N	25.82				

Bayou Castor near Grayson, La.

Location.--Lat 32°04'55", long 92°12'25", in SW¼NW¼ sec. 30, T. 13 N., R. 3 E., at bridge on State Highway 110, 6½ miles northwest of Grayson. Datum of gage is 89.97 ft above mean sea level, unadjusted.
Drainage area.--271 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs and extended to peak stage by velocity-area studies.
Maxima.--April-June 1953: Discharge, 18,000 cfs 2 p.m. May 17 (gage height, 15.65 ft).
1940 to March 1953: Discharge, 21,200 cfs Apr. 11, 1947 (gage height, 16.25 ft, from floodmark).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	174	3,950	22	11	41	752	4.1	21	37	2,100	2.8
2	140	4,140	17	12	43	621	4.0	22	27	1,340	2.8
3	110	2,100	13	13	41	804	3.3	23	20	1,020	2.4
4	80	1,470	11	14	33	748	3.2	24	21	806	1.7
5	56	2,030	9.3	15	26	772	3.3	25	78	607	1.4
6	44	3,020	8.1	16	23	1,340	3.3	26	113	453	1.0
7	40	2,770	7.1	17	21	15,300	2.6	27	107	341	.7
8	35	1,820	6.1	18	22	15,600	2.0	28	106	256	.7
9	30	1,250	5.5	19	34	9,940	1.7	29	655	169	.7
10	31	960	4.8	20	43	4,140	2.1	30	1,820	90	.6
								31	-	40	-
Monthly mean discharge, in cubic feet per second									135	2,605	4.94
Runoff, in acre-feet									8,040	160,200	294
Runoff, in inches									0.56	11.08	0.02

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		12	11.39	2,320	12	10.23	1,080		May 19	
12	2.77	32		May 1			May 10		4	14.67	12,800
N	2.63	27	2	11.42	2,380	N	10.00	950	8	14.36	11,400
12	2.47	23	4	11.47	2,470	12	9.82	860	N	14.02	9,880
	April 23		6	11.59	2,710		May 11		4	13.65	8,400
N	2.35	20	8	11.79	3,120	N	9.56	754	8	13.32	7,130
12	2.23	17	10	12.06	3,690	12	9.23	639	12	12.99	6,010
	April 24		N	12.26	4,130		May 12			May 20	
8	2.16	15	2	12.46	4,590	N	9.15	616	4	12.70	5,170
4	2.45	23	4	12.60	4,920	12	9.14	613	8	12.44	4,540
12	2.81	33	6	12.67	5,100		May 13		N	12.20	4,000
	April 25		8	12.73	5,250	N	9.82	860	4	12.00	3,560
4	3.16	45	10	12.74	5,280	12	9.87	885	8	11.81	3,160
8	3.66	63	12	12.72	5,220		May 14		12	11.64	2,810
N	4.14	83		May 2		N	9.52	738		May 21	
4	4.48	97	4	12.63	5,000	12	9.20	630	8	11.35	2,250
8	4.72	109	8	12.47	4,610		May 15		4	11.10	1,860
12	4.83	114	N	12.27	4,150	N	9.56	754	12	10.87	1,580
	April 26		4	12.07	3,710	12	10.00	950		May 22	
N	4.84	115	8	11.87	3,290		May 16		8	10.68	1,400
12	4.72	109	12	11.69	2,910	4	10.08	990	4	10.49	1,250
	April 27			May 3		8	10.13	1,020	12	10.34	1,140
N	4.67	106	8	11.36	2,270	N	10.18	1,050		May 23	
12	4.67	106	4	11.06	1,810	4	10.26	1,100	8	10.20	1,060
	April 28		12	10.84	1,550	8	10.68	1,400	4	10.05	975
N	4.66	106		May 4		12	12.20	4,000	12	9.92	910
12	4.69	108	8	10.69	1,410		May 17			May 24	
	April 29		4	10.70	1,420	2	13.53	7,930	N	9.70	810
2	4.96	122	12	10.88	1,590	4	14.41	11,600	12	9.41	694
4	5.20	135		May 5		6	15.00	14,500		May 25	
6	5.66	163	8	11.03	1,770	8	15.31	16,200	N	9.12	608
8	6.83	250	4	11.31	2,180	10	15.54	17,400	12	8.76	518
10	7.99	370	12	11.57	2,670	N	15.63	17,900		May 26	
N	8.88	546		May 6		2	15.65	18,000	N	8.45	451
2	9.54	746	8	11.73	2,990	4	15.64	17,900	12	8.13	392
4	10.00	950	4	11.81	3,160	6	15.59	17,600		May 27	
6	10.33	1,140	12	11.82	3,180	8	15.52	17,300	N	7.77	338
8	10.54	1,290		May 7		10	15.42	16,700	12	7.35	296
10	10.65	1,380	8	11.72	2,970	12	15.35	16,400		May 28	
12	10.71	1,430	4	11.55	2,630		May 18		N	6.92	258
	April 30		12	11.35	2,250	4	15.28	16,000	12	6.36	213
4	10.77	1,480		May 8		8	15.26	15,900		May 29	
8	10.90	1,610	N	11.04	1,780	N	15.25	15,800	N	5.74	169
N	11.03	1,770	12	10.73	1,450	4	15.21	15,600	12	5.00	124
4	11.19	1,990		May 9		8	15.12	15,100		May 30	
8	11.32	2,200	N	10.46	1,230	12	14.92	14,100	N	4.28	89
									12	3.54	59

Garrett Creek at Jonesboro, La.

Location.--Lat 32°13'55", long 92°43'35", in NE¼NE¼ sec. 1, T. 14 N., R. 4 W., at bridge on State Highway 13, 0.3 mile southwest of Jonesboro town limits.
Drainage area.--2.14 sq mi.
Gage-height record.--Water-stage recorder graph except May 8-12, 22, when recorder was not operating.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 1,000 cfs, and extended to peak stage. Discharge May 8-13, 22, estimated on basis of recorded range in stage and precipitation records. Shifting-control method used May 24-28.
Maxima.--April-June 1953: Discharge, 1,670 cfs 1 a.m. Apr. 29 (gage height, 9.87 ft).
Remarks.--Station established Oct. 1, 1952.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	0.4	2.5		11	0.3	0.4		21	0	1.2	
2	.3	1.4		12	.3	20		22	0	1	
3	.3	1.1		13	.3	5		23	0	.3	
4	.3	98		14	.3	33		24	12	.2	
5	.3	7.1		15	7.2	39		25	3.9	.1	
6	.3	2.8		16	1.5	141		26	.9	.1	
7	.3	1.6		17	.4	72		27	.1	.1	
8	.3	1		18	.3	18		28	43	.1	
9	.3	.5		19	.2	5.3		29	285	0	
10	.3	.5		20	0	2.4		30	6.1	0	
								31	-	0	
Monthly mean discharge, in cubic feet per second									12.2	14.7	
Runoff, in acre-feet									724	904	
Runoff, in inches									6.34	7.92	

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		4	7.34	357	N	1.45	6.4	N	1.59	8.0
12	0.69	0	6	7.04	283	4	1.33	5.2	2	1.50	6.9
N	.69	0	8	7.05	285	8	1.21	4.2	4	1.43	6.1
12	.69	0	10	6.96	267	12	1.15	3.7	6	1.39	5.7
	April 23		N	6.00	128		May 6		8	7.00	275
N	.68	0	2	4.25	61	N	1.04	2.8	9	9.07	1,190
12	.68	0	4	3.18	39	12	.95	2.0	10	8.30	760
	April 24		6	2.54	25		May 7		12	7.48	403
2	.68	0	8	2.21	18	N	.91	1.7		May 17	
4	.69	0	10	2.00	14	12	.85	1.2	2	6.60	200
6	.69	0	12	1.83	11		May 14		4	4.86	78
8	.70	0		April 30		12	1.7	9.3	6	3.65	49
10	.71	.1	4	1.64	8.6	2	1.8	11	8	2.81	31
N	2.18	18	8	1.51	7.0	4	2.1	16	10	2.37	22
2	2.72	29	N	1.36	5.5	6	3.0	35	N	2.14	17
4	3.20	39	4	1.24	4.5	8	4.74	74	2	2.90	33
6	2.55	26	8	1.14	3.6	10	4.14	59	4	4.81	76
8	2.05	15	12	1.10	3.3	N	3.06	36	6	4.53	68
10	1.78	10		May 1		2	2.38	22	8	3.54	46
12	1.58	7.9	N	1.00	2.5	4	2.02	14	10	2.70	29
	April 25		12	.92	1.8	6	2.08	16	12	2.34	21
4	1.36	5.5		May 2		8	3.62	48		May 18	
8	1.24	4.5	N	.88	1.4	10	3.50	46	2	2.17	18
N	1.14	3.6	12	.85	1.2	12	2.28	20	4	2.65	28
4	1.04	2.8		May 3			May 15		6	3.15	38
8	.95	2.0	N	.84	1.1	2	2.24	19	8	2.88	32
12	.90	1.6	12	.82	1.0	4	2.07	16	10	2.44	23
	April 26			May 4		6	2.20	18	N	2.16	17
N	.81	.9	2	.82	1.0	8	3.50	46	2	1.92	13
12	.74	.3	4	1.70	9.3	10	6.06	133	4	1.76	10
	April 27		6	6.21	147	N	5.04	83	6	1.67	8.9
N	.71	.1	8	5.40	96	2	3.26	40	8	1.64	8.6
12	.70	0	10	5.10	85	4	2.50	24	10	1.59	8.0
	April 28		N	7.74	496	6	2.19	18	12	1.54	7.4
N	.70	0	2	6.55	192	8	2.10	16		May 19	
8	.70	0	4	4.34	63	10	2.70	29	8	1.42	6.0
9	.71	.1	6	2.98	35	12	2.79	31	4	1.25	4.6
10	1.11	3.4	8	2.46	24		May 16		12	1.07	3.1
11	7.60	445	10	2.16	17	2	2.49	24		May 20	
12	9.00	1,150	12	2.00	14	4	2.16	17	N	1.00	2.5
	April 29			May 5		6	1.95	13	12	.90	1.6
1	9.87	1,670	4	1.74	9.9	8	1.81	11		May 21	
2	8.90	1,090	8	1.58	7.9	10	1.69	9.2	N	.85	1.2
									12	.79	.7

Dugdemona River near Jonesboro, La.

Location.--Lat 32°12'25", long 92°48'05", in SW¼ sec. 8, T. 14 N., R. 4 W., at bridge on State Highway 13, 200 ft downstream from Brush Creek and 6 miles southwest of Jonesboro. Datum of gage is 116.53 above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--362 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Discharge for period of backwater from temporary dam June 9-30 computed on basis of adjacent record or scaled from temporary curves based on 2 discharge measurements.
Maxima.--April-June 1953: Discharge, 23,500 cfs 11 p.m. May 17 (gage height, 18.78 ft).
1938 to March 1953: Discharge, 30,600 cfs Jan. 1, 1945 (gage height 19.87 ft).
Remarks.--Water used by paper mill at Hodge is pumped from wells and discharged into stream about 7 miles above station. Part of effluent is discharged continually whenever mill is operating but that containing waste material is stored in a reservoir and released whenever river flow is sufficient to materially dilute it.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	411	10,000	98	11	143	879	10	21	106	2,770	3
2	293	4,780	83	12	118	668	8	22	85	1,840	2
3	230	2,630	71	13	103	733	6	23	71	1,290	2
4	191	2,130	62	14	100	1,120	5	24	76	987	2
5	164	3,040	52	15	186	2,400	4	25	212	751	2
6	151	3,960	46	16	253	4,220	4	26	462	522	2
7	151	3,740	39	17	251	16,900	3	27	537	336	2
8	155	2,460	28	18	224	18,800	3	28	612	227	2
9	179	1,620	20	19	186	8,790	3	29	6,650	174	2
10	173	1,150	15	20	139	4,480	3	30	14,800	142	3
								31	-	117	-
Monthly mean discharge, in cubic feet per second									914	3,347	19.5
Runoff, in acre-feet									54,370	205,800	1,160
Runoff, in inches									2.82	10.66	0.06

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		8	16.39	11,300		May 9		4	17.65	16,900
12	5.48	94	10	16.62	12,200	N	11.96	1,610	8	17.23	14,600
N	5.30	84	12	16.83	13,000	12	11.64	1,310	12	16.80	12,800
12	5.18	77		April 30			May 10			May 19	
	April 23		4	17.12	14,100	N	11.38	1,140	4	16.36	11,200
N	5.07	71	8	17.31	15,000	12	11.12	1,000	8	15.93	9,760
12	4.98	66	N	17.38	15,400		May 11		N	15.55	8,550
	April 24		1	17.39	15,400	N	10.84	881	4	15.16	7,400
8	4.93	64	4	17.37	15,400	12	10.47	754	8	14.85	6,550
4	5.16	76	8	17.25	15,200		May 12		12	14.56	5,800
12	5.72	107	12	17.04	13,800	N	10.12	641		May 20	
	April 25			May 1		12	10.10	635	8	14.10	4,790
4	6.15	132	4	16.73	12,600		May 13		4	13.68	4,030
8	6.68	162	8	16.39	11,300	N	10.37	721	12	13.32	3,420
N	7.42	205	N	16.02	10,100	12	10.77	854		May 21	
4	8.10	247	4	15.63	8,790		May 14		8	13.03	2,960
8	8.60	296	8	15.28	7,740	8	11.11	1,000	4	12.73	2,530
12	8.95	353	12	14.92	6,750	4	11.43	1,170	12	12.48	2,210
	April 26			May 2		12	11.89	1,540		May 22	
8	9.39	448	4	14.60	5,900		May 15		N	12.15	1,820
4	9.61	502	8	14.29	5,190	8	12.38	2,090	12	11.85	1,500
12	9.67	518	N	14.01	4,610	4	12.84	2,690		May 23	
	April 27		4	13.74	4,130	12	13.25	3,310	N	11.60	1,280
N	9.73	532	8	13.52	3,750		May 16		12	11.32	1,110
12	9.86	565	12	13.31	3,410	4	13.40	3,550		May 24	
	April 28			May 3		8	13.53	3,770	N	11.08	986
2	9.87	568	8	12.93	2,820	N	13.63	3,940	12	10.80	865
4	9.89	572	4	12.58	2,330	4	13.73	4,110		May 25	
6	9.91	578	12	12.37	2,070	8	14.13	4,850	N	10.47	754
8	9.93	584		May 4		12	14.96	6,850	12	10.09	632
10	9.95	590	8	12.30	1,990		May 17			May 26	
N	9.96	593	4	12.43	2,150	2	15.50	8,400	N	9.68	520
2	9.96	593	12	12.65	2,420	4	15.94	9,790	12	9.27	418
4	9.96	593		May 5		6	16.34	11,100		May 27	
6	9.96	593	8	12.89	2,760	8	16.94	13,400	N	8.82	330
8	10.01	608	4	13.30	3,390	10	17.42	15,600	12	8.32	265
10	10.31	703	12	13.38	3,520	N	17.88	18,100		May 28	
12	11.07	982		May 6		2	18.24	20,200	N	7.73	224
	April 29		8	13.52	3,750	4	18.48	21,700	12	7.25	195
2	11.57	1,260	4	13.78	4,200	6	18.64	22,600		May 29	
4	12.50	2,230	12	13.88	4,370	8	18.74	23,200	N	6.86	172
6	13.38	3,520		May 7		10	18.77	23,400	12	6.58	156
8	13.74	4,130	8	13.67	4,010	11	18.78	23,500		May 30	
10	14.18	4,960	4	13.37	3,500	12	18.77	23,400	N	6.31	141
N	14.67	6,080	12	13.10	3,070		May 18		12	6.09	128
2	15.24	7,620		May 8		4	18.68	22,900		May 31	
4	15.75	9,180	N	12.64	2,410	8	18.42	21,300	N	5.90	117
6	16.10	10,300	12	12.28	1,970	N	18.04	19,000	12	5.71	107

Dugdemona River near Winnfield, La.

Location.--Lat 31°58'30", long 92°39'10", on line between secs. 34 and 35, T. 12 N., R. 3 W., at bridge on U. S. Highway 167, 3.5 miles north of Winnfield. Datum of gage is 81.14 ft above mean sea level (Louisiana Geodetic Survey benchmark).
Drainage area.--648 sq mi.
Gage-height record.--Water-stage recorder graph except for period June 19-28 when recorder was not operating.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Discharge for period June 19-28 estimated on basis of precipitation records and records for nearby stations. Shifting-control method used June 13-18, 29, 30.
Maxima.--April-June 1953: Discharge, 27,100 cfs 8 a. m. May 19 (gage height, 23.78 ft). 1939 to March 1953: Discharge, 25,000 cfs Jan. 3, 1945 (gage height, 22.86 ft).
Remarks.--Some regulation by paper mill 30 miles above station.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	824	18,800	448	11	200	3,450	41	21	382	14,400	2.0
2	760	17,400	238	12	199	2,940	33	22	314	8,590	1.5
3	681	13,100	155	13	203	3,300	23	23	225	5,420	1.5
4	619	9,170	124	14	200	3,740	14	24	171	3,780	1.5
5	545	7,610	103	15	186	3,840	9.3	25	188	2,900	1.5
6	470	7,000	87	16	194	4,500	5.2	26	267	2,250	2.0
7	381	5,800	74	17	308	13,400	4.3	27	380	1,830	2.0
8	294	5,140	64	18	387	24,200	3.0	28	460	1,560	3.0
9	239	4,890	54	19	407	26,600	2.0	29	6,350	1,290	3.4
10	218	4,210	48	20	407	22,000	2.0	30	17,800	1,000	1.5
								31	-	749	-
Monthly mean discharge, in cubic feet per second									1,142	7,899	51.7
Runoff, in acre-feet									67,950	485,700	3,080
Runoff, in inches									1.97	14.05	0.09

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		N	21.81	18,400		May 14			May 21	
12	7.17	357	2	21.86	18,600	N	16.28	3,790	4	21.42	16,800
N	6.76	316	4	21.88	18,700	12	16.33	3,840	8	21.10	15,600
12	6.23	269	6	21.92	18,900		May 15		N	20.78	14,300
	April 23		8	21.92	18,900	N	16.29	3,800	4	20.47	13,200
N	5.68	223	10	21.93	18,900	12	16.39	3,910	8	20.14	12,100
12	5.16	184	12	21.93	18,900		May 16		12	19.74	10,800
	April 24			May 1		4	16.58	4,130		May 22	
N	4.83	161	2	21.94	19,000	8	16.66	4,220	4	19.51	10,100
12	5.07	178	4	21.93	18,900	N	16.68	4,250	8	19.20	9,270
	April 25		8	21.92	18,900	4	16.70	4,270	N	18.93	8,540
N	5.16	184	N	21.91	18,800	8	17.30	5,100	4	18.63	7,760
12	5.45	206	4	21.90	18,800	12	17.90	6,180	8	18.35	7,120
	April 26		8	21.86	18,600		May 17		12	18.15	6,680
8	5.91	242	12	21.83	18,500	2	18.40	7,230		May 23	
4	6.47	290		May 2		4	18.72	7,990	4	17.90	6,180
12	6.92	332	8	21.70	18,000	6	19.08	8,950	8	17.67	5,740
	April 27		4	21.45	17,000	8	19.49	10,100	N	17.45	5,360
8	7.29	369	12	21.11	15,600	10	19.97	11,600	4	17.24	5,010
4	7.57	397		May 3		N	20.55	13,500	8	17.04	4,710
12	7.76	418	8	20.67	13,900	2	21.00	15,200	12	16.75	4,330
	April 28		4	20.21	12,300	4	21.38	16,700		May 24	
2	7.79	421	12	19.63	10,500	6	21.70	18,000	8	16.44	3,960
4	7.82	424		May 4		8	21.90	18,800	4	16.09	3,580
6	7.86	429	N	19.12	9,050	10	22.08	19,600	12	15.80	3,280
8	7.87	430	12	18.76	8,090	12	22.30	20,500		May 25	
10	7.89	432		May 5			May 18		8	15.53	3,020
N	7.90	433	N	18.51	7,480	2	22.47	21,300	4	15.26	2,770
2	7.90	433	12	18.47	7,390	4	22.66	22,100	12	14.99	2,530
4	7.90	433		May 6		6	22.81	22,700		May 26	
6	7.91	434	N	18.35	7,120	8	22.96	23,400	8	14.71	2,320
8	7.92	435	12	18.01	6,390	10	23.08	23,900	4	14.46	2,160
10	9.06	584		May 7		N	23.20	24,400	12	14.21	2,010
12	10.58	856	N	17.68	5,760	2	23.31	24,900		May 27	
	April 29		12	17.41	5,290	4	23.40	25,400	8	13.97	1,880
2	12.28	1,280		May 8		6	23.49	25,800	4	13.71	1,770
4	12.88	1,470	N	17.31	5,120	8	23.55	26,000	12	13.46	1,680
6	14.19	2,000	12	17.24	5,010	10	23.62	26,300		May 28	
8	15.02	2,560		May 9		12	23.69	26,700	8	13.21	1,590
10	16.00	3,480	N	17.17	4,900		May 19		4	13.02	1,520
N	17.50	5,440	12	16.94	4,570	4	23.75	26,900	12	12.74	1,430
2	18.58	7,640		May 10		8	23.78	27,100		May 29	
4	19.22	9,320	N	16.65	4,210	N	23.77	27,000	8	12.46	1,340
6	19.63	10,500	12	16.33	3,480	4	23.68	26,600	4	12.13	1,240
8	20.09	11,900		May 11		8	23.57	26,100	12	11.79	1,150
10	20.45	13,100	N	15.96	3,440	12	23.39	25,300		May 30	
12	20.76	14,200	12	15.61	3,090		May 20		8	11.41	1,050
	April 30			May 12		4	23.19	24,400	4	11.04	955
2	21.06	15,400	N	15.39	2,890	8	22.94	23,300	12	10.64	868
4	21.30	16,400	12	15.39	2,890	N	22.69	22,200		May 31	
6	21.48	17,100		May 13		4	22.40	21,000	8	10.23	786
8	21.61	17,600	N	15.91	3,390	8	22.10	19,600	4	9.94	731
10	21.73	18,100	12	16.04	3,520	12	21.77	18,300	12	9.11	592

(32) Bayou Funny Louis near Trout, La.

Location.--Lat 31°42'60", long 92°13'20", in SE¼NW¼ sec. 36, T. 9 N., R. 2 E., at bridge on U. S. Highway 84, 3 miles northwest of Trout. Datum of gage is 81.39 ft above mean sea level, unadjusted.
Drainage area.--92 sq mi, approximately.
Gage-height record.--Water-stage recorder graph except for June 17, 18, when the recorder was not operating.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 14,000 cfs and extended to peak stage by logarithmic plotting. Discharge for June 17, 18, estimated on basis of recorded range in stage and records for nearby stations. Shifting-control method used June 19-28.
Maxima.--April-June 1953: Discharge, 32,700 cfs 7 p.m. May 17 (gage height, 23.26 ft).
1939 to March 1953: Discharge, 9,730 cfs Feb. 9, 1946 (gage height, 19.91 ft).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	40	2,080	14	11	12	49	5.9	21	9.8	975	1.0
2	30	1,190	13	12	11	44	5.7	22	8.5	182	.9
3	24	208	12	13	11	983	5.6	23	7.4	95	.9
4	20	775	11	14	11	1,200	5.0	24	17	67	.7
5	18	1,580	9.8	15	12	2,300	4.8	25	90	50	.7
6	18	1,280	8.7	16	19	3,280	3.9	26	80	36	.6
7	17	842	8.3	17	31	20,500	3	27	45	27	.6
8	16	159	7.3	18	19	13,900	2	28	24	21	1.2
9	15	75	6.9	19	15	3,010	1.2	29	6,890	18	2.7
10	14	54	6.2	20	12	1,660	1.1	30	6,240	17	3.3
								31	-	16	-
Monthly mean discharge, in cubic feet per second									459	1,828	4.93
Runoff, in acre-feet									27,330	112,400	294
Runoff, in inches									5.57	22.91	0.06

Gage height, in feet, and discharge, in cubic feet per second, at indicated time,

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		8	19.04	7,500	12	15.16	1,550	6	3.14	43
12	1.95	9.1	10	18.75	6,790		May 5		8	3.11	41
N	1.90	8.5	N	18.45	6,090	4	15.47	1,660	10	3.10	41
12	1.85	7.9	2	18.15	5,460	8	15.50	1,680	N	3.08	40
	April 23		4	17.84	4,880	N	15.37	1,620	2	3.06	39
N	1.81	7.4	6	17.54	4,370	4	15.14	1,540	4	3.04	38
12	1.77	6.9	8	17.24	3,870	8	14.88	1,480	6	3.02	37
	April 24		10	16.96	3,430	12	14.69	1,430	8	3.00	36
8	1.76	6.8	12	16.75	3,100		May 6		10	3.40	54
4	2.09	11		May 1		4	14.47	1,330	12	4.16	94
12	3.54	61	4	16.36	2,550	8	14.22	1,340		May 13	
	April 25		8	16.11	2,240	N	13.95	1,290	2	6.24	262
8	4.01	86	N	15.86	1,960	4	13.62	1,230	4	7.95	466
4	4.38	106	4	15.65	1,780	8	13.25	1,170	6	10.20	748
12	4.22	97	8	15.40	1,630	12	12.87	1,120	8	11.69	948
	April 26		12	15.12	1,540		May 7		10	12.70	1,090
8	4.14	92		May 2		4	12.43	1,050	N	13.27	1,180
4	3.77	72	4	14.78	1,450	8	11.98	987	2	13.62	1,230
12	3.47	58	8	14.31	1,350	N	11.36	903	4	13.83	1,270
	April 27		N	13.77	1,260	4	10.42	777	6	13.98	1,300
N	3.18	44	4	12.85	1,110	8	8.92	588	8	14.05	1,310
12	2.92	33	8	11.30	895	12	7.22	376	10	14.03	1,300
	April 28		12	9.00	598		May 8		12	13.95	1,290
N	2.71	33		May 3		4	5.92	228		May 14	
12	2.53	19	4	6.80	326	8	5.15	154	4	13.68	1,250
	April 29		8	5.53	187	N	4.72	125	8	13.42	1,200
2	3.10	41	N	4.98	142	4	4.50	113	N	13.29	1,180
4	5.90	226	4	4.69	124	8	4.30	101	4	13.19	1,160
6	10.50	787	8	4.50	113	12	4.14	92	8	13.16	1,160
8	14.55	1,400	12	4.50	113		May 9		12	13.48	1,210
10	17.23	3,860		May 4		8	3.90	79		May 15	
N	19.60	9,050	2	4.50	113	4	3.72	70	4	13.92	1,280
2	20.45	13,100	4	4.53	115	12	3.54	61	8	14.49	1,390
4	20.55	13,600	6	4.78	129		May 10		N	16.10	2,230
6	20.45	13,100	8	6.26	265	N	3.36	52	4	16.77	3,120
8	20.21	11,800	10	9.20	623	12	3.36	52	8	16.98	3,460
10	20.00	10,800	N	10.88	838		May 11		12	17.00	3,490
12	19.80	9,800	2	12.23	1,020	N	3.31	50		May 16	
	April 30		4	13.37	1,190	12	3.18	44	4	17.08	3,620
2	19.66	9,260	6	14.07	1,310		May 12		8	17.00	3,490
4	19.48	8,690	8	14.52	1,390	2	3.17	44	N	16.88	3,300
6	19.27	8,090	10	14.88	1,480	4	3.16	43	4	16.74	3,080

Bayou Funny Louis near Trout, La.--Continued

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
8	16.60	2,870	4	21.92	22,700		May 20		4	4.94	139
12	16.80	3,170	6	21.54	20,100	4	15.77	1,870	8	4.74	126
	May 17		8	21.13	17,300	8	15.58	1,730	12	4.56	117
2	17.34	4,030	10	20.74	14,700	N	15.37	1,620		May 23	
4	18.64	6,530	N	20.34	12,500	4	15.14	1,540	8	4.28	100
6	20.60	13,900	2	19.83	9,940	8	14.84	1,460	4	4.07	88
8	21.18	17,600	4	19.40	8,450	12	14.44	1,380	12	3.87	78
10	21.34	18,700	6	18.94	7,250		May 21			May 24	
N	21.50	19,800	8	18.52	6,250	4	13.98	1,300	N	3.66	67
2	22.10	24,000	10	18.16	5,480	8	13.36	1,190	12	3.44	56
4	22.79	29,100	12	17.80	4,810	N	12.42	1,050		May 25	
6	23.20	32,200		May 19		4	10.92	844	N	3.29	50
7	23.26	32,700	4	17.21	3,830	8	8.96	592	12	3.13	42
8	23.24	32,500	8	16.84	3,230	12	7.16	369		May 26	
10	23.05	31,100	N	16.58	2,840		May 22		N	3.01	36
12	22.76	28,900	4	16.32	2,500	4	6.06	243	12	2.88	31
	May 18		8	16.12	2,250	8	5.52	186		May 27	
2	22.35	25,800	12	15.94	2,040	N	5.20	158	N	2.80	27
									12	2.73	24

Big Creek at Pollock, La.

Location.--Lat 31°32'00", long 92°24'20", in NW¼NE¼ sec. 6, T. 6 N., R. 1 E., at bridge 500 ft downstream from U. S. Highway 165 and half a mile north of Pollock. Datum of gage is 76.69 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--51 sq mi, approximately.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used June 2-28.
Maxima.--April-June 1953: Discharge, 23,500 cfs 12:30 p.m. Apr. 29 (gage height, 16.90 ft).
1942 to March 1953: Discharge, 13,700 cfs Feb. 13, 1950 (gage height, 14.52 ft), from rating curve extended above 4,000 cfs by velocity-area studies.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	42	196	51	11	24	56	38	21	20	163	32
2	38	107	48	12	27	54	45	22	20	132	32
3	36	82	47	13	34	396	45	23	19	112	32
4	34	844	45	14	27	267	39	24	43	99	31
5	32	1,040	45	15	28	560	37	25	84	84	31
6	36	187	43	16	31	828	36	26	37	74	31
7	34	106	42	17	23	10,100	35	27	26	68	29
8	31	81	42	18	22	4,690	34	28	22	62	72
9	29	68	42	19	21	711	33	29	9,110	58	102
10	26	60	40	20	20	252	33	30	1,300	56	67
								31	-	53	-
Monthly mean discharge, in cubic feet per second									376	698	42.6
Runoff, in acre-feet									22,370	42,930	2,540
Runoff, in inches									8.22	15.78	0.93

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 22		10	12.39	5,400	8	9.84	1,790	8	2.00	51
12	1.44	20	12	11.40	3,610	10	10.43	2,420	N	1.98	50
N	1.44	20		April 30		12	10.33	2,240	4	1.96	48
12	1.44	20	2	10.74	2,700		May 5		8	1.94	47
	April 23		4	10.26	2,170	2	10.05	1,980	12	2.60	98
N	1.43	19	6	9.81	1,760	4	9.68	1,660		May 13	
12	1.43	19	8	9.32	1,430	6	9.27	1,400	4	3.97	251
	April 24		10	8.74	1,190	8	8.77	1,200	8	5.07	410
4	1.44	20	N	8.16	1,020	10	8.24	1,040	N	5.64	495
8	1.44	20	2	7.60	866	N	7.68	886	4	5.56	483
N	1.70	32	4	7.08	751	2	7.15	766	8	5.46	468
4	2.00	51	6	6.60	657	4	6.68	671	12	5.27	440
8	2.40	81	8	6.15	578	6	6.27	599		May 14	
12	2.52	91	10	5.70	505	8	5.87	532	4	4.86	378
	April 25		12	5.15	422	10	5.39	458	8	4.34	302
8	2.70	107		May 1		12	4.97	380	N	3.86	236
4	2.31	74	4	4.03	259		May 6		4	3.46	186
12	1.97	49	8	3.48	189	4	3.91	242	8	3.40	179
	April 26		N	3.26	164	8	3.43	183	12	3.55	197
N	1.74	35	4	3.14	151	N	3.24	161		May 15	
12	1.84	29	8	3.01	138	4	3.09	146	2	3.65	209
	April 27		12	2.92	129	8	2.98	135	4	3.77	224
N	1.56	25		May 2		12	2.88	125	6	4.00	255
12	1.52	23	8	2.76	113		May 7		8	5.90	537
	April 28		4	2.62	100	N	2.66	103	10	6.64	664
N	1.50	22	12	2.49	88	12	2.52	91	N	6.69	673
12	1.50	22		May 3			May 8		2	7.02	739
	April 29		8	2.40	81	N	2.39	80	4	7.31	799
2	2.50	89	4	2.33	75	12	2.30	73	6	7.23	782
4	6.58	653	12	2.56	94		May 9		8	6.88	710
6	7.86	930		May 4		N	2.23	67	10	6.67	670
8	10.58	2,520	2	2.81	118	12	2.17	63	12	6.98	731
10	14.08	10,700	4	3.23	160		May 10			May 16	
N	16.74	22,800	6	3.80	228	N	2.12	59	2	7.50	842
1230	16.90	23,500	8	4.47	320	12	2.09	57	4	7.83	922
1	16.85	23,300	10	4.94	390		May 11		6	8.26	1,050
2	16.61	22,100	N	6.50	639	N	2.09	57	8	8.56	1,140
4	15.92	19,200	2	7.34	806	12	2.04	54	10	8.49	1,120
6	14.84	13,900	4	7.93	949		May 12		N	7.95	955
8	13.56	8,660	6	8.58	1,140	4	2.03	53	2	7.29	795

Big Creek at Pollock, La.--Continued

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
4	6.80	694	4	13.76	9,400	8	5.54	480	12	2.55	94
6	6.47	634	6	12.62	5,880	10	5.22	432		May 25	
8	6.24	594	8	11.72	4,110	12	4.94	390	N	2.41	82
10	6.03	558	10	11.09	3,150		May 20		12	2.35	77
12	5.86	531	N	10.64	2,580	4	4.42	313		May 26	
	May 17		2	10.32	2,230	8	4.06	263	N	2.31	74
2	5.95	545	4	10.00	1,930	N	3.84	233	12	2.27	71
4	9.40	1,480	6	9.68	1,660	4	3.69	214		May 27	
6	11.60	3,920	8	9.34	1,440	8	3.57	199	N	2.24	68
8	13.26	7,680	10	9.00	1,280	12	3.45	185	12	2.19	64
10	13.74	9,330	12	8.70	1,180		May 21			May 28	
N	14.08	10,700		May 19		8	3.29	167	N	2.16	62
2	13.90	9,960	2	8.39	1,090	4	3.20	157	12	2.12	59
4	14.30	11,600	4	8.04	982	12	3.08	145		May 29	
6	16.12	19,800	6	7.62	871		May 22		N	2.11	59
6:30	16.17	20,100	8	7.25	786	N	2.94	131	12	2.08	57
8	16.09	19,700	10	6.93	720	12	2.84	121		May 30	
10	15.80	18,300	N	6.64	664		May 23		N	2.08	57
12	15.49	16,900	2	6.38	618	N	2.75	112	12	2.04	54
	May 18		4	6.12	573	12	2.67	104		May 31	
2	14.77	13,600	6	5.85	529		May 24		N	2.04	54
						N	2.61	99	12	2.00	51

Chefuncte River near Folsom, La.

Location.--Lat 30°36'55", long 90°14'55", in SE¼NE¼ sec. 13, T. 5 S., R. 9 E., St. Helena meridian, on State Highway 189, 1.2 miles upstream from Bull Branch and 3.6 miles southwest of Folsom. Datum of gage is 62.11 ft above mean sea level (Louisiana Geodetic Survey benchmark).
Drainage area.--95.5 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 4,200 cfs and extended to peak stage by velocity-area studies.
Maxima.--April-June 1953: Discharge, 18,300 cfs 1 p.m. May 3 (gage height, 22.26 ft).
1944 to March 1953: Discharge, 15,000 cfs Nov. 27, 1948 (gage height, 21.59 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	80	236	74	11	85	148	59	21	60	726	87
2	78	232	72	12	78	125	60	22	59	431	74
3	82	9,760	70	13	74	112	61	23	59	236	66
4	82	4,790	68	14	71	110	63	24	63	163	63
5	76	1,790	68	15	68	116	61	25	306	123	62
6	118	1,140	68	16	76	132	59	26	677	109	64
7	183	674	67	17	80	172	57	27	638	90	65
8	175	428	63	18	70	230	56	28	317	88	32
9	121	261	61	19	65	2,000	57	29	144	83	114
10	97	182	60	20	62	1,550	59	30	186	78	138
								31	-	76	-
Monthly mean discharge, in cubic feet per second									144	853	69.1
Runoff, in acre-feet									-	-	-
Runoff, in inches									1.69	10.30	0.81

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		N	6.91	139	12	20.70	10,900	12	6.86	135
12	5.48	58	6	6.78	130		May 4			May 12	
6	5.48	58	12	6.77	129	2	20.27	9,320	N	6.71	125
N	5.48	58		April 30		4	19.77	7,680	12	6.58	116
6	5.63	64	6	6.99	144	6	19.30	6,370		May 13	
12	6.08	86	N	7.53	187	8	18.84	5,300	N	6.52	112
	April 25		6	7.92	221	10	18.40	4,480	12	6.45	108
2	6.41	106	12	8.27	252	N	18.00	3,860		May 14	
4	7.18	159		May 1		2	17.68	3,400	N	6.47	109
6	7.86	215	6	8.52	277	4	17.38	3,020	12	6.54	113
8	8.33	258	N	8.68	293	6	17.09	2,720		May 15	
10	8.63	288	6	8.76	301	8	16.85	2,480	N	6.59	116
N	8.89	314	12	8.70	295	10	16.66	2,320	12	6.65	120
2	9.18	343		May 2		12	16.54	2,230		May 16	
4	9.53	378	6	8.44	269		May 5		N	6.76	128
6	9.84	409	N	8.03	231	6	16.18	2,000	12	7.07	151
8	10.16	441	6	7.58	191	N	15.76	1,750		May 17	
10	10.43	470	12	7.40	177	6	15.37	1,560	6	7.26	166
12	10.70	500		May 3		12	15.16	1,460	N	7.40	177
	April 26		1	7.38	175		May 6		6	7.45	181
4	11.25	561	2	7.37	175	6	14.81	1,300	12	7.38	175
8	11.90	639	3	7.39	176	N	14.37	1,130		May 18	
N	12.48	712	4	7.43	179	6	13.83	978	2	7.36	174
4	12.78	757	5	8.10	237	12	13.26	847	4	7.33	171
8	12.83	765	6	9.58	383		May 7		6	7.29	168
12	12.76	754	7	11.66	610	6	12.69	742	8	7.24	164
	April 27		8	17.45	3,100	N	12.14	668	10	7.19	160
4	12.58	726	9	20.07	8,630	6	11.54	596	N	7.14	156
8	12.32	691	10	21.17	12,900	12	11.00	533	2	7.09	152
N	11.96	646	11	21.79	16,000		May 8		4	7.58	191
4	11.55	597	N	22.11	17,600	8	10.34	460	6	8.23	249
8	11.11	545	1	22.26	18,300	4	9.68	393	8	9.37	362
12	10.63	492	2	22.25	18,200	12	9.05	330	10	10.37	464
	April 28		3	22.15	17,800		May 9		12	10.98	531
4	10.11	436	4	22.02	17,100	8	8.52	277		May 19	
8	9.49	374	5	21.85	16,200	4	8.10	237	1	11.30	567
N	8.83	308	6	21.68	15,400	12	7.78	208	2	11.72	617
4	8.20	246	7	21.52	14,600		May 10		3	12.31	689
8	7.74	205	8	21.37	13,800	N	7.44	180	4	13.10	815
12	7.41	178	9	21.21	13,100	12	7.21	162	5	14.02	1,030
	April 29		10	21.06	12,400		May 11		6	14.87	1,330
6	7.11	154	11	20.90	11,700	N	7.03	147	7	15.40	1,570

Chefuncte River near Folson, La.--Continued

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
8	15.82	1,780	12	16.55	2,240	6	11.83	631	12	7.53	187
9	16.12	1,960		May 20		9	11.56	598		May 24	
10	16.39	2,120	3	16.25	2,040	12	11.24	560	4	7.41	178
11	16.67	2,330	6	15.98	1,880		May 22		8	7.31	170
N	16.88	2,510	9	15.65	1,700	4	10.84	515	N	7.21	162
1	17.04	2,670	N	15.32	1,530	8	10.45	472	4	7.12	155
2	17.15	2,780	3	14.92	1,350	N	10.05	430	8	7.03	147
3	17.21	2,840	6	14.54	1,200	4	9.62	387	12	6.95	142
4	17.23	7,860	9	14.16	1,070	8	9.23	348		May 25	
5	17.19	2,820	12	13.80	970	12	8.85	310	6	6.86	135
6	17.14	2,770		May 21			May 23		N	6.76	128
7	17.07	2,700	3	13.43	881	4	8.52	277	6	6.67	122
8	16.97	2,600	6	13.08	811	8	8.24	250	12	6.59	116
9	16.87	2,500	9	12.75	752	N	8.02	230		May 26	
10	16.77	2,410	N	12.42	704	4	7.82	212	N	6.46	109
11	16.65	2,310	3	12.10	663	8	7.66	198	12	6.34	101

Tangipahoa River at Robert, La.

Location.--Lat 30°30'23", long 90°21'42", in lot 39, T. 6 S., R. 8 E., St. Helena meridian, on State Highway 7, 1 mile west of Robert, 2 miles downstream from Chappepeela Creek, and 6 miles east of Hammond. Datum of gage is 6.87 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Drainage area.--646 sq mi.

Gage-height record.--Water-stage recorder graph except May 4 to June 2.

Discharge record.--Stage-discharge relation defined by current-meter measurements below 34,000 cfs and extended to peak stage. Discharge May 4 to June 2 estimated on basis of records for stations on nearby streams. Shifting-control method used June 3-28. Rate of change of stage used as a factor Apr. 24 to May 3.

Maxima.--April-June 1953: Discharge, 50,300 cfs 8 p.m. May 3; gage height, 23.13 ft 9 p.m. May 3.

1938 to March 1953: Discharge, 35,500 cfs Mar. 22, 1943 (gage height, 20.87 ft). Stage known, 27.1 ft in 1921, from floodmark.

Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	609	2,720	700	11	598	1,600	511	21	466	8,000	665
2	596	2,390	650	12	558	1,300	506	22	444	5,000	713
3	582	24,000	617	13	521	1,100	503	23	432	3,000	631
4	560	30,000	596	14	493	950	488	24	483	2,000	771
5	545	10,000	579	15	526	950	483	25	2,670	1,500	590
6	716	6,000	574	16	550	1,000	473	26	3,880	1,300	542
7	905	4,000	563	17	555	1,500	466	27	3,180	1,100	609
8	928	3,000	547	18	519	3,000	454	28	1,770	1,000	2,320
9	792	2,500	532	19	483	7,000	454	29	1,220	900	4,650
10	679	2,000	521	20	461	15,000	563	30	1,770	800	4,080
								31	-	750	-
Monthly mean discharge, in cubic feet per second									950	4,689	878
Runoff, in acre-feet									-	-	-
Runoff, in inches									1.64	8.37	1.52

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24			April 27			May 1		10	14.58	7,830
12	4.70	430	6	13.00	3,680	6	11.21	2,700	11	15.40	11,100
6	4.69	428	N	12.52	3,230	N	11.47	2,790	N	16.60	18,700
N	4.68	425	6	11.83	2,710	6	11.54	2,770	1	17.82	26,500
6	4.87	471	12	11.11	2,280	12	11.45	2,670	2	19.00	30,200
12	5.72	783		April 28			May 2		3	20.22	37,800
	April 25		6	10.30	1,950	6	11.22	2,530	4	21.22	43,400
3	7.07	1,400	N	9.55	1,730	N	10.93	2,360	5	22.00	47,300
6	8.73	2,210	6	8.88	1,570	6	10.61	2,210	6	22.53	49,200
9	10.18	2,900	12	8.33	1,410	12	10.41	2,220	7	22.89	50,200
N	11.09	2,950		April 29			May 3		8	23.08	50,500
3	11.62	3,090	6	7.85	1,260	1	10.40	2,220	9	23.13	49,800
6	12.00	3,240	N	7.47	1,170	2	10.39	2,230	10	23.12	49,400
9	12.36	3,400	6	7.28	1,160	3	10.40	2,330	11	23.11	48,800
12	12.59	3,530	12	7.21	1,130	4	10.53	2,560	12	22.96	47,300
	April 26			April 30		5	10.83	3,100		May 4	
6	12.93	3,770	6	7.43	1,250	6	11.35	3,560	1	22.81	46,400
N	13.18	3,960	N	8.22	1,710	7	12.22	4,440	2	22.61	44,900
6	13.29	4,030	6	9.76	2,700	8	13.10	4,700	3	22.45	43,900

Tickfaw River at Holden, La.

Location.--Lat 30°30'13", long 90°40'38" in sec. 26, T. 6 S., R. 5 E., St. Helena meridian, on U. S. Highway 190, half a mile west of Holden and 5.1 miles upstream from Big Branch. Datum of gage is 19.15 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--242 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 6,500 cfs and extended to peak stage. Shifting-control method used May 28 to June 28.
Maxima.--April-June 1953: Discharge, 8,400 cfs 7 a.m. May 20 (gage height, 18.97 ft). 1940 to March 1953: Discharge, 9,680 cfs Mar. 22, 1943, (gage height, 19.75 ft, from graph based on gage readings) from rating curve extended above 6,500 cfs.
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	209	923	187	11	188	483	133	21	140	4,690	125
2	197	613	175	12	173	376	133	22	137	3,200	152
3	191	4,860	166	13	165	338	130	23	136	2,160	138
4	180	5,920	158	14	158	309	128	24	143	1,310	149
5	173	5,240	152	15	152	335	124	25	635	583	172
6	177	5,240	149	16	156	425	122	26	1,570	411	149
7	212	3,800	147	17	167	720	119	27	2,060	338	135
8	281	2,750	145	18	176	1,200	117	28	1,370	287	254
9	260	1,990	140	19	169	3,050	116	29	512	248	526
10	217	934	138	20	148	7,600	116	30	710	223	950
								31	-	202	-
Monthly mean discharge, in cubic feet per second									372	1,960	185
Runoff, in acre-feet									-	-	-
Runoff, in inches									1.72	9.34	0.85

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		12	8.09	778	4	13.52	2,590	8	13.43	2,540
12	3.65	134		May 2		12	13.13	2,360	10	13.53	2,600
	April 24		4	7.74	708		May 9		N	13.61	2,650
6	3.65	134	8	7.37	637	8	12.66	2,120	2	13.68	2,690
N	3.65	134	N	7.03	574	4	12.12	1,890	4	13.83	2,800
6	3.75	142	4	6.76	529	12	11.16	1,550	6	14.24	3,080
12	4.28	188	8	6.64	507		May 10		8	15.10	3,760
	April 25		12	7.56	672	4	10.34	1,320	10	16.59	5,170
4	4.78	240		May 3		8	9.35	1,060	12	17.70	6,500
8	5.64	351	1	8.27	817	N	8.36	840		May 20	
N	7.27	619	2	8.98	975	4	7.70	700	2	18.39	7,500
4	8.46	859	3	9.49	1,100	8	7.27	620	4	18.80	8,130
8	9.30	1,050	4	10.35	1,320	12	6.97	569	6	18.95	8,370
12	9.88	1,190	5	12.17	1,910		May 11		7	18.97	8,400
	April 26		6	13.63	2,660	N	6.44	475	8	18.95	8,370
4	10.38	1,330	7	14.55	3,320	12	6.06	414	10	18.87	8,240
8	10.85	1,460	8	15.28	3,910		May 12		N	18.70	7,970
N	11.27	1,580	9	16.23	4,800	N	5.80	375	2	18.52	7,700
4	11.60	1,690	10	16.85	5,460	12	5.57	341	4	18.33	7,420
8	11.88	1,790	11	17.23	5,900		May 13		6	18.11	7,080
12	12.15	1,900	N	17.47	6,190	N	5.59	344	8	17.90	6,780
	April 27		1	17.66	6,440	12	5.44	323	10	17.70	6,500
4	12.37	1,990	2	17.78	6,610		May 14		12	17.48	6,200
8	12.52	2,060	3	17.85	6,710	N	5.31	304		May 21	
N	12.62	2,100	4	17.92	6,810	12	5.32	306	8	16.69	5,280
4	12.68	2,130	5	17.97	6,890		May 15		4	15.94	4,510
8	12.62	2,100	6	18.00	6,920	N	5.57	341	12	15.28	3,910
12	12.46	2,030	7	18.01	6,940	12	5.64	351		May 22	
	April 28		8	18.00	6,920		May 16		6	14.80	3,520
4	12.12	1,880	9	17.98	6,890	6	5.73	364	N	14.36	3,180
8	11.49	1,650	10	17.94	6,840	N	5.92	393	6	13.94	2,870
N	10.56	1,380	11	17.88	6,750	6	6.45	476	12	13.52	2,590
4	9.48	1,100	12	17.80	6,640	12	7.07	583		May 23	
8	8.45	860		May 4			May 17		6	13.12	2,360
12	7.66	690	4	17.50	6,230	6	7.46	653	N	12.70	2,140
	April 29		8	17.22	5,890	N	7.77	714	6	12.30	1,960
4	7.13	593	N	17.10	5,740	6	8.10	780	12	11.86	1,780
8	6.70	519	4	17.12	5,760	12	8.42	850		May 24	
N	6.39	466	8	17.10	5,740		May 18		4	11.53	1,670
4	6.21	438	12	17.06	5,700	2	8.54	877	8	11.08	1,520
8	6.36	462		May 5		4	8.62	894	N	10.43	1,340
12	6.55	494	6	16.91	5,530	6	8.69	910	4	9.62	1,130
	April 30		N	16.59	5,170	8	8.75	923	8	8.72	920
4	6.91	555	6	16.37	4,940	10	8.79	932	12	7.98	760
8	7.29	622	12	16.39	4,960	N	8.84	935		May 25	
N	7.73	706		May 6		2	9.04	990	4	7.46	653
4	8.14	789	8	16.59	5,170	4	10.34	1,320	8	7.10	588
8	8.51	870	4	16.41	4,990	6	11.13	1,540	N	6.84	543
12	8.82	938	12	15.56	4,160	8	11.67	1,710	4	6.64	509
	May 1			May 7		10	12.14	1,900	8	6.49	483
4	8.98	975	8	15.46	4,070	12	12.56	2,080	12	6.34	458
8	9.01	982	4	14.95	3,640		May 19			May 26	
N	8.92	961	12	14.40	3,200	2	12.85	2,220	6	6.18	433
4	8.72	916		May 8		4	13.12	2,360	N	6.03	410
8	8.42	850	8	13.93	2,870	6	13.30	2,460	12	5.76	370

Natalbany River at Baptist, La.

Location.--Lat 30°30'15", long 90°32'45", in NE¼NW¼ sec. 30, T. 6 S., R. 7 E., St. Helena meridian, on U. S. Highway 190, 0.7 mile downstream from Still Branch and 0.7 mile west of Baptist. Datum of gage is 11.28 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--79.5 sq mi.
Gage-height record.--Water-stage recorder graph except May 10-15, May 24 to June 2 and June 4-19.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 5,900 cfs and extended to peak stage. Shifting-control method used Apr. 1-24 and June 21-28. Discharge for May 10-15, May 24 to June 2, and June 4-19 estimated on basis of records for stations on nearby streams.
Maxima.--April-June 1953: Discharge, 9,550 cfs 3 p.m. May 3 (gage height, 19.73 ft). 1943 to March 1953: Discharge, 5,540 cfs June 7, 1950 (gage height, 16.57 ft, from graph based on gage readings).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	38	603	43	11	35	90	35	21	14	644	255
2	33	273	41	12	31	75	33	22	13	258	50
3	31	6,780	40	13	27	85	31	23	12	178	26
4	28	5,680	38	14	25	70	30	24	65	140	18
5	26	1,960	36	15	26	60	28	25	1,620	110	24
6	95	693	35	16	33	141	27	26	1,030	85	19
7	184	334	33	17	29	111	25	27	418	70	16
8	116	213	31	18	22	891	25	28	163	60	1,020
9	.64	155	30	19	19	2,580	35	29	145	55	1,620
10	46	120	29	20	18	1,920	219	30	643	50	778
								31	-	45	-
Monthly mean discharge, in cubic feet per second									168	791	156
Runoff, in acre-feet									-	-	-
Runoff, in inches									2.36	11.47	2.18

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		4	6.30	111	6	19.53	9,290	5	5.67	94
12	5.01	12	6	6.25	106	7	19.45	9,180	6	5.67	94
2	5.01	12	8	6.22	102	8	19.35	9,060	7	5.66	93
4	5.01	12	10	6.17	97	9	19.25	8,920	8	5.66	93
6	5.01	12	N	6.15	94	10	19.14	8,770	9	5.65	92
8	5.01	12	2	6.11	90	11	19.02	8,630	10	5.65	92
10	5.01	12	4	6.10	89	12	18.88	8,440	11	5.65	92
N	5.01	12	6	6.24	104		May 4		N	5.65	92
2	5.00	12	8	7.24	233	2	18.60	8,080	1	5.65	92
4	5.00	12	10	8.00	344	4	18.23	7,630	2	5.79	107
6	5.49	44	12	8.32	396	6	17.82	7,130	3	7.00	272
8	6.65	161		April 30		8	17.30	6,510	4	10.40	950
10	7.02	207	4	9.42	609	10	16.80	5,920	5	11.55	1,330
12	9.00	523	8	9.83	700	N	16.36	5,440	6	12.50	1,840
	April 25		N	9.74	679	2	16.00	5,040	7	13.17	2,350
2	10.83	980	4	9.67	663	4	15.60	4,620	8	13.59	2,710
4	11.75	1,380	8	9.71	672	6	15.26	4,280	9	13.79	2,890
6	12.20	1,630	12	9.71	672	8	14.92	3,940	10	13.90	2,990
8	12.42	1,770		May 1		10	14.61	3,630	11	14.05	3,120
10	12.49	1,820	4	9.67	663	12	14.28	3,330	12	14.04	3,120
N	12.55	1,860	8	9.62	652		May 5			May 19	
2	12.55	1,860	N	9.52	630	4	13.59	2,710	4	13.85	2,940
4	12.54	1,860	4	9.34	592	8	13.02	2,230	8	13.68	2,790
6	12.56	1,870	8	9.02	527	N	12.54	1,870	N	13.39	2,530
8	12.42	1,770	12	8.55	437	4	11.99	1,540	4	13.12	2,310
10	12.22	1,640		May 2		8	11.35	1,250	8	13.01	2,220
12	11.97	1,490	4	7.98	341	12	10.77	1,050	12	13.08	2,270
	April 26		8	7.55	276		May 6			May 20	
4	11.48	1,240	N	7.24	233	4	10.23	908	4	13.17	2,350
8	11.14	1,100	4	7.05	206	8	9.70	775	8	13.10	2,290
N	10.88	998	8	6.90	186	N	9.19	663	N	12.81	2,060
4	10.65	920	12	8.07	355	4	8.70	569	4	12.34	1,730
8	10.36	833		May 3		8	8.31	497	8	11.71	1,400
12	10.00	740	1	9.70	775	12	7.98	437	12	11.01	1,120
	April 27		2	10.80	1,060		May 7			May 21	
4	9.48	622	3	11.60	1,350	6	7.62	375	4	10.32	930
8	8.81	486	4	12.40	1,770	N	7.34	328	8	9.60	750
N	8.13	365	5	13.35	2,500	6	7.10	288	N	8.83	593
4	7.68	296	6	14.55	3,580	12	6.90	256	4	8.17	472
8	7.39	254	7	16.15	5,200		May 8		8	7.71	391
12	7.19	226	8	17.45	6,690	6	6.73	230	12	7.41	340
	April 28		9	18.30	7,710	N	6.60	211		May 22	
4	6.99	198	10	18.89	8,460	6	6.47	193	6	7.10	288
8	6.83	177	11	19.20	8,860	12	6.37	179	N	6.87	252
N	6.70	160	N	19.50	9,250		May 18		6	6.67	222
4	6.57	143	1	19.62	9,410	12	5.70	97	12	6.52	200
8	6.46	130	2	19.71	9,520	1	5.69	96		May 23	
12	6.37	119	3	19.73	9,550	2	5.68	95	6	6.44	189
	April 29		4	19.67	9,470	3	5.68	95	N	6.36	177
2	6.34	116	5	19.60	9,380	4	5.67	94	6	6.29	168
									12	6.22	159

Amite River near Darlington, La.

Location.--Lat 30°53'20", long 90°50'40", in lot 72, T. 2 S., R. 4 E., St. Helena meridian, on State Highway 35, 1.5 miles upstream from Collins Creek and 3.9 miles west of Darlington. Datum of gage is 143.80 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--580 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used May 27 to June 28.
Maxima.--April-June 1953: Discharge, 18,900 cfs 8 a.m. May 20 (gage height, 14.64 ft). 1950 to March 1953: Discharge, 31,600 cfs Mar. 30, 1951 (gage height, 16.05 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	483	5,790	429	11	447	780	438	21	414	10,700	348
2	468	5,120	405	12	414	688	351	22	372	4,340	429
3	477	5,840	387	13	452	872	339	23	351	1,480	363
4	438	8,200	378	14	872	2,640	336	24	380	1,050	330
5	414	11,400	369	15	622	3,940	320	25	1,400	859	320
6	504	13,400	369	16	542	4,860	312	26	2,620	731	336
7	732	7,150	363	17	538	4,660	308	27	2,590	643	369
8	816	2,100	354	18	471	4,830	305	28	1,390	570	602
9	612	1,170	345	19	411	9,250	302	29	820	510	1,390
10	507	915	342	20	447	17,100	330	30	2,850	477	980
								31	-	447	-
Monthly mean discharge, in cubic feet per second									795	4,275	418
Runoff, in acre-feet									-	-	-
Runoff, in inches									1.53	8.50	0.80

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24			May 1			May 9			May 19	
12	2.15	345	6	10.52	4,860	N	4.39	1,160	6	12.01	7,350
6	2.14	342	N	11.31	6,020	12	4.02	1,010	N	12.35	8,180
N	2.14	342	6	11.80	6,900		May 10		6	13.07	10,500
6	2.33	399	12	11.73	6,760	N	3.77	910	12	14.05	15,100
12	2.75	528		May 2		12	3.58	830		May 20	
	April 25		6	11.22	5,870		May 11		4	14.47	17,700
6	3.93	972	N	10.62	4,990	N	3.43	770	8	14.64	18,900
N	5.08	1,440	6	10.05	4,310	12	3.38	750	N	14.56	18,300
6	5.86	1,810	12	9.53	3,850		May 12		4	14.39	17,100
12	6.74	2,260		May 3		N	3.20	685	8	14.19	15,900
	April 26		6	10.41	4,710	12	3.05	632	12	13.96	14,600
6	7.32	2,580	N	11.31	6,020		May 13			May 21	
N	7.53	2,690	6	11.87	7,050	6	3.04	629	6	13.55	12,600
6	7.56	2,710	12	11.99	7,310	N	3.24	699	N	13.06	10,400
12	7.59	2,720		May 4		6	3.92	968	6	12.54	8,720
	April 27		N	12.39	8,280	12	5.74	1,750	12	12.01	7,350
6	7.58	2,720	12	12.61	8,930		May 14			May 22	
N	7.47	2,660		May 5		6	6.86	2,320	6	11.27	5,950
6	7.24	2,530	6	12.68	9,140	N	7.55	2,700	N	9.74	4,020
12	6.60	2,180	N	12.91	9,840	6	8.05	2,980	6	7.63	2,750
	April 28		6	13.91	14,400	12	8.79	3,380	12	6.02	1,890
6	5.67	1,720	12	14.11	15,500		May 15			May 23	
N	4.69	1,280		May 6		N	9.59	3,900	N	5.03	1,420
6	4.05	1,020	N	13.83	14,000	12	10.30	4,580	12	4.48	1,190
12	3.70	880	12	12.98	10,100		May 16			May 24	
	April 29			May 7		N	10.56	4,910	N	4.10	1,040
6	3.44	776	6	12.48	8,540	12	10.64	5,020	12	3.85	940
N	3.28	713	N	11.97	7,260		May 17			May 25	
6	3.38	752	6	11.20	5,840	N	10.57	4,920	N	3.64	856
12	4.49	1,200	12	9.49	3,820	12	9.43	3,780	12	3.46	784
	April 30			May 8			May 18			May 26	
6	6.76	2,270	6	7.10	2,460	6	9.69	3,980	N	3.32	728
N	8.15	3,030	N	5.84	1,800	N	9.99	4,250	12	3.20	685
6	8.99	3,500	6	5.29	1,540	6	11.17	5,790			
12	9.74	4,020	12	4.90	1,360	12	11.77	6,840			

Comite River near Olive Branch, La.

Location.--Lat 30°45'35", long 91°02'50", between lots 41 and 42, T. 3 S., R. 2 E., St. Helena meridian, on State Highway 36, 500 ft downstream from Knighton Bayou and 1.8 miles northeast of Olive Branch. Datum of gage is 115.65 ft above mean sea level (Louisiana Geodetic Survey benchmark).
Drainage area.--149 sq mi.
Gage-height record.--Water-stage recorder graph except May 24 to June 27, and June 30. Graph drawn on basis of wire-weight gage readings May 24 to June 4.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 9,800 cfs and extended to peak stage. Discharge for June 5-27, 30, estimated on basis of records for station near Comite.
Maxima.--April-June 1953: Discharge, 13,300 cfs 4 p.m. May 18 (gage height, 20.12 ft).
1942 to March 1953: Discharge,12,400 cfs Feb. 6, 1943 (gage height, 20.6 ft, from graph based on gage readings).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	117	1,390	87	11	106	130	69	21	83	1,080	60
2	113	505	83	12	103	228	75	22	80	319	70
3	107	2,010	81	13	98	492	100	23	79	212	63
4	102	2,620	79	14	91	1,120	75	24	241	161	60
5	97	2,900	77	15	114	1,350	70	25	1,740	140	70
6	286	3,350	75	16	108	994	68	26	925	126	65
7	586	646	73	17	99	724	66	27	253	114	100
8	235	248	72	18	107	7,920	64	28	148	106	469
9	153	168	71	19	177	5,900	62	29	184	100	574
10	123	138	70	20	94	2,820	61	30	1,070	94	175
								31	-	89	-
Monthly mean discharge, in cubic feet per second									261	1,232	106
Runoff, in acre-feet									-	-	-
Runoff, in inches									1.95	9.53	0.79

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		6	10.64	1,540	N	6.40	477	12	7.82	802
12	3.97	78	12	9.90	1,340	4	6.08	408		May 17	
	April 24			May 2		8	5.84	358	2	7.72	778
2	3.97	78	3	8.52	975	12	5.67	322	4	7.62	754
4	3.97	78	6	7.12	638		May 8		6	7.54	735
6	3.97	78	9	6.26	447	N	5.27	240	8	7.42	717
8	3.97	78	N	5.79	348	12	5.00	192	10	7.31	681
10	3.97	78	3	5.55	298		May 9		N	7.19	654
N	3.97	78	6	5.42	270	N	4.82	166	2	7.05	622
2	3.97	78	9	5.33	252	12	4.70	150	4	6.90	587
4	4.49	126	12	5.47	280		May 10		6	6.74	552
6	5.08	206		May 3		N	4.59	137	8	6.60	521
8	6.70	543	2	6.85	576	12	4.50	127	10	7.90	821
10	8.05	857	4	9.00	1,100		May 11		12	11.30	1,730
12	9.24	1,160	6	10.70	1,560	4	4.48	125		May 18	
	April 25		8	12.00	1,920	8	4.44	120	2	15.15	2,980
4	11.67	1,830	10	12.78	2,150	N	4.42	118	4	16.89	4,290
8	12.73	2,130	N	13.25	2,280	4	4.40	116	6	17.36	4,910
N	12.49	2,060	2	13.59	2,390	8	4.39	115	8	17.55	5,210
4	11.39	1,750	4	13.84	2,460	12	5.32	250	10	17.76	5,620
8	10.33	1,460	6	14.12	2,550		May 12		N	18.75	8,350
12	9.78	1,300	8	14.45	2,680	6	5.73	335	2	19.75	11,800
	April 26		10	14.83	2,840	N	5.20	227	4	20.12	13,300
4	9.47	1,220	12	15.14	2,980	6	4.76	158	6	19.94	12,600
8	9.07	1,110		May 4		12	4.54	131	8	19.63	11,400
N	8.66	1,010	6	15.19	3,000		May 13		10	19.23	10,000
4	7.81	799	N	14.18	2,570	2	4.50	127	12	18.89	8,820
8	6.78	561	6	13.31	2,300	4	4.48	125		May 19	
12	6.04	400	12	13.15	2,260	6	4.46	123	6	18.20	6,740
	April 27			May 5		8	4.58	136	N	17.80	5,700
6	5.47	271	4	13.00	2,210	10	4.68	148	6	17.27	4,780
N	5.29	244	8	12.89	2,180	N	5.40	266	12	16.52	3,920
6	5.10	209	N	13.42	2,340	2	6.59	519		May 20	
12	4.90	177	4	15.10	2,960	4	7.54	735	6	15.49	3,150
	April 28		8	16.85	4,240	6	8.39	942	N	14.59	2,740
N	4.64	143	12	17.18	4,650	8	8.88	1,070	6	13.65	2,400
12	4.50	127		May 6		10	9.00	1,100	12	12.58	2,090
	April 29		2	17.20	4,680	12	8.96	1,090		May 21	
6	4.44	120	4	17.12	4,580		May 14		4	11.65	1,830
N	4.40	116	6	16.88	4,280	6	9.00	1,100	8	10.14	1,400
6	4.74	155	8	16.58	3,970	N	9.08	1,120	N	8.25	902
12	6.80	565	10	16.13	3,580	6	9.04	1,110	4	7.10	620
	April 30		N	15.60	3,220	12	9.37	1,190	8	6.55	492
4	7.89	819	2	15.05	3,190		May 15		12	6.25	425
8	8.77	1,040	4	14.50	2,700	6	10.33	1,460		May 22	
N	9.23	1,160	6	13.88	2,470	N	10.54	1,520	6	5.91	352
4	9.47	1,220	8	13.22	2,280	6	9.62	1,260	N	5.71	311
8	9.59	1,250	10	12.34	2,020	12	9.03	1,100	6	5.54	278
12	9.64	1,260	12	11.22	1,710		May 16		12	5.38	247
	May 1			May 7		6	8.93	1,080		May 23	
6	9.76	1,300	4	8.59	992	N	8.74	1,030	N	5.17	210
N	10.19	1,420	8	7.06	624	6	8.27	914	12	5.00	182

Comite River near Comite, La.

Location.--Lat 30°30'45", long 91°04'25", in NW¼ sec. 24, T. 6 S., R. 1 E., St. Helena meridian, on State Highway 877, half a mile downstream from Blackwater Bayou and 2.6 miles west of Comite. Datum of gage is 28.35 ft above mean sea level (Louisiana Geodetic Survey benchmark; levels by Louisiana Department of Public Works).
Drainage area.--332 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 11,000 cfs and extended to peak stage. Shifting-control method used May 20-22, May 25 to June 28. Rate of change of stage used as a factor Apr. 7, 8, 24-28, Apr. 30 to May 5, May 7-9, 13-23, and June 28-30.
Maxima.--April-June 1953: Discharge, 20,500 cfs 6 p.m. May 19 (gage height, 25.64 ft).
1944 to March 1953: Discharge, 11,500 cfs Mar. 30, 1951 (gage height, 22.62 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	195	2,410	157	11	174	316	103	21	157	8,870	79
2	180	1,920	147	12	148	305	103	22	110	3,740	79
3	164	3,770	136	13	131	477	104	23	100	1,610	90
4	150	7,030	132	14	117	1,750	115	24	425	763	82
5	139	6,470	126	15	114	2,120	107	25	4,150	418	93
6	137	5,620	122	16	115	2,400	96	26	5,550	312	108
7	1,110	5,130	118	17	115	1,780	90	27	2,660	270	85
8	1,000	1,970	115	18	122	4,570	86	28	1,120	233	1,100
9	532	664	113	19	395	18,000	84	29	487	206	1,420
10	247	397	107	20	256	17,200	82	30	1,490	186	616
								31	-	170	-
Monthly mean discharge, in cubic feet per second									726	3,261	200
Runoff, in acre-feet									-	-	-
Runoff, in inches									2.44	11.32	0.67

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24			April 30		N	20.35	5,580	12	15.61	2,270
12	5.84	98	4	10.03	743	6	19.68	4,310		May 17	
2	5.84	98	8	10.95	1,010	12	18.49	3,230	6	15.14	2,060
4	5.83	97	N	12.36	1,500		May 8		N	14.38	1,780
6	5.81	95	4	13.55	1,880	6	17.00	2,460	6	13.45	1,520
8	5.81	95	8	14.47	2,190	N	15.34	1,860	12	12.40	1,260
10	5.81	95	12	16.15	2,710	6	13.68	1,430		May 18	
N	5.81	95		May 1		12	11.85	1,060	4	12.91	1,850
2	5.88	102	6	15.79	2,510		May 9		8	15.25	2,770
4	6.18	133	N	15.99	2,480	6	10.32	785	N	17.19	3,710
6	6.77	203	6	15.58	2,230	N	9.34	605	4	19.79	4,610
8	9.21	582	12	15.18	2,150	6	8.76	505	8	21.37	8,110
10	12.55	2,070		May 2		12	8.48	458	12	22.60	11,500
12	14.67	2,770	6	15.05	2,150		May 10			May 19	
	April 25		N	14.91	2,030	N	8.09	392	6	24.28	16,300
4	16.90	3,250	6	13.96	1,570	12	7.80	346	N	25.31	19,500
8	18.19	3,570	12	13.05	1,690		May 11		6	25.64	20,500
N	19.09	3,930		May 3		N	7.59	315	12	25.57	20,000
4	19.77	4,540	4	14.81	2,810	12	7.39	287		May 20	
8	20.22	5,310	8	17.31	3,310		May 12		6	25.35	18,900
12	20.48	5,870	N	18.65	3,750	6	7.32	277	N	25.03	17,500
	April 26		4	19.45	4,180	N	7.25	267	6	24.62	15,500
6	20.65	6,260	8	20.01	4,900	6	7.74	337	12	24.14	13,400
N	20.52	5,960	12	20.40	5,690	12	8.06	388		May 21	
6	20.11	5,090		May 4			April 13		6	23.47	11,100
12	19.34	3,940	4	20.70	6,380	4	7.86	356	N	22.59	8,400
	April 27		8	20.92	6,940	8	7.89	360	6	21.81	6,600
6	18.41	3,250	N	21.04	7,250	N	8.20	410	12	20.94	5,350
N	17.05	2,550	4	21.13	7,490	4	8.42	447		May 22	
6	15.62	2,060	8	21.15	7,540	8	9.42	620	6	19.96	4,370
12	14.23	1,640	12	21.12	7,460	12	10.65	948	N	19.02	3,650
	April 28			May 5			April 14		6	18.01	3,030
6	12.97	1,360	6	20.99	7,120	6	12.64	1,580	12	16.91	2,470
N	11.81	1,090	N	20.71	6,400	N	14.00	1,970		May 23	
6	10.70	869	6	20.49	5,890	6	14.56	2,040	6	15.37	1,930
12	9.73	677	12	20.31	5,500	12	14.43	1,910	N	14.00	1,530
	April 29			May 6			April 15		6	12.48	1,230
6	8.78	509	N	20.30	5,480	N	14.50	2,060	12	11.31	1,010
N	8.14	400	12	20.55	6,020	12	15.61	2,440		May 24	
6	8.22	413		May 7			April 16		N	10.04	738
12	9.18	577	6	20.55	6,020	N	15.94	2,440	12	9.11	565

Amite River near Denham Springs, La.

Location.--Lat 30°27'50", long 90°59'25", in lot 2, T. 7 S., R. 2 E., St. Helena meridian, 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. Datum of gage is 3.87 ft above mean sea level, datum of 1929, supplementary adjustment of 1941. Auxiliary gage 3 miles downstream.
Drainage area.--1,330 sq mi.
Gage-height record.--Water-stage recorder graph at both gages.
Discharge record.--Fall-stage-discharge relation defined by current-meter measurements below 44,000 cfs and extended to peak stage.
Maxima.--April-June 1953: Discharge, 67,000 cfs 4 a.m. May 20; gage height, 32.46 ft 9 a.m. May 20.
1938 to March 1953: Discharge, 45,100 cfs Mar. 5, 1948 (gage height, 29.59 ft). Stage known, 35.4 ft Mar. 15, 1921, from floodmark.
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,230	5,450	1,180	11	1,100	2,350	766	21	897	48,000	616
2	1,170	7,350	1,110	12	974	1,780	820	22	795	33,300	650
3	1,080	16,800	1,040	13	880	1,820	800	23	711	17,800	810
4	1,050	23,400	981	14	811	2,770	767	24	738	7,350	783
5	968	28,000	942	15	1,050	4,880	749	25	5,090	3,600	682
6	950	24,000	906	16	1,030	6,980	717	26	10,300	2,290	683
7	1,510	21,500	870	17	959	8,520	682	27	10,900	1,870	666
8	2,960	18,400	854	18	923	9,360	665	28	7,800	1,670	2,010
9	2,140	9,140	838	19	1,130	41,400	649	29	4,280	1,490	4,120
10	1,400	4,000	801	20	1,150	63,500	633	30	2,990	1,370	3,710
								31	-	1,260	-
Monthly mean discharge, in cubic feet per second									2,299	13,590	1,050
Runoff, in acre-feet									-	-	-
Runoff, in inches									1.93	11.78	0.88

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		12	20.84	11,600	10	22.92	16,800	6	19.59	6,900
12	6.53	687		April 27		N	23.46	19,000	12	18.34	5,550
	April 24		4	20.95	11,600	2	23.74	20,200		May 10	
2	6.52	684	8	20.96	11,400	4	23.92	20,600	6	17.09	4,510
4	6.51	681	N	20.87	11,000	6	24.04	20,800	N	15.88	3,850
6	6.50	678	4	20.73	10,600	8	24.12	20,900	6	14.76	3,370
8	6.49	676	8	20.53	10,100	10	24.13	20,900	12	13.72	2,950
10	6.48	672	12	20.29	9,660	12	24.22	21,000		May 11	
N	6.47	669		April 28			May 4		6	12.78	2,570
2	6.47	669	6	19.82	8,740	6	24.33	21,400	N	12.01	2,300
4	6.52	682	N	19.24	7,810	N	24.60	23,000	6	11.32	2,070
6	6.60	711	6	18.52	6,830	6	24.96	25,100	12	10.80	1,940
8	6.80	784	12	17.68	5,970	12	25.32	26,900		May 12	
10	7.27	945		April 29			May 5		6	10.36	1,830
12	8.22	1,320	6	16.60	5,050	3	25.49	27,700	N	10.04	1,760
	April 25		N	15.32	4,150	6	25.63	28,300	6	9.79	1,710
2	9.92	2,140	6	14.10	3,470	9	25.73	28,600	12	9.65	1,730
4	11.48	2,970	12	13.00	2,950	N	25.78	28,600		May 13	
6	12.72	3,790		April 30		3	25.80	28,400	6	9.62	1,770
8	13.64	4,390	6	12.22	2,660	6	25.77	27,900	N	9.75	1,840
10	14.36	4,980	N	12.05	2,730	9	25.71	27,500	6	9.69	1,850
N	14.93	5,390	6	12.42	3,130	12	25.62	27,000	12	9.74	1,920
2	15.47	5,780	12	13.37	3,920		May 6			May 14	
4	15.93	6,110		May 1		6	25.36	25,500	6	10.24	2,260
6	16.40	6,520	6	14.47	4,790	N	25.05	23,800	N	10.95	2,690
8	16.88	6,980	N	15.50	5,520	6	24.73	22,400	6	11.80	3,250
10	17.29	7,420	6	16.29	6,190	12	24.48	21,700	12	12.72	3,840
12	17.72	7,940	12	16.89	6,660		May 7			May 15	
	April 26			May 2		6	24.32	21,300	6	13.70	4,480
2	18.12	8,460	4	17.20	6,860	N	24.27	21,400	N	14.38	4,900
4	18.50	8,880	8	17.48	7,120	6	24.27	21,600	6	14.99	5,310
6	18.83	9,360	N	17.70	7,270	12	24.25	21,600	12	15.69	5,810
8	19.18	9,770	4	17.92	7,490		May 8			May 16	
10	19.48	10,200	8	18.17	7,320	6	24.10	20,600	6	16.40	6,390
N	19.77	10,600	12	18.84	8,440	N	23.79	18,900	N	17.10	7,040
2	20.02	10,800		May 3		6	23.32	16,600	6	17.70	7,560
4	20.28	11,200	2	19.60	9,420	12	22.70	13,700	12	18.21	8,020
6	20.47	11,300	4	20.68	11,100		May 9			May 17	
8	20.62	11,300	6	21.59	12,600	6	21.90	11,200	6	18.63	8,400
10	20.75	11,500	8	22.30	14,400	N	20.83	8,820	N	18.94	8,630

Amite River near Denham Springs, La.--Continued

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
6	19.12	8,710	6	30.03	58,400	12	31.23	56,300		May 24	
12	19.22	8,630	8	30.72	61,300		May 21		6	20.60	8,780
	May 18		10	31.26	63,800	6	30.49	52,200	N	19.39	7,050
6	19.20	8,460	12	31.72	65,800	N	29.75	47,700	6	18.18	5,770
N	19.10	8,240		May 20		6	29.05	43,600	12	16.93	4,700
6	20.02	9,670	2	32.04	66,400	12	28.44	40,500		May 25	
12	21.52	13,500	4	32.26	67,000		May 22		6	15.78	4,080
	May 19		6	32.41	66,600	6	27.83	37,000	N	14.67	3,570
2	22.12	15,400	8	32.45	66,200	N	27.19	33,800	6	13.61	3,070
4	22.80	18,100	10	32.45	65,900	6	26.40	29,600	12	12.70	2,680
6	23.75	23,500	N	32.38	64,800	12	25.56	25,400		May 26	
8	24.81	30,100	2	32.24	63,200		May 23		N	11.39	2,240
10	26.01	37,600	4	32.09	62,100	6	24.70	21,600	12	10.53	2,010
N	27.20	44,300	6	31.90	60,500	N	23.79	17,800		May 27	
2	28.25	50,200	8	31.70	59,900	6	22.74	13,600	N	9.96	1,860
4	29.17	54,900	10	31.45	57,800	12	21.74	10,900	12	9.54	1,740
										May 28	
									N	9.23	1,670
									12	8.98	1,590

Ward Creek at Siegen Lane, near Baton Rouge, La.

Location.--Lat 30°22'30", long 91°04'10", in lot 54, T. 8 S., R. 1 E., St. Helena meridian, on Siegen Lane, half a mile downstream from Dawson Creek and 8 miles southeast of Baton Rouge. Datum of gage is at mean sea level (Louisiana Geodetic Survey benchmark; levels by Louisiana Department of Public Works).
Drainage area.--40.0 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used June 25-27.
Maxima.--April-June 1953: Discharge, 3,840 cfs 6 p.m. May 3 (gage height, 24.70 ft).
1946 to March 1953: Discharge, 3,900 cfs Mar. 13, 1947 (gage height, 23.49 ft).
Remarks.--Flood runoff not affected by artificial discharge. Low flow maintained by sewage effluent from Baton Rouge suburbs. Small occasional diversion above station for oil-field operation.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	41	85	5.6	11	11	184	5.2	21	3.6	452	3.5
2	30	81	5.3	12	8.0	144	19	22	3.3	312	3.7
3	29	2,690	4.9	13	7.4	132	80	23	3.6	255	6.0
4	18	2,880	4.6	14	5.9	102	37	24	34	204	7.3
5	13	1,550	4.4	15	5.6	180	17	25	672	153	4.6
6	25	862	4.9	16	26	203	8.1	26	564	106	4.6
7	80	607	4.9	17	13	112	5.9	27	253	70	5.2
8	32	459	4.7	18	6.8	261	4.9	28	165	37	225
9	18	331	5.3	19	5.9	1,320	4.3	29	134	15	249
10	13	247	5.3	20	5.5	810	3.9	30	142	8.7	128
								31	-	6.6	-
Monthly mean discharge, in cubic feet per second									79.0	479	29.1
Runoff, in acre-feet									-	-	-
Runoff, in inches									2.20	13.82	0.81

Ward Creek at Siegen Lane, near Baton Rouge, La.--Continued

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		12	11.99	69	12	19.20	529	6	15.94	232
12	8.29	3.7		May 2			May 8		12	15.05	182
	April 24		2	11.92	68	6	18.97	494		May 17	
2	8.70	3.8	4	11.84	66	N	18.68	456	6	14.04	135
4	8.70	3.8	6	11.78	64	6	18.40	423	N	13.25	104
6	8.71	3.9	8	11.70	62	12	18.12	395	6	12.57	82
8	8.71	3.9	10	11.65	61		May 9		12	12.08	72
10	8.71	3.9	N	11.57	59	6	17.73	360		May 18	
N	8.71	3.9	2	11.50	57	N	17.33	327	2	11.94	68
2	8.73	4.1	4	11.42	55	6	16.96	299	4	11.81	65
4	8.82	5.0	6	11.33	53	12	16.68	280	6	11.69	62
6	9.06	8.1	8	11.34	54		May 10		8	11.56	59
8	9.83	22	10	13.85	127	6	16.44	263	10	11.45	56
10	14.50	155	12	18.40	423	N	16.18	247	N	11.35	54
12	18.00	384		May 3		6	15.92	231	2	11.49	57
	April 25		2	19.95	670	12	15.68	217	4	16.80	288
4	19.50	581	4	20.53	848		May 11		6	19.56	592
8	19.80	640	6	21.30	1,300	6	15.45	203	8	19.82	644
N	20.12	710	8	22.45	2,120	N	15.18	189	10	20.20	730
4	20.33	770	10	23.50	2,900	6	14.45	152	12	20.51	840
5	20.35	778	N	24.25	3,480	12	14.70	165		May 19	
8	20.33	770	2	24.55	3,720		May 12		3	21.11	1,180
12	20.19	728	4	24.68	3,820	6	14.47	154	6	21.47	1,420
	April 26		6	24.70	3,840	N	14.27	144	9	21.60	1,510
6	19.92	664	8	24.67	3,820	6	14.02	134	N	21.56	1,480
N	19.49	579	10	24.58	3,740	12	13.76	123	3	21.46	1,410
6	18.76	466	12	24.45	3,640		May 13		6	21.34	1,330
12	17.78	364		May 4		6	13.52	114	9	21.20	1,240
	April 27		6	24.03	3,300	N	13.98	132	12	21.02	1,120
6	16.80	288	N	23.50	2,900	6	14.45	152		May 20	
N	16.05	239	6	22.90	2,460	12	14.19	141	6	20.71	936
6	15.55	209	12	22.43	2,100		May 14		N	20.36	781
12	15.17	188		May 5		6	13.59	117	6	19.95	670
	April 28		6	22.00	1,790	N	13.05	98	12	19.51	583
N	14.70	165	N	21.60	1,510	6	12.56	84		May 21	
12	14.25	143	6	21.28	1,290	12	12.21	75	6	19.07	508
	April 29		12	21.00	1,100		May 15		N	18.54	439
N	13.81	125		May 6		4	14.70	165	6	18.09	392
12	14.21	141	6	20.75	958	8	15.85	227	12	17.64	352
	April 30		N	20.51	840	N	15.78	223		May 22	
6	14.84	172	6	20.28	754	4	15.27	194	N	17.09	308
N	14.39	150	12	20.05	692	8	14.67	164	12	16.68	280
6	13.77	124		May 7		12	14.23	142			
12	13.30	106	6	19.84	648		May 16				
	May 1		N	19.62	604	6	14.97	178			
N	12.53	83	6	19.41	565	N	16.06	240			

Atchafalaya River at Krotz Springs, La.

Location.--Lat 30°32'48", long 91°45'04", in sec. 7, T. 6 S., R. 7 E., Louisiana meridian, on U. S. Highway 190, half a mile north of town of Krotz Springs, 0.6 mile upstream from New Orleans, Texas and Mexico Railway bridge, 10 miles upstream from Bayou Courtableau, and 42 miles downstream from confluence of Red River and Old River (head of Atchafalaya River). Datum of gage is at mean Gulf level (datum of Corps of Engineers), and 0.03 ft below mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Corps of Engineers).

Gage-height record.--Water-stage recorder graph.

Discharge record.--Stage-discharge relation defined by current-meter measurements.

Maxima.--April-June 1953: Discharge, 405,000 cfs May 29, 30, 31 (gage height, 32.2 ft in gage well, 33.2 ft from outside gage).

1934 to March 1953: Discharge, 624,000 cfs Mar. 6, 1950; gage height recorded, 37.80 ft in gage well, Feb. 28, 1937.

The flood of May 1927 reached a stage of about 39 ft on the outside gage, from information by Louisiana Department of Highways.

Remarks.--Flow is distributary of Mississippi River through Old River. Flow in Old River can be in either direction.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	305,000	298,000	402,000	11	296,000	322,000	305,000	21	261,000	379,000	210,000
2	303,000	303,000	396,000	12	301,000	319,000	290,000	22	255,000	379,000	206,000
3	301,000	307,000	390,000	13	305,000	322,000	277,000	23	251,000	385,000	204,000
4	296,000	317,000	385,000	14	305,000	322,000	263,000	24	246,000	387,000	200,000
5	292,000	325,000	376,000	15	303,000	325,000	251,000	25	246,000	393,000	198,000
6	292,000	327,000	371,000	16	298,000	327,000	242,000	26	246,000	396,000	195,000
7	290,000	322,000	359,000	17	292,000	338,000	235,000	27	242,000	399,000	192,000
8	290,000	325,000	345,000	18	285,000	365,000	227,000	28	240,000	402,000	188,000
9	290,000	325,000	335,000	19	277,000	376,000	220,000	29	249,000	405,000	182,000
10	294,000	322,000	319,000	20	269,000	379,000	216,000	30	283,000	405,000	177,000
								31	-	402,000	-
Monthly mean discharge, in cubic feet per second									280,100	351,500	271,900
									16,670	21,620	16,180

Bayou Cocodrie near Clearwater, La.

Location.--Lat 31°00'00", long 92°22'46", in NW¼SW¼ sec. 4, T. 1 S., R. 1 E., Louisiana meridian, on State Highway 26, seven-eighths of a mile downstream from Chicago, Rock Island and Pacific Railroad bridge, 1½ miles east of Clearwater, 4 miles south of Meeker, and 5 miles downstream from Hurricane Creek. Datum of gage is 40.00 ft above mean Gulf level (datum of Corps of Engineers).
Drainage area.--240 sq mi.
Gage-height record.--Water-stage recorder graph except May 18-28, which was computed on basis of thrice-daily staff-gage readings.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 13,000 cfs and extended to peak stage. Stage-discharge relation affected by backwater Apr. 29, 30, May 3, 4.
Maxima.--April-June 1953: Discharge, 28,200 cfs about 12 p.m. May 18 (gage height, 26.72 ft).
1922-25, 1937 to March 1953: Discharge, 4,000 cfs Apr. 9, 1938 (gage height, 21.50 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	740	1,050	1,640	11	541	1,580	1,140	21	343	8,300	861
2	719	1,080	1,560	12	525	1,530	1,110	22	314	5,470	841
3	698	1,080	1,490	13	506	1,710	1,090	23	284	4,360	829
4	679	1,360	1,430	14	487	1,990	1,060	24	284	3,660	807
5	658	1,930	1,380	15	470	2,450	1,030	25	365	3,200	783
6	639	2,080	1,340	16	450	2,630	999	26	424	2,850	747
7	622	2,050	1,290	17	432	2,800	971	27	464	2,510	722
8	602	1,900	1,250	18	412	16,600	945	28	461	2,240	710
9	583	1,770	1,210	19	390	25,000	915	29	538	2,040	698
10	561	1,660	1,180	20	368	15,100	890	30	830	1,880	682
								31	-	1,740	-
Monthly mean discharge, in cubic feet per second									513	4,052	1,053
Runoff, in acre-feet									30,520	249,100	62,680
Runoff, in inches									2.38	19.46	4.90

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 28		12	19.92	2,070	12	20.62	2,600	12	25.55	20,000
12	10.10	455		May 6			May 16			May 20	
	April 29		N	20.01	2,070	N	20.68	2,640	4	25.27	18,200
6	10.08	451	12	19.99	2,130	12	20.66	2,630	8	24.98	16,400
N	10.96	541		May 7			May 17		N	24.74	14,900
6	11.45	590	N	19.89	2,050	4	20.64	2,610	4	24.48	13,400
12	12.29	682	12	19.76	1,980	8	20.62	2,600	8	24.24	12,100
	April 30			May 8		N	20.61	2,590	12	24.02	10,900
6	13.37	745	N	19.62	1,900	4	20.60	2,580		May 21	
N	14.12	826	12	19.47	1,830	8	21.18	3,110	6	23.73	9,350
6	14.75	907		May 9		12	21.92	4,020	N	23.48	8,110
12	15.16	1,000	N	19.33	1,770		May 18		6	23.24	7,110
	May 1		12	19.19	1,720	2	22.29	4,620	12	23.04	6,390
N	15.65	1,060		May 10		4	22.75	5,520		May 22	
12	15.81	1,080	N	19.03	1,660	6	23.42	7,840	6	22.86	5,830
	May 2		12	18.89	1,620	8	23.94	10,500	N	22.70	5,400
N	15.84	1,090		May 11		10	24.40	13,000	6	22.54	5,080
12	15.77	1,080	N	18.77	1,580	N	25.06	16,900	12	22.38	4,780
	May 3		12	18.61	1,540	2	25.65	20,600		May 23	
6	15.73	1,070		May 12		4	26.14	24,100	N	22.13	4,360
N	15.67	1,070	N	18.48	1,510	6	26.40	25,900	12	21.88	3,960
6	15.68	1,070	12	18.63	1,550	8	26.53	26,800		May 24	
12	17.10	1,130		May 13		10	26.64	27,600	N	21.66	3,650
	May 4		N	19.20	1,720	12	26.72	28,200	12	21.45	3,390
6	17.58	1,070	12	19.52	1,850		May 19			May 25	
N	18.19	1,330		May 14		4	26.67	27,900	N	21.27	3,200
6	18.84	1,600	N	19.70	1,940	8	26.54	26,900	12	21.09	3,020
12	19.28	1,750	12	20.16	2,230	N	26.33	25,400		May 26	
	May 5			May 15		4	26.08	23,700	N	20.91	2,850
N	19.71	1,950	N	20.47	2,480	8	25.81	21,800	12	20.71	2,670
										May 27	
									N	20.51	2,510
									12	20.32	2,360

Bayou Courtableau at Washington, La.

Location.--Lat 30°37'05", long 92°03'20", in lot 81, T. 5 S., R. 4 E., Louisiana meridian, on State Highway 5 at Washington, a quarter of a mile upstream from Texas and New Orleans Railroad bridge, 1¼ miles upstream from Bayou Carron, 3½ miles downstream from confluence of Bayou Cocodrie and Bayou Boeuf, and 6 miles north of Opelousas. Datum of gage is at mean sea level (Louisiana Geodetic Survey benchmark). Auxiliary gage 3¼ miles upstream.

Drainage area.--715 sq mi. Since April 1952, flow has occasionally included diversion from 76.1 sq mi in the Bayou Rapides basin.

Gage-height record.--Water-stage recorder graph for base gage and for auxiliary gage to May 12. From May 17 to June 30 graph based on twice-daily staff gage readings at auxiliary gage.

Discharge record.--Fall-stage-discharge relation defined by current-meter measurements. Discharge May 13-16 estimated on basis of records for stations on nearby streams.

Maxima.--April-June 1953: Discharge, 9,490 cfs 12 p.m. May 21; gage height, 35.29 ft 6 a.m. May 22.
1946 to March 1953: Discharge, 4,520 cfs Apr. 28, 1949; gage height 27.85 ft Apr. 29, 1949.

Remarks.--Flood runoff not affected by artificial storage. Some flow diverted from Bayou Boeuf into Chatlin Lake Canal through Bayou Lamourie. Flood flow diverted from Bayou Rapides into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides. Considerable flow bypassed station above about a 32-foot stage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,420	3,650	8,120	11	723	5,610	6,760	21	464	9,440	2,670
2	1,240	3,820	8,020	12	718	5,630	6,540	22	438	9,410	1,980
3	1,090	4,000	7,940	13	687	5,700	6,270	23	427	9,380	1,360
4	1,000	4,330	7,890	14	668	5,700	5,980	24	548	9,300	1,070
5	945	4,550	7,770	15	627	5,600	5,800	25	2,590	9,060	981
6	874	4,810	7,720	16	586	5,800	5,670	26	2,500	8,870	935
7	849	5,150	7,620	17	571	6,160	5,480	27	2,290	8,700	878
8	824	5,350	7,490	18	557	7,350	5,140	28	1,930	8,570	948
9	800	5,500	7,240	19	509	9,090	4,200	29	1,720	8,410	1,070
10	767	5,580	6,990	20	479	9,400	3,290	30	3,440	8,320	1,030
								31	-	8,200	-
Monthly mean discharge, in cubic feet per second									1,076	6,788	4,828
Runoff, in acre-feet									64,030	417,400	287,300
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24			April 30			May 16		12	34.08	8,480
12	15.91	417	4	23.31	3,290	12	30.61	5,920		May 29	
4	15.88	428	8	23.76	3,430		May 17		N	33.97	8,400
8	15.86	412	N	24.02	3,520	6	30.68	5,900	12	33.86	8,370
N	15.85	425	4	24.17	3,540	N	30.76	6,030		May 30	
4	16.83	424	8	24.27	3,570	6	30.76	6,350	N	33.75	8,330
8	18.88	634	12	24.34	3,580	12	30.81	6,790	12	33.62	8,270
12	21.25	1,510		May 1			May 18			May 31	
	April 25		N	24.47	3,650	6	31.15	7,180	N	33.50	8,200
3	22.68	2,060	12	24.57	3,730	N	32.92	7,270	12	33.38	8,130
6	23.54	2,530		May 2		6	33.56	7,430		June 1	
9	24.12	2,770	N	24.62	3,830	12	34.15	8,260	N	33.27	8,150
N	24.53	2,870	12	24.61	3,890		May 19		12	33.12	8,070
3	24.85	2,860		May 3		6	34.71	8,930		June 2	
6	25.07	2,790	N	24.57	4,000	N	35.02	9,250	N	33.00	8,000
9	25.22	2,730	12	24.95	4,090	6	35.13	9,340	12	32.85	8,000
12	25.31	2,670		May 4		12	35.17	9,430		June 3	
	April 26		6	25.12	4,220		May 20		N	32.71	7,920
6	25.38	2,540	N	25.48	4,510	N	35.18	9,360	12	32.57	7,910
N	25.36	2,500	6	21.11	4,350	12	35.25	9,470		June 4	
6	25.22	2,420	12	26.33	4,420		May 21		N	32.42	7,900
12	24.99	2,380		May 5		N	35.26	9,400	12	32.30	7,840
	April 27		N	26.75	4,570	12	35.28	9,490		June 5	
6	24.71	2,350	12	27.18	4,640		May 22		N	32.14	7,750
N	24.34	2,300		May 6		6	35.29	9,410	12	31.98	7,730
6	23.92	2,250	N	27.33	4,800	N	35.27	9,400		June 6	
12	23.44	2,160	12	27.36	5,010	6	35.27	9,400	N	31.84	7,720
	April 28			May 7		12	35.26	9,400	12	31.67	7,690
6	22.94	2,120	N	27.39	5,170		May 23			June 7	
N	22.43	1,950	12	27.43	5,250	N	35.21	9,380	N	31.53	7,610
6	21.91	1,800		May 8		12	35.16	9,360	12	31.36	7,580
12	21.44	1,610	N	27.44	5,350		May 24			June 8	
	April 29		12	27.44	5,440	N	35.07	9,320	N	31.21	7,500
2	21.24	1,560		May 9		12	34.96	9,200	12	31.03	7,390
4	21.08	1,510	N	27.45	5,500		May 25			June 9	
6	20.93	1,450	12	27.48	5,560	N	34.85	9,050	N	30.85	7,210
8	20.79	1,380		May 10		12	34.73	8,960	12	30.64	7,150
10	20.62	1,310	N	27.50	5,590		May 26			June 10	
N	20.52	1,310	12	27.53	5,600	N	34.63	8,860	N	30.43	6,970
2	20.90	1,360		May 11		12	34.51	8,800	12	30.16	6,870
4	21.28	1,560	N	27.54	5,610		May 27			June 11	
6	21.60	1,930	12	27.56	5,620	N	34.40	8,680	N	29.94	6,740
8	21.97	2,350		May 12		12	34.30	8,630	12	29.66	6,690
10	22.34	2,690	N	27.57	5,620		May 28			June 12	
12	22.69	2,950	12	27.56	5,670	N	34.19	8,580	N	29.42	6,540
									12	29.16	6,390

Bayou Courtableau at Washington, La.--Continued

Gage height, in feet, and discharge, in cubic feet per second, at indicated time,

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	June 13			June 16			June 19			June 22	
N	28.90	6,280	N	27.05	5,670	N	24.47	4,180	N	19.87	1,970
12	28.64	6,130	12	26.67	5,590	12	23.80	3,670	12	19.41	1,600
	June 14			June 17			June 20			June 23	
N	28.37	5,960	N	26.32	5,480	N	23.03	3,260	N	19.13	1,330
12	28.06	5,880	12	25.94	5,390	12	22.20	2,960	12	18.99	1,170
	June 15			June 18			June 21			June 24	
N	27.75	5,780	N	25.55	5,210	N	21.31	2,680	N	18.89	1,060
12	27.39	5,750	12	25.04	4,750	12	20.49	2,370	12	18.89	974

Chatlin Lake Canal near Lecompte, La.

Location.--Lat 31°07'10", long 92°20'40", in NW¼ sec. 26, T. 2 N., R. 1 E., on State Highway 457, 1.2 miles downstream from Indian Bayou and 3.7 miles northeast of Lecompte. Datum of gage is 42.96 ft above mean sea level (Louisiana Geodetic Survey benchmark). Auxiliary staff gage 1 mile upstream.

Drainage area.--75.9 sq mi. Flow includes diversion from Bayou Boeuf through Bayou Lamourie which is a considerable portion of the low-water flow.

Gage-height record.--Graphs based on twice-daily readings of base and auxiliary gages.

Discharge record.--Fall-stage-discharge relation defined by current-meter measurements.

Maxima.--April-June 1953: Discharge, 2,600 cfs 10 p.m. May 18 (gage height, 19.51 ft). 1942 to March 1953: Discharge, 2,370 cfs Mar. 18, 1945; gage height, 17.21 ft Mar. 31, 1949.

Remarks.--Flood runoff not affected by artificial storage. Entire flow of Bayou Lamourie which formerly entered Bayou Boeuf is diverted by canal into Bayou duLac and thence into canal through Bayou Lamourie. Some natural diversion at extremely high stages through Bayou Wilson 0.2 mile upstream. Diversion above and below station for irrigation.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	95	1,810	304	11	25	538	65	21	26	2,020	19
2	78	1,560	260	12	25	718	55	22	24	1,720	17
3	64	1,240	216	13	27	1,730	45	23	23	1,360	16
4	55	1,450	208	14	32	1,520	40	24	36	1,030	15
5	49	1,460	167	15	38	1,400	35	25	137	796	14
6	46	1,060	140	16	39	1,480	32	26	120	687	14
7	41	605	120	17	37	1,360	29	27	87	615	15
8	37	571	105	18	35	2,400	26	28	92	545	58
9	34	509	90	19	31	2,530	23	29	1,640	488	132
10	28	463	75	20	28	2,310	21	30	2,050	406	63
								31		357	
Monthly mean discharge, in cubic feet per second									169	1,185	80.6
Runoff, in acre-feet									10,070	72,870	4,800
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23										
12	2.18	23	12	17.85	2,160	12	12.14	558	12	16.28	1,700
	April 24			April 30			May 9			May 18	
6	2.18	23	4	17.79	2,130	N	11.93	519	2	17.00	1,880
N	2.17	22	8	17.72	2,100	12	11.75	440	4	17.70	2,090
6	2.50	39	N	17.64	2,070		May 10		6	18.39	2,280
12	3.41	101	4	17.54	2,010	N	11.61	453	8	18.87	2,440
	April 25		8	17.43	1,970	12	11.46	505	10	19.09	2,480
6	4.17	115	12	17.31	1,930		May 11		N	19.22	2,530
N	5.00	164		May 1		N	11.32	526	2	19.33	2,550
6	4.97	150	6	17.09	1,860	12	11.17	594	4	19.41	2,590
12	4.67	136	N	16.91	1,800		May 12		6	19.46	2,580
	April 26		6	16.71	1,760	6	11.09	639	8	19.50	2,590
N	4.08	115	12	16.44	1,700	N	11.02	664	10	19.51	2,600
12	3.56	113		May 2		6	10.95	676	12	19.50	2,590
	April 27		N	15.78	1,560	12	13.55	1,190		May 19	
N	3.20	85	12	14.98	1,420		May 13		6	19.38	2,570
12	2.93	66		May 3		4	15.50	1,730	N	19.22	2,530
	April 28		6	14.55	1,310	8	16.56	1,810	6	19.06	2,490
4	2.85	61	N	14.06	1,190	N	16.90	1,840	12	18.90	2,450
8	2.79	57	6	13.91	1,130	4	16.96	1,800		May 20	
N	2.73	53	12	15.60	1,250	8	16.91	1,750	N	18.58	2,320
4	2.67	49		May 4		12	16.80	1,700	12	18.26	2,160
8	2.85	61	6	16.56	1,360		May 14			May 21	
12	7.00	470	N	16.86	1,490	6	16.50	1,600	N	17.96	2,020
	April 29		6	17.06	1,560	N	16.14	1,510	12	17.66	1,900
2	8.13	646	12	16.99	1,550	6	15.99	1,430		May 22	
4	9.45	890		May 5		12	15.96	1,380	N	17.30	1,710
6	10.70	1,130	N	16.59	1,470		May 15		12	16.84	1,550
8	12.00	1,400	12	15.91	1,330	N	16.28	1,370		May 23	
10	13.32	1,700		May 6		12	16.26	1,470	N	16.10	1,350
N	14.59	1,920	N	14.86	1,090		May 16		12	15.37	1,190
2	15.87	2,040	12	13.78	750	N	15.87	1,520		May 24	
4	17.00	2,110		May 7		12	15.26	1,410	N	14.80	1,030
6	17.72	2,180	N	12.98	555		May 17		12	14.36	874
										May 25	

Bayou des Glaises diversion channel at Moreauville, La.

Location.--Lat 31°01'59", long 91°58'57", in NE¼ sec. 29, T. 1 N., R. 5 E., on State Highway 30 at Moreauville, 150 ft downstream from point of diversion from Bayou des Glaises. Datum of gage is 28.30 ft above mean sea level, datum of 1929, supplementary adjustment of 1941 (levels by Louisiana Department of Public Works).
Drainage area.--270 sq mi. Flow includes diversion from Bayou Boeuf into Chatlin Lake canal and is occasionally affected by diversion into and out of Red River and Old River overflow area.
Gage-height record.--Water-stage recorder graph.
Discharge record.--State-discharge relation defined by current-meter measurements except May 5, 15, 16, 19-27; discharge computed from fall-stage discharge relation using gage on West Protection Levee borrow pit channel at Plaucheville as auxiliary gage.
Maxima.--April-June 1953: Discharge, 6,340 cfs 8 p.m. May 18 (gage height, 17.84 ft). 1943 to March 1953: Discharge, 3,680 cfs Apr. 23, 1949 (gage height, 13.3 ft, from graph based on gage readings).
Remarks.--Flood runoff not affected by artificial storage. Above 16 ft some flow bypasses station and is not included in the record. From May 17-27 an estimated 5,000 ac-ft was diverted through Bordelonville flood gate to the Atchafalaya River. Diversion channel carries natural flow of Bayou des Glaises except when operation of flood gates, 12 miles downstream from point of diversion, regulates flow into or out of bayou depending on stage in Red River and Old River overflow area. Channel discharges into West Protection Levee borrow pit channel, 6 miles downstream.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	669	1,270	3,640	11	103	2,470	1,950	21	53	3,920	656
2	596	1,300	3,420	12	91	2,390	1,800	22	50	4,240	557
3	519	1,600	3,210	13	84	3,490	1,650	23	49	4,630	468
4	453	3,740	3,030	14	80	3,610	1,490	24	78	4,830	402
5	386	3,400	2,850	15	77	3,490	1,350	25	411	4,910	333
6	306	3,090	2,680	16	71	3,240	1,220	26	503	4,860	244
7	230	2,900	2,540	17	66	3,480	1,110	27	451	4,680	165
8	176	2,720	2,390	18	61	6,030	1,000	28	395	4,490	257
9	140	2,610	2,260	19	58	5,640	874	29	647	4,270	398
10	118	2,540	2,100	20	56	4,220	762	30	1,320	4,080	386
								31		3,880	
Monthly mean discharge, in cubic feet per second									277	3,614	1,506
Runoff, in acre-feet									16,460	222,200	89,640
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23										
12	3.18	48	12	8.05	1,350	12	10.53	2,430	4	17.75	6,290
	April 24			May 3			May 12		8	17.84	6,340
6	3.18	48	4	8.09	1,370	N	10.46	2,400	12	17.69	6,250
N	3.18	48	8	8.14	1,390	12	10.34	2,340		May 19	
6	3.79	109	N	8.19	1,410		May 13		6	17.69	6,250
12	4.18	165	4	8.30	1,450	4	11.41	2,840	N	17.55	5,660
	April 25		8	9.54	1,980	8	12.80	3,540	6	17.41	5,150
6	5.08	363	12	11.11	2,700	N	13.30	3,790	12	17.26	4,680
N	5.38	453		May 4		4	13.47	3,880		May 20	
6	5.50	490	4	11.77	3,020	8	13.42	3,850	N	17.02	4,170
12	5.57	512	8	12.31	3,300	12	13.24	3,760	12	16.81	3,880
	April 26		N	13.24	3,760		May 14			May 21	
N	5.56	509	4	14.42	4,370	4	13.00	3,640			
12	5.47	481	8	14.52	4,430	8	12.75	3,520	N	16.66	3,900
	April 27		12	14.43	4,380	N	12.55	3,420	12	16.52	4,000
N	5.37	450		May 5		4	12.34	3,310		May 22	
12	5.28	422	8	14.08	3,720	8	13.35	3,820	N	16.46	4,270
	April 28		4	13.46	2,930	12	13.90	4,090	12	16.36	4,440
N	5.20	398	12	12.91	2,740		May 15			May 23	
12	5.08	363		May 6		6	13.84	4,000	N	16.30	4,700
	April 29		N	12.33	3,300	N	13.60	3,360	12	16.17	4,690
4	5.04	352	12	11.78	3,030	6	13.30	3,060		May 24	
8	5.00	341		May 7		12	13.05	2,990	N	16.08	4,860
N	5.30	428	N	11.51	2,900		May 16		12	15.94	4,900
4	6.53	822	12	11.29	2,780	8	12.86	3,100		May 25	
8	7.42	1,130		May 8		4	12.77	3,400	N	15.81	4,910
12	7.81	1,260	N	11.16	2,720	12	12.55	3,420	12	15.67	4,920
	April 30		12	11.04	2,660		May 17			May 26	
N	8.10	1,370		May 9		6	12.36	3,320	N	15.48	4,840
12	7.87	1,280	N	10.94	2,610	N	12.17	3,220	12	15.30	4,830
	May 1		12	10.85	2,570	6	12.02	3,150		May 27	
N	7.81	1,260		May 10		12	15.58	5,010	N	15.08	4,650
12	7.83	1,270	N	10.77	2,540		May 18		12	14.88	4,590
	May 2		12	10.69	2,500	4	16.62	5,610		May 28	
N	7.92	1,300		May 11		8	17.43	6,100	N	14.66	4,500
			N	10.62	2,470	N	17.64	6,220	12	14.44	4,380

West Protection Levee borrow pit channel near Plaucheville, La.

Location.--Lat 30°57'10", long 91°54'55", in SW¼SE¼ sec. 24, T. 1 S., R. 5 E., Louisiana meridian, on State Highway 300, 50 ft downstream from Bayou Choupique and 4.1 miles east of Plaucheville. Datum of gage is 18.54 ft above mean Gulf level (Corps of Engineers benchmark). Gage for Bayou des Glaises diversion channel at Moreauville, 6 miles upstream, used as auxiliary gage.
Drainage area.--321 sq mi. Flow includes diversion from Bayou Boeuf into Chatlin Lake Canal and is occasionally affected by diversion into or out of Red River and Old River overflow area.
Gage-height area.--Water-stage record graph for base and auxiliary gage.
Discharge record.--Stage-discharge relation below 8 ft and fall-stage-discharge relation above 8 ft defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 6,130 cfs 7 p.m. May 18; gage height, 22.90 ft 12 noon May 19.
1944 to March 1953: Discharge, 4,090 cfs Apr. 22, 1949 (gage height, 18.40 ft, from graph based on gage readings).
Remarks.--Flood runoff not affected by artificial storage. Flow is principally from Bayou des Glaises diversion channel (see preceding page). Some flow bypassed station in May and is not included in the record.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	770	1,580	3,960	11	109	2,420	1,950	21	51	5,380	758
2	685	1,440	3,720	12	97	2,340	1,820	22	50	5,320	637
3	580	1,570	3,450	13	86	3,710	1,700	23	47	5,280	537
4	505	3,910	3,180	14	78	3,900	1,560	24	148	5,210	464
5	433	4,260	2,940	15	77	4,200	1,410	25	1,080	5,110	397
6	353	3,690	2,670	16	73	3,890	1,300	26	901	4,980	307
7	275	3,260	2,490	17	66	3,830	1,190	27	644	4,840	214
8	214	2,950	2,340	18	62	5,890	1,080	28	504	4,660	491
9	166	2,700	2,200	19	55	5,860	970	29	864	4,510	480
10	133	2,520	2,090	20	54	5,550	871	30	1,800	4,370	460
								31	-	4,200	-
Monthly mean discharge, in cubic feet per second									365	3,978	1,588
Runoff, in acre-feet									21,740	244,600	94,480
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		N	5.51	431	12	18.54	3,920	N	17.32	3,790
12	2.78	47	2	6.57	669		May 6		6	16.80	3,660
4	2.77	47	4	8.85	1,140	N	17.51	3,700	12	18.74	4,380
8	2.76	46	6	10.62	1,470	12	16.33	3,440		May 15	
N	2.75	45	8	11.53	1,630		May 7		6	19.07	4,330
4	3.18	83	10	12.03	1,720	N	15.51	3,260	N	19.07	4,200
8	4.65	280	12	12.31	1,770	12	14.91	3,090	6	18.85	4,080
12	6.77	724		April 30			May 8		12	18.58	3,980
	April 25		4	12.52	1,840	N	14.41	2,950		May 16	
2	8.40	886	8	12.49	1,860	12	14.00	2,810	8	18.30	3,900
4	9.30	1,030	N	12.31	1,830		May 9		4	18.03	3,390
6	9.73	1,110	4	12.10	1,800	N	13.67	2,690	12	17.52	3,800
8	9.91	1,140	8	11.80	1,760	12	13.39	2,590		May 17	
10	9.94	1,150	12	11.48	1,710		May 10		6	17.13	3,710
N	9.90	1,160		May 1		N	13.17	2,520	N	16.72	3,620
2	9.81	1,150	N	10.62	1,580	12	12.98	2,470	6	16.38	3,530
4	9.66	1,140	12	9.93	1,470		May 11		12	20.29	5,100
6	9.47	1,120		May 2		N	12.83	2,410		May 18	
8	9.27	1,100	N	9.63	1,430	12	12.70	2,380	6	21.48	5,840
10	9.08	1,080	12	9.50	1,420		May 12		N	22.17	6,070
12	8.89	1,060		May 3		N	12.58	2,340	6	22.55	6,080
	April 26		4	9.49	1,430	12	12.47	2,290	7	22.60	6,130
8	8.18	949	8	9.49	1,430		May 13		12	22.76	6,050
4	7.54	849	N	9.50	1,440	2	12.60	2,380		May 19	
12	6.99	752	4	9.55	1,460	4	13.41	2,730	6	22.88	5,960
	April 27		8	10.20	1,740	6	14.86	3,350	N	22.90	5,850
N	6.45	637	12	12.53	2,470	8	16.34	3,820	6	22.89	5,750
12	6.09	550		May 4		10	17.21	4,030	12	22.86	5,680
	April 28		4	14.22	3,060	N	17.71	4,130		May 20	
N	5.87	503	8	15.72	3,550	2	17.98	4,170	N	22.73	5,540
12	5.66	460	N	17.53	4,090	4	18.14	4,190	12	22.57	5,450
	April 29		4	19.10	4,610	6	18.21	4,200		May 21	
2	5.62	452	8	19.46	4,620	8	18.23	4,170	N	22.40	5,370
4	5.59	446	12	19.56	4,570	10	18.20	4,150	12	22.22	5,330
6	5.55	438		May 5		12	18.13	4,100		May 22	
8	5.50	429	8	19.48	4,400		May 14		N	22.07	5,320
10	5.48	425	4	19.10	4,130	6	17.79	3,930	12	21.90	5,290

Big Darbonne Bayou at culvert near Krotz Springs, La.

Location.--Lat 30°33'00", long 91°51'50", in NW¼NE¼ sec. 9, T. 6 S., R. 6 E., Louisiana meridian, 250 ft east from West Protection Levee borrow pit channel, 0.2 mile north of bridge on U. S. Highway 190, and 6.3 miles west of Krotz Springs. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers benchmark). Auxiliary water-stage recorder 280 ft east.

Gage-height record.--Water-stage recorder graph at auxiliary gage and at base gage except May 15-17, May 21 to June 3, when graph was drawn on basis of partial record, highwater mark, and gage relation with recorder 0.2 mile downstream on Bayou Courtableau.

Discharge record.--Head-discharge relation defined by current-meter measurements. Flow in east-west direction Apr. 20-24.

Maxima.--April-June 1953: Daily discharge, 1,210 cfs May 27.

Remarks.--Station established February 1953. Flow completely regulated by operation of gate in accordance with prescribed schedule of Corps of Engineers. Flow represents discharge lost to the Courtableau-Teche basin for flood control except for flow in the east-west direction which is added for irrigation.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	255	524	1,050	11	0	245	516	21	e176	810	540
2	282	492	990	12	0	245	524	22	e160	950	492
3	322	480	921	13	0	329	536	23	e159	1,070	450
4	350	528	829	14	0	400	556	24	e86 198	1,150	172
5	374	606	713	15	0	460	560	25	760	1,200	0
6	390	574	588	16	0	552	567	26	702	1,200	0
7	374	492	500	17	0	540	574	27	599	1,210	0
8	343	395	470	18	0	487	578	28	450	1,200	0
9	166	322	480	19	0	663	582	29	350	1,170	0
10	0	264	492	20	e71	752	567	30	500	1,130	0
								31	-	1,090	-
Monthly mean discharge, in cubic feet per second									e -	-	-
Runoff, in acre-feet									1,290 12,720	42,700	28,260

eFlow from east to west; all other flow from west to east.

Bayou Courtableau at weirs near Krotz Springs, La.

Location.--Lat 30°32'20", long 91°52'05", in NW¼NE¼ sec. 39, T. 6 S., R. 6 E., Louisiana meridian, 0.7 mile downstream from bridge on U. S. Highway 190, 0.8 mile downstream from Big Darbonne Bayou, and 7 miles west of Krotz Springs. Datum of gage is at mean sea level, datum of 1929 (Corps of Engineers benchmark).
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 24,800 cfs 12 noon May 25 (gage height, 24.11 ft).
Remarks.--Flood runoff not affected by artificial storage. Station established February 1953. Below 18.0 ft, all flow from the Courtableau-Teche system is gaged at Bayou Teche at Arnaudville (see p. 232); above 18.0 ft, Bayou Courtableau is a distributary of this system.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,650	5,700	19,800	11	0	8,100	9,180	21	0	21,100	1,960
2	1,150	5,360	19,000	12	0	7,700	8,500	22	0	22,400	1,150
3	809	5,530	18,300	13	0	10,400	7,700	23	0	23,600	503
4	503	7,980	17,600	14	0	12,000	7,160	24	64	24,500	289
5	244	10,900	16,500	15	0	13,500	6,380	25	4,960	24,800	361
6	102	11,400	15,100	16	0	15,100	5,660	26	6,940	24,400	255
7	73	10,900	13,700	17	0	15,500	4,920	27	5,830	23,800	138
8	0	10,000	12,400	18	0	17,000	4,230	28	4,000	23,100	120
9	0	9,180	11,200	19	0	19,200	3,580	29	3,030	22,100	599
10	0	8,530	10,200	20	0	20,200	2,860	30	4,930	21,300	716
								31	-	20,400	-
Monthly mean discharge, in cubic feet per second									1,141	15,340	7,335
Runoff, in acre-feet									67,870	943,500	436,500
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 25		4	19.270	4,990		May 12		6	20.455	15,600
10	18.00	0	6	19.265	4,920	N	19.595	7,700	8	20.555	15,900
12	18.610	1,610	8	19.260	4,920	12	19.580	7,520	10	20.880	16,800
6	19.125	3,980	10	19.260	4,920		May 13		N	21.185	17,500
N	19.320	5,350	N	19.325	5,350	2	19.590	7,610	2	21.345	17,700
6	19.435	6,300	2	19.385	5,820	4	19.750	9,300	4	21.470	17,900
12	19.505	6,800	4	19.405	5,970	6	19.795	9,900	6	21.610	18,100
	April 26		6	19.415	6,140	8	19.825	10,200	8	21.775	18,400
N	19.535	7,160	8	19.440	6,300	10	19.840	10,500	10	21.830	18,400
12	19.485	6,630	10	19.445	6,300	N	19.855	10,800	12	21.915	18,600
	April 27		12	19.450	6,380	2	19.875	11,100		May 19	
N	19.390	5,890		May 4		4	19.885	11,100	6	22.150	18,900
12	19.265	4,920	4	19.460	6,470	6	19.895	11,400	N	22.345	19,300
	April 28		8	19.535	7,160	8	19.910	11,500	6	22.505	19,600
N	19.115	3,980	N	19.615	7,900	10	19.920	11,600	12	22.615	19,800
12	18.960	3,100	4	19.705	8,700	12	19.925	11,600		May 20	
	April 29		8	19.770	9,540		May 14		N	22.790	20,200
2	18.940	3,010	12	19.805	9,900	6	19.930	11,700	12	22.960	20,600
4	18.920	2,910		May 5		N	19.945	11,900		May 21	
6	18.890	2,770	6	19.865	10,800	6	19.970	12,300	N	23.145	21,100
8	18.860	2,630	N	19.870	10,900	12	20.015	12,800	12	23.335	21,700
10	18.820	2,450	6	19.890	11,200		May 15			May 22	
N	18.865	2,630	12	19.905	11,400	N	20.100	13,600	N	23.535	22,400
2	18.960	3,100		May 6			20.145	13,900	12	23.715	23,100
4	18.970	3,150	N	19.910	11,500		May 16			May 23	
6	18.990	3,250	12	19.895	11,400	3	20.170	14,100	N	23.855	23,600
8	19.015	3,410		May 7		6	20.315	15,000	12	23.975	24,100
10	19.050	3,580	N	19.870	10,900	9	20.360	15,200		May 24	
12	19.090	3,800	12	19.840	10,500	N	20.380	15,300	6	24.030	24,400
	April 30			May 8		3	20.410	15,400	N	24.055	24,500
6	19.200	4,490	N	19.810	10,000	6	20.425	15,500	6	24.085	24,300
N	19.280	5,060	12	19.770	9,540	9	20.435	15,500	12	24.105	24,700
6	19.330	5,430		May 9		12	20.440	15,500		May 25	
12	19.360	5,660	N	19.745	9,180		May 17		N	24.11	24,800
	May 1		12	19.710	8,820	6	20.455	15,600	12	24.10	24,700
N	19.370	5,740		May 10		N	20.445	15,500		May 26	
12	19.355	5,660	N	19.680	8,500	6	20.420	15,500	N	24.055	24,500
	May 2		12	19.655	8,300	12	20.455	15,600	12	23.975	24,100
N	19.320	5,350		May 11			May 18			May 27	
12	19.280	5,060	N	19.635	8,100	2	20.450	15,600	N	23.905	23,800
	May 3		12	19.615	7,900	4	20.450	15,600	12	23.825	23,500
2	19.275	5,060									

Bayou Teche at Arnaudville, La.

Location.--Lat 30°23'50", long 91°55'50", in lot 63, T. 7 S., R. 5 E., Louisiana meridian, on State Highway 356 at Arnaudville, 300 ft upstream from Bayou Fusilier. Datum of gage is at mean sea level (Louisiana Geodetic Survey benchmark). Auxiliary water-stage recorder 3.7 mi upstream.

Drainage area.--1,531 sq mi. Flow affected by diversion out of the basin via the Courtableau weirs and to and from the basin through Bayou des Glaises flood gates and Big Darbonne Bayou culvert. Flow occasionally includes diversion from 76.1 sq mi in the Bayou Rapides basin.

Gage-height record.--Water-stage recorder graph at base and auxiliary gages.

Discharge record.--Fall-stage-discharge relation defined by current-meter measurements.

Maxima.--April-June 1953: Discharge, 4,630 cfs 12 noon May 24; gage height, 24.27 ft 6 p.m. May 23.

1949 to March 1953: Discharge, 2,440 cfs Mar. 28, 1951; gage height, 21.37 ft, Jan. 7, 1950.

Remarks.--Flood runoff not affected by artificial storage. Bayou Teche heads in Bayou Courtableau at Port Barre. At low flow, all of the discharge of the Courtableau-West Protection Levee borrow pit channel basin goes through Teche but at higher stages flow passes over the Courtableau weirs and continues down the borrow pit channel. There is controlled diversion to or from Red River and Old River overflow area through Bayou des Glaises flood gates and to or from West Atchafalaya floodway through Big Darbonne Bayou culvert. Flood flow is diverted from Bayou Rapides into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,210	1,540	3,250	11	1,000	1,730	2,090	21	728	4,280	1,270
2	1,200	1,510	3,060	12	991	1,710	2,000	22	715	4,390	1,210
3	1,160	1,630	2,950	13	946	2,190	1,910	23	709	4,530	1,130
4	1,120	1,940	2,790	14	928	2,060	1,870	24	984	4,610	1,100
5	1,130	1,900	2,650	15	902	2,250	1,770	25	1,900	4,500	1,140
6	1,090	1,880	2,530	16	879	2,990	1,700	26	1,590	4,340	1,130
7	1,080	1,860	2,460	17	858	2,720	1,590	27	1,500	4,160	1,120
8	1,050	1,800	2,340	18	821	3,470	1,500	28	1,400	3,930	1,140
9	1,030	1,770	2,230	19	785	4,200	1,390	29	1,410	3,700	1,160
10	1,000	1,760	2,170	20	739	4,240	1,340	30	1,480	3,550	1,190
								31	-	3,400	-
Monthly mean discharge, in cubic feet per second									1,078	2,921	1,839
Runoff, in acre-feet									64,140	179,600	109,400
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		6	17.19	1,410	12	16.69	1,760	6	20.89	2,610
12	11.86	705	12	17.18	1,450		May 10		12	20.94	2,570
	April 24			April 30		N	16.61	1,780		May 18	
2	11.85	710	6	17.11	1,450	12	16.56	1,730	2	20.92	2,600
4	11.85	710	N	17.02	1,470		May 11		4	20.91	2,560
6	11.85	710	6	16.90	1,500	N	16.50	1,740	6	20.87	2,610
8	11.84	709	12	16.79	1,530	12	16.42	1,700	8	20.87	2,660
10	11.83	707		May 1			May 12		10	21.55	3,240
N	11.80	735	N	16.59	1,540	N	16.35	1,720	N	22.50	3,770
2	11.89	767	12	16.41	1,530	12	16.31	1,700	2	23.35	4,090
4	12.79	998		May 2			May 13		4	23.74	4,140
6	14.15	1,230	N	16.28	1,500	2	16.31	1,720	6	23.92	4,190
8	15.65	1,590	12	16.14	1,500	4	16.37	1,880	8	23.99	4,210
10	16.93	1,670		May 3		6	17.35	2,210	10	24.00	4,220
12	17.45	1,840	6	16.09	1,490	8	17.96	2,410	12	24.00	4,220
	April 25		N	16.23	1,600	10	18.31	2,450		May 19	
4	18.17	2,050	6	16.88	1,820	N	18.48	2,420	N	24.11	4,180
8	18.39	2,020	12	16.94	1,730	2	18.57	2,350	12	24.21	4,230
N	18.55	1,960		May 4		4	18.59	2,300		May 20	
4	18.67	1,850	4	16.87	1,710	6	18.57	2,250	N	24.25	4,240
8	18.76	1,780	8	17.03	1,820	8	18.54	2,200	12	24.19	4,260
12	18.85	1,690	N	17.52	2,060	10	18.50	2,170		May 21	
	April 26		4	18.11	2,120	12	18.47	2,120	N	24.15	4,280
6	18.93	1,640	8	18.22	2,070		May 14		12	24.16	4,280
N	18.96	1,600	12	18.19	2,000	6	18.36	2,070		May 22	
6	18.93	1,520		May 5		N	18.30	1,990	N	24.19	4,400
12	18.85	1,530	6	18.08	1,910	6	18.24	2,010	12	24.21	4,490
	April 27		N	17.96	1,880	12	18.95	2,210		May 23	
6	18.74	1,520	6	17.84	1,860		May 15		6	24.23	4,500
N	18.59	1,520	12	17.72	1,890	6	19.08	2,210	N	24.25	4,540
6	18.38	1,460		May 6		N	19.42	2,290	6	24.27	4,550
12	18.14	1,450	N	17.56	1,880	6	19.41	2,280	12	24.26	4,590
	April 28		12	17.40	1,870	12	19.41	2,260		May 24	
6	17.90	1,390		May 7			May 16		N	24.26	4,630
N	17.60	1,440	N	17.27	1,860	6	19.93	3,050	12	24.20	4,590
6	17.31	1,380	12	17.13	1,830	N	20.95	3,220		May 25	
12	17.02	1,340		May 8		6	21.02	3,080	N	24.19	4,480
	April 29		N	17.02	1,800	12	20.99	2,940	12	24.06	4,430
6	16.72	1,350	12	16.89	1,790		May 17			May 26	
N	16.42	1,470		May 9		6	20.95	2,820	N	23.93	4,330
			N	16.79	1,770	N	20.94	2,690	12	23.76	4,260

Bayou Carencro near Sunset, La.

Location.--Lat 30°22'35", long 92°02'35", in lot 71, T. 8 S., R. 4 E., Louisiana meridian, on State Highway 5, 1½ miles downstream from Texas and New Orleans Railroad bridge, 2¾ miles southeast of Sunset, and 4¾ miles upstream from mouth. Datum of gage is 12.77 ft above mean sea level (Louisiana Geodetic Survey benchmark; levels by Louisiana Department of Public Works). Auxiliary wire-weight gage on Vermilion River 600 ft downstream from mouth of Bayou Carencro.
Drainage area.--37.1 sq mi.
Gage-height record.--Water-stage recorder graph at base gage and graph based on twice-daily gage readings at auxiliary gage.
Discharge record.--Submergence rating defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 2,660 cfs 8 p.m. May 18; gage height, 14.86 ft 10 p.m. May 18.
1943 to March 1953: Discharge, 4,220 cfs Mar. 13, 1947 (gage height, 17.10 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	2.2	14.	8.8	11	0.6	0.6	1.3	21	0.8	119	0
2	1.6	4.8	9.0	12	.5	.4	.5	22	.4	31	0
3	1.3	6.8	7.5	13	.3	1,230	.4	23	.3	25	0
4	1.0	570	6.8	14	.3	881	.3	24	501	22	0
5	.8	284	4.2	15	.2	928	.2	25	2,140	18	0
6	.8	21	2.8	16	7.7	1,150	.1	26	918	20	0
7	28	7.3	.6	17	2.4	440	0	27	198	20	0
8	5.8	3.3	.2	18	3.6	1,220	0	28	23	22	0
9	2.0	1.7	14	19	14	1,970	0	29	107	17	0
10	1.0	1.1	18	20	2.1	802	0	30	149	14	0
								31	-	11	-
Monthly mean discharge, in cubic feet per second									137	317	2.49
Runoff, in acre-feet									8,160	19,510	148
Runoff, in inches									4.12	9.86	0.07

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		N	4.01	123	6	0.83	5.7	8	11.60	1,350
12	0.23	0.3	4	3.10	74	12	.75	4.5	N	11.98	1,500
	April 24		8	2.43	47		May 8		4	11.70	1,370
2	.23	.3	12	1.93	30	N	.65	3.2	8	11.26	1,170
4	.23	.3		May 1		12	.56	2.2	12	10.63	940
6	.23	.3	6	1.44	17		May 9			May 17	
8	.23	.3	N	1.19	12	N	.51	1.7	4	9.55	662
10	.23	.3	6	1.02	8.9	12	.44	1.3	8	8.54	484
N	.23	.3	12	.91	7.0		May 10		N	7.86	388
2	.33	.7		May 2		N	.41	1.1	4	7.23	310
4	4.78	174	N	.75	4.5	12	.34	.7	8	6.61	237
6	10.38	946	12	.66	3.3		May 11		12	6.01	166
8	12.28	1,620		May 3		N	.32	.6		May 18	
10	13.21	2,100	6	.63	2.9	12	.28	.5	2	5.76	137
12	13.66	2,330	N	.63	2.9		May 12		4	5.57	116
	April 25		6	.80	5.2	N	.26	.4	6	5.40	99
6	13.98	2,510	12	1.89	29	12	.28	.5	8	5.21	80
N	13.56	2,260		May 4			May 13		10	6.13	203
6	12.88	1,880	2	1.78	25	2	.30	.6	N	8.73	551
12	12.18	1,530	4	1.66	22	4	.73	4.2	2	12.48	1,610
	April 26		6	1.81	26	6	10.53	989	4	13.98	2,320
6	11.47	1,250	8	6.08	288	8	11.88	1,470	6	14.61	2,600
N	10.55	940	10	8.33	543	10	12.38	1,680	8	14.83	2,660
6	8.91	520	N	9.51	737	N	12.51	1,740	10	14.86	2,650
12	7.61	394	2	10.42	958	2	12.50	1,740	12	14.84	2,600
	April 27		4	10.70	1,040	4	12.43	1,700		May 19	
6	6.65	239	6	10.76	1,060	6	12.31	1,640	4	14.59	2,420
N	5.57	206	8	10.50	980	8	12.15	1,580	8	14.21	2,210
6	4.38	117	10	9.85	813	10	11.97	1,510	N	13.77	1,960
12	3.32	63	12	9.16	671	12	11.76	1,420	4	13.33	1,730
	April 28			May 5			May 14		8	12.90	1,520
4	2.70	39	4	7.85	478	3	11.38	1,270	12	12.50	1,320
8	2.21	24	8	6.71	350	6	10.88	1,090		May 20	
N	1.84	18	N	5.63	248	9	10.19	875	6	11.92	1,060
4	1.52	13	4	4.61	162	N	9.17	652	N	11.35	840
8	1.28	11	8	3.62	100	3	8.35	536	6	10.33	505
12	1.10	8.7	12	2.80	61	6	7.66	455	12	9.44	286
	April 29			May 6		9	10.22	903		May 21	
4	.95	7.2	4	2.22	12	12	10.94	1,120	6	8.82	170
8	.87	6.3	8	1.84	27		May 15		N	8.21	88
N	.81	5.4	N	1.59	20	4	11.24	1,220	6	7.80	55
4	4.03	124	4	1.40	16	8	11.00	1,140	12	7.55	42
8	6.46	325	8	1.27	13	N	10.55	995		May 22	
12	6.61	340	12	1.16	11	4	9.76	777	N	7.20	26
	April 30			May 7		8	8.96	611	12	6.94	31
4	5.92	274	6	1.01	8.7	12	8.49	530		May 23	
8	4.97	190	N	.92	7.1		May 16		N	6.70	23
						4	9.68	748	12	6.53	22

Bayou Bourbeau at Shuteston, La.

Location.--Lat 30°25'40", long 92°05'30", in lot 174, T. 7 S., R. 4 E., Louisiana meridian, on State Highway 5D, three-quarters of a mile east of Shuteston, $1\frac{3}{4}$ miles northwest of Sunset, and 2 miles upstream from Bayou Sylvain and from Texas and New Orleans Railroad bridge. Datum of gage is 27.14 ft above mean sea level (Louisiana Geodetic Survey benchmark; levels by Louisiana Department of Public Works).
Drainage area.--19.0 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 1,310 cfs 4 p.m. May 18 (gage height, 10.41 ft).
1942 to March 1953: Discharge, 2,840 cfs Jan. 13, 1947 (gage height, 10.8 ft, from graph based on gage readings), from rating curve extended above 1,400 cfs.
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	2.3	41	0.2	11	0.3	1.0	0	21	0.7	224	0
2	1.7	7.9	.1	12	.3	.3	0	22	.4	33	0
3	1.4	29	.1	13	.3	405	.2	23	.3	6.4	0
4	1.2	206	.1	14	.2	334	.1	24	208	2.9	0
5	.9	174	.1	15	.3	499	.1	25	810	2.0	0
6	.6	34	0	16	.2	746	0	26	488	1.4	0
7	.7	7.0	0	17	.2	640	0	27	105	1.2	0
8	.6	3.6	0	18	.2	832	0	28	16	.9	0
9	.4	2.2	0	19	.4	935	0	29	77	.6	0
10	.3	1.6	0	20	1.1	665	0	30	228	.4	0
								31	-	.2	-
Monthly mean discharge, in cubic feet per second									64.9	188	0.033
Runoff, in acre-feet									3,860	11,580	2.0
Runoff, in inches									3.81	11.4	0.002

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		8	6.70	175	12	2.57	13	8	9.32	899
12	1.52	0.2	10	7.24	297		May 7		N	9.17	850
2	1.52	.2	12	7.48	361	6	2.27	8.3	4	9.07	819
4	1.52	.2		April 30		N	2.08	6.1	8	8.97	788
6	1.52	.2	4	7.48	361	6	1.98	5.0	12	8.89	763
8	1.52	.2	8	7.24	297	12	1.94	4.6		May 17	
10	1.52	.2	N	6.91	217		May 8		4	8.78	730
N	1.52	.2	4	6.60	158	N	1.85	3.6	8	8.66	694
2	2.25	8.1	8	6.28	113	12	1.77	2.7	N	8.50	646
4	2.25	1,420	12	5.89	83		May 9		4	8.32	594
6	7.50	366		May 1		N	1.72	2.2	8	8.16	548
8	8.62	682	4	5.36	65	12	1.69	1.8	12	7.95	489
10	9.14	841	8	4.64	49		May 10			May 18	
12	9.35	908	N	3.91	36	N	1.67	1.6	2	7.82	453
	April 25		4	3.34	26	12	1.63	1.2	4	7.66	409
2	9.39	922	8	2.98	19		May 11		6	7.51	369
4	9.33	902	12	2.70	15	N	1.61	1.0	8	7.35	326
8	9.17	850		May 2		12	1.61	1.0	10	8.28	582
N	9.04	809	6	2.38	9.8		May 12		N	9.26	879
4	8.90	766	N	2.14	6.8	N	1.58	.1	2	10.13	1,190
8	8.78	730	6	2.00	5.2	12	1.58	.1	4	10.41	1,310
12	8.62	682	12	1.94	4.6		May 13		6	10.34	1,280
	April 26			May 3		2	1.66	1.5	8	10.25	1,240
6	8.35	602	4	1.91	4.3	4	6.15	100	10	10.05	1,160
N	8.04	514	8	1.88	3.9	6	6.98	233	12	9.84	1,080
6	7.54	377	N	3.40	26	8	7.58	388		May 19	
12	6.99	236	4	4.63	49	10	8.01	506	4	9.60	992
	April 27		8	4.90	54	N	8.19	556	8	9.52	965
6	6.50	142	12	5.48	68	2	8.25	574	N	9.45	942
N	5.94	85		May 4		4	8.26	576	4	9.33	902
6	5.08	58	4	5.81	79	6	8.24	571	8	9.20	860
12	3.87	35	8	6.32	118	8	8.19	556	12	9.07	819
	April 28		N	6.89	213	10	8.13	539		May 20	
4	3.30	25	4	7.21	290	12	8.04	514	6	8.84	748
8	2.91	18	8	7.40	339		May 14		N	8.59	673
N	2.63	14	12	7.36	329	4	7.75	434	6	8.30	588
4	2.39	10		May 5		8	7.36	329	12	7.94	486
8	2.20	7.4	4	7.15	274	N	6.97	231		May 21	
12	2.06	5.9	8	6.88	211	4	6.62	161	6	7.32	318
	April 29		N	6.60	158	8	7.41	342	N	6.75	184
2	2.01	5.4	4	6.31	116	12	8.00	503	6	6.29	114
4	1.98	5.1	8	5.97	86		May 15		12	5.54	70
6	1.96	4.8	12	5.50	69	4	8.19	556		May 22	
8	1.94	4.6		May 6		8	8.17	551	6	4.44	45
10	1.91	4.3	4	4.86	54	N	8.07	523	N	3.51	28
N	2.65	14	8	4.17	40	4	7.92	481	6	2.92	18
2	5.43	67	N	3.61	30	8	7.76	436	12	2.52	12
4	5.72	76	4	3.17	23	12	7.58	388			
6	6.07	93	8	2.83	17		May 16				
						4	8.14	542			

Bayou des Cannes near Eunice, La.

Location.--Lat 30°29'00", long 92°29'25", in SW¼SE¼ sec. 32, T. 6 S., R. 1 W., Louisiana meridian, on U. S. Highway 190, 3 miles downstream from New Orleans, Texas & Mexico Railway bridge and 4 miles west of Eunice. Datum of gage is 14.84 ft above mean sea level, datum of 1929 (Louisiana Geodetic Survey benchmark; levels by Corps of Engineers). Auxiliary water-stage recorder 1.8 miles downstream.
Drainage area.--131 sq mi.
Gage-height record.--Water-stage recorder graph at base and auxiliary gages.
Discharge record.--Fall-stage-discharge relation defined by current-meter measurements between 5 and 18 ft; stage-discharge relation defined by current-meter measurements below 5 and above 18 ft. Shifting-control method used Apr. 1-24.
Maxima.--April-June 1953: Discharge, 11,900 cfs 12 noon May 20 (gage height, 22.36 ft).
1938 to March 1953: Discharge, 10,000 cfs July 7, 1946 (gage height, 21.15 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	68	881	30	11	14	51	3.2	21	11	10,100	4.6
2	39	915	26	12	13	24	3.3	22	11	6,920	5.3
3	29	951	19	13	12	705	19	23	12	3,140	3.2
4	22	1,200	14	14	12	1,110	122	24	298	1,490	2.9
5	18	1,390	9.8	15	11	2,280	52	25	1,220	966	3.7
6	17	1,550	7.0	16	17	3,940	20	26	2,150	639	3.0
7	18	1,360	6.8	17	17	3,790	11	27	2,320	323	2.0
8	18	1,010	8.6	18	12	5,440	9.5	28	1,520	118	2.6
9	16	602	7.0	19	11	10,300	5.9	29	1,020	59	6.9
10	15	197	3.3	20	11	11,700	5.2	30	847	35	80
								31	-	27	-
Monthly mean discharge, in cubic feet per second									327	2,362	16.6
Runoff, in acre-feet									19,440	145,200	985
Runoff, in inches									2.78	20.78	0.14

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		12	13.36	903		May 12		6	19.90	7,650
12	1.47	13		April 30		N	2.42	24	12	20.61	8,860
	April 24		N	12.93	827	12	2.27	20		May 19	
1	1.45	13	12	12.81	831		May 13		N	21.55	10,500
2	1.44	13		May 1		1	2.85	35	12	22.15	11,500
3	1.43	13	N	12.95	886	2	4.41	104		May 20	
4	1.42	12	12	13.08	922	3	5.90	200	3	22.26	11,700
5	1.42	12		May 2		4	8.64	417	6	22.32	11,800
6	1.41	12	N	13.12	925	5	10.34	552	9	22.35	11,900
7	1.41	12	12	12.98	889	6	11.00	616	N	22.36	11,900
8	1.40	12		May 3		7	11.44	680	3	22.31	11,800
9	1.40	12	6	12.84	862	8	11.71	716	6	22.24	11,700
10	1.40	12	N	12.70	824	9	12.03	769	9	22.14	11,500
11	1.40	12	6	13.64	1,080	10	12.35	828	12	22.01	11,300
N	1.40	12	12	14.15	1,190	11	12.59	869		May 21	
1	1.76	20		May 4		N	12.74	887	N	21.38	10,200
2	4.20	94	N	14.24	1,160	1	12.85	895	12	20.58	8,810
3	6.91	285	12	14.59	1,280	2	12.93	898		May 22	
4	8.67	411		May 5		3	12.97	891	N	19.53	7,020
5	10.00	523	N	14.77	1,380	4	13.01	896	12	18.16	4,840
6	10.94	623	12	15.04	1,520	5	13.03	886		May 23	
7	11.64	704		May 6		6	13.05	889	N	16.94	2,890
8	12.15	782	N	15.17	1,580	7	13.06	881	12	15.92	1,960
9	12.63	883	12	15.09	1,530	8	13.09	889		May 24	
10	13.14	1,010		May 7		9	13.11	889	N	15.07	1,430
11	13.50	1,100	N	14.77	1,370	10	13.12	887	12	14.36	1,150
12	13.73	1,130	12	14.32	1,190	11	13.13	894		May 25	
	April 25			May 8		12	13.14	894	N	13.66	958
6	14.29	1,180	N	13.74	1,020		May 14		12	12.90	798
N	14.38	1,180	12	12.92	824	N	13.55	1,010		May 26	
6	14.51	1,250		May 9		12	14.93	1,540	N	12.01	637
12	14.86	1,430	6	12.40	719		May 15		12	10.80	483
	April 26		N	11.76	615	N	16.20	2,340		May 27	
6	15.47	1,800	6	10.92	497	12	16.78	2,890	6	10.02	396
N	16.04	2,200	12	9.83	327		May 16		N	9.18	318
6	16.42	2,540		May 10		6	17.58	3,950	6	8.25	245
12	16.56	2,660	6	8.61	273	N	17.77	4,230	12	7.28	180
	April 27		N	7.38	188	6	17.71	4,120		May 28	
N	16.32	2,370	6	6.15	124	12	17.63	4,010	6	6.43	143
12	15.77	1,890	12	4.99	80		May 17		N	5.63	113
	April 28			May 11		N	17.51	3,840	6	4.90	87
N	15.10	1,490	6	4.03	61	12	17.26	3,470	12	4.33	76
12	14.40	1,190	N	3.34	50		May 18			May 29	
	April 29		6	2.93	37	6	17.07	3,180	N	3.59	58
N	13.79	1,000	12	2.68	30	N	18.10	4,750	12	3.13	43

Long Point Gully near Crowley, La.

Location.--Lat 30°18'42", long 92°23'49", on line between sec. 31 and 32, T. 8 S., R. 1 E., Louisiana meridian, on State Highway 26, 2¾ miles upstream from mouth and 7 miles north of Crowley. Datum of gage is 10.88 ft above mean sea level, datum of 1929.
Drainage area.--25.7 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used Apr. 1-24.
Maxima.--April-June 1953: Discharge, 2,410 cfs 11 a.m. May 16 (gage height, 14.48 ft). 1949 to March 1953: Discharge, 1,540 cfs Jan. 6, 1950 (gage height, 12.83 ft).
Remarks.--Flood runoff not affected by artificial storage. Diversions above station for irrigation by several tractor-operated pumps.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1.0	171	2.6	11	0.7	2.1	0.9	21	1.1	529	0.6
2	.8	45	2.2	12	.7	1.0	.7	22	.9	170	.5
3	.7	9.4	1.5	13	.8	195	.4	23	1.3	51	.6
4	.7	34	1.2	14	.7	327	.4	24	127	10	3.7
5	.7	76	.6	15	.7	384	.6	25	1,580	3.0	3.5
6	.7	25	.6	16	1.4	2,150	1.8	26	945	3.2	2.0
7	.7	11	.6	17	2.5	1,700	.7	27	240	2.0	1.3
8	.7	7.6	.5	18	1.8	1,300	.7	28	54	1.7	1.1
9	.7	4.7	.5	19	1.7	2,090	.6	29	40	1.8	5.2
10	.7	2.5	.5	20	1.3	1,430	.6	30	355	1.8	5.2
								31	-	2.4	-
Monthly mean discharge, in cubic feet per second									112	346	1.40
Runoff, in acre-feet									6,670	21,300	83
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		12	10.37	402		May 1			May 8	
12	3.20	1.8		April 27		6	9.21	221	N	3.78	9.6
1	3.20	1.8	4	9.98	329	N	8.73	163	12	3.57	5.8
2	3.20	1.8	8	9.64	278	6	8.15	118		May 9	
3	3.20	1.8	N	9.31	234	12	7.40	88	N	3.54	5.3
4	3.20	1.8	4	8.92	184		May 2		12	3.27	2.3
5	3.20	1.8	8	8.64	154	4	6.72	72		May 10	
6	3.20	1.8	12	8.27	125	8	5.92	55	N	3.32	2.7
7	3.22	1.9		April 28		N	5.23	40	12	3.26	2.3
8	3.23	2.0	4	7.80	96	4	4.77	30		May 11	
9	3.25	2.1	8	7.19	70	8	4.37	22	N	3.29	2.4
10	3.27	2.2	N	6.38	48	12	3.92	12	12	2.98	1.2
11	3.28	2.2	4	5.49	29		May 3			May 12	
N	3.29	2.3	8	4.81	15	6	3.81	10	N	2.89	.9
1	3.33	2.5	12	4.37	6.4	N	3.75	9.0	12	2.91	1.0
2	3.55	5.0		April 29		6	3.71	8.2		May 13	
3	4.75	29	1	4.31	5.4	12	3.72	8.4	1	2.99	1.2
4	5.87	53	2	4.24	4.4		May 4		2	3.11	1.6
5	7.26	84	3	4.18	3.7	2	3.72	8.4	3	3.25	2.2
6	8.20	121	4	4.13	3.1	4	3.73	8.6	4	4.29	20
7	9.07	203	5	4.10	2.9	6	3.77	9.4	5	5.49	45
8	9.72	289	6	4.06	2.5	8	3.80	10	6	6.47	67
9	10.29	386	7	4.02	2.3	10	3.82	10	7	7.10	80
10	10.87	547	8	4.00	2.2	N	4.33	21	8	7.53	91
11	11.43	806	9	3.97	2.0	2	5.11	37	9	7.85	103
12	11.85	1,020	10	3.96	2.0	4	5.85	53	10	8.08	114
	April 25		11	3.94	1.9	6	6.31	63	11	8.29	126
2	12.40	1,310	N	4.07	2.6	8	6.60	70	N	8.47	140
4	12.75	1,490	1	4.64	12	10	6.83	75	1	8.69	159
6	12.97	1,610	2	5.09	21	12	6.99	78	2	9.00	194
8	13.10	1,670	3	5.76	35		May 5		3	9.39	245
10	13.16	1,700	4	6.43	49	6	7.24	84	4	9.75	293
N	13.19	1,720	5	6.95	64	N	7.19	83	5	10.01	334
2	13.17	1,710	6	7.25	73	6	6.72	72	6	10.21	370
4	13.12	1,680	7	7.50	83	12	5.87	53	7	10.33	394
6	13.05	1,650	8	7.71	92		May 6		8	10.42	412
8	12.95	1,600	9	7.93	103	4	5.18	39	9	10.46	421
10	12.85	1,540	10	8.20	120	8	4.66	28	10	10.47	423
12	12.73	1,480	11	8.69	159	N	4.31	20	11	10.47	423
	April 26		12	9.26	228	4	4.07	15	12	10.46	421
4	12.44	1,330		April 30		8	3.97	13		May 14	
8	12.13	1,170	6	10.50	430	12	3.92	12	8	10.09	348
N	11.75	971	N	10.37	402		May 7		4	9.55	266
4	11.29	736	6	10.02	336	N	4.00	14	12	9.88	313
8	10.80	520	12	9.64	278	12	3.56	5.6		May 15	
									N	10.36	400
									12	10.46	421

Long Point Gully near Crowley, La.--Continued

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	May 16		8	14.21	2,260	6	13.44	1,850	4	12.33	1,270
1	11.05	622	9	14.16	2,240	8	13.66	1,970	12	11.63	909
2	12.52	1,370	10	14.11	2,210	10	13.83	2,060		May 21	
3	13.44	1,850	11	14.05	2,180	12	13.94	2,120	8	10.98	592
4	13.93	2,110	12	14.00	2,150		May 19		4	10.34	396
5	14.17	2,240		May 17		2	14.00	2,150	12	9.71	287
6	14.31	2,320	6	13.62	1,950	4	14.03	2,170		May 22	
7	14.39	2,360	N	13.19	1,720	6	14.05	2,180	8	9.04	199
8	14.44	2,390	6	12.71	1,470	8	14.04	2,170	4	8.27	125
9	14.46	2,400	12	12.19	1,200	10	14.02	2,160	12	7.40	88
10	14.47	2,400		May 18		N	13.98	2,140		May 23	
11	14.48	2,410	2	11.95	1,080	2	13.93	2,110	6	6.51	68
N	14.47	2,400	4	11.73	961	4	13.86	2,080	N	5.62	48
1	14.46	2,400	6	11.49	837	6	13.79	2,040	6	4.88	32
2	14.45	2,390	8	11.26	721	8	13.70	1,990	12	4.39	22
3	14.42	2,380	10	11.10	645	10	13.61	1,940		May 24	
4	14.39	2,360	N	11.55	868	12	13.51	1,890	8	3.92	12
5	14.34	2,330	2	12.48	1,350		May 20		4	3.55	5.4
6	14.30	2,310	4	13.05	1,650	8	13.02	1,630	12	3.35	3.0
7	14.26	2,290									

Bayou Nezpique near Basile, La.

Location.--Lat 30°28'50", long 92°37'55", in NE¼NW¼ sec. 1, T. 7 S., R. 3 W., on U. S. Highway 190, a quarter of a mile downstream from New Orleans, Texas & Mexico Railway bridge and 2 miles west of Basile. Datum of gage is 3.39 ft above mean sea level. datum of 1929, supplementary adjustment of 1941. Auxiliary staff gage 7½ miles downstream.

Drainage area.--527 sq mi.

Gage-height record.--Water-stage recorder graph at base gage and graph based on twice-daily gage readings at auxiliary gage.

Discharge record.--Fall-stage-discharge relation defined by current-meter measurements above 5 ft; stage-discharge relation defined by current-meter measurements below 5 ft. Shifting-control method used June 2-30.

Maxima.--April-June 1953: Discharge, 35,800 cfs 4 p.m. May 20; gage height, 34.39 ft 12 p.m. May 20.
1938 to March 1953: Discharge, 22,900 cfs Aug. 11, 1940 (gage height, 31.08 ft).

Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	481	3,180	144	11	18	4,580	16	21	4.6	32,900	21
2	210	3,040	60	12	16	3,750	20	22	3.5	26,900	17
3	140	2,840	40	13	13	3,500	31	23	3.1	20,500	15
4	93	2,800	41	14	11	3,520	72	24	311	15,300	15
5	62	3,940	35	15	9.8	4,060	103	25	1,770	11,600	15
6	47	7,380	28	16	18	5,100	80	26	2,770	7,110	52
7	38	9,580	22	17	26	6,360	50	27	3,450	4,730	80
8	31	9,640	19	18	16	11,500	35	28	3,560	3,410	52
9	26	7,930	20	19	10	24,800	27	29	3,390	2,440	31
10	22	5,940	17	20	6.4	35,100	24	30	3,270	1,360	21
								31		487	
Monthly mean discharge, in cubic feet per second									661	9,202	40.1
Runoff, in acre-feet									39,330	565,800	2,390
Runoff, in inches									1.40	20.14	0.08

Gage height, in feet, and discharge, in cubic feet per second, at indicated time,

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		12	19.67	3,130		May 11		12	33.67	30,200
12	1.37	3.1		May 2		N	21.44	4,560		May 22	
	April 24		N	19.58	3,060	12	21.01	4,090	N	32.94	27,000
2	1.37	3.1	12	19.41	2,930		May 12		12	32.01	23,400
4	1.37	3.1		May 3		N	20.65	3,730		May 23	
6	1.37	3.1	N	19.25	2,810	12	20.29	3,440	N	30.97	20,400
8	1.37	3.1	12	19.29	2,790		May 13		12	29.83	17,900
10	1.37	3.1		May 4		N	20.53	3,540		May 24	
N	1.37	3.1	N	19.21	2,740	12	20.38	3,470	N	28.60	15,300
2	3.20	56	12	19.43	2,950		May 14		12	27.27	12,700
4	6.61	274		May 5		N	20.24	3,430		May 25	
6	9.73	612	6	19.67	3,180	12	20.59	3,770	N	25.99	10,500
8	12.49	984	N	20.11	3,620		May 15		12	24.74	8,690
10	13.82	1,160	6	20.83	4,540	N	20.82	4,040		May 26	
12	14.60	1,250	12	21.67	5,930	12	21.18	4,390	N	23.57	7,040
	April 25			May 6			May 16		12	22.50	5,660
6	15.54	1,480	N	22.78	7,420	N	21.69	5,120		May 27	
N	16.33	1,780	12	23.68	8,730	12	22.08	5,750	N	21.68	4,690
6	16.93	2,050		May 7			May 17		12	20.98	3,870
12	17.45	2,300	N	24.28	9,810	N	22.46	6,330		May 28	
	April 26		12	24.50	9,980	12	22.89	7,050	N	20.43	3,410
6	17.93	2,590		May 8			May 18		12	19.77	2,940
N	18.31	2,790	2	24.51	10,000	6	23.17	7,570		May 29	
6	18.70	2,980	4	24.50	9,980	N	24.99	11,400	N	18.96	2,440
12	19.02	3,160	6	24.49	9,960	6	26.61	14,800	12	17.84	1,920
	April 27		8	24.47	9,920	12	27.80	17,300		May 30	
N	19.53	3,470	10	24.45	9,800		May 19		6	17.12	1,610
12	19.83	3,690	N	24.42	9,750	6	28.98	20,400	N	16.38	1,360
	April 28		2	24.38	9,590	N	30.43	25,100	6	15.48	1,100
N	19.93	3,550	4	24.32	9,480	6	31.72	28,500	12	14.19	820
12	19.91	3,440	6	24.25	9,350	12	32.91	32,800		May 31	
	April 29		8	24.18	9,230		May 20		6	12.97	633
8	19.84	3,340	10	24.13	9,140	4	33.43	34,400	N	11.47	450
4	20.00	3,440	12	24.07	8,930	8	33.78	35,300	6	10.19	334
12	19.97	3,350		May 9		N	34.07	35,600	12	8.91	239
	April 30		N	23.58	7,960	4	34.23	35,800		June 1	
N	19.88	3,260	12	22.96	6,870	8	34.33	35,600	6	7.86	182
12	19.81	3,210		May 10		12	34.39	35,200	N	6.86	136
	May 1		N	22.39	5,880		May 21		6	5.97	102
N	19.75	3,180	12	21.89	5,120	N	34.20	33,100	12	5.18	77

Calcasieu River near Glenmora, La.

Location.--Lat 30°59'45", long 92°40'25", in SE¼SE¼ sec. 4, T. 1 S., R. 3 W., Louisiana meridian, on State Highway 113, 1.0 mile upstream from Prairie Branch and 4.6 miles northwest of Glenmora. Datum of gage is 110.77 ft above mean sea level (Louisiana Geodetic Survey benchmark).
Drainage area.--499 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurments below 45,000 cfs and extended to peak stage.
Maxima.--April-June 1953: Discharge, 59,900 cfs 8 a.m. May 19 (gage height, 21.55 ft).
1943 to March 1953: Discharge, 33,000 cfs Apr. 25, 1952 (gage height, 19.02 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,020	47,400	200	11	154	2,110	82	21	85	12,000	53
2	976	22,300	176	12	142	1,520	84	22	76	5,640	52
3	744	7,230	158	13	133	2,070	80	23	70	3,580	52
4	436	8,500	142	14	123	2,230	75	24	90	2,690	50
5	287	9,960	128	15	121	2,520	70	25	257	2,150	48
6	234	12,200	116	16	123	5,270	67	26	294	1,620	52
7	203	10,200	105	17	119	14,300	63	27	366	973	51
8	185	5,520	96	18	109	48,300	60	28	333	510	49
9	176	3,580	89	19	103	55,900	57	29	1,930	334	50
10	167	2,660	84	20	95	31,800	56	30	23,700	266	50
								31	-	228	-
Monthly mean discharge, in cubic feet per second									1,095	10,500	83.2
Runoff, in acre-feet									65,160	645,700	4,950
Runoff, in inches									2.45	24.26	0.19

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		12	13.68	4,410	12	14.22	6,610		May 16	
12	5.40	68		April 30			May 4		N	13.90	5,200
3	5.39	67	4	14.33	7,140	N	14.73	9,200	12	14.37	7,350
4	5.80	93	8	15.86	15,100	12	14.69	8,990		May 17	
12	6.51	150	N	17.36	23,200		May 5		6	14.89	10,000
	April 25		4	18.60	31,300	N	14.86	9,870	N	15.42	12,800
8	7.60	237	8	19.53	39,600	12	15.09	11,100	6	15.97	15,600
4	8.41	312	12	20.29	47,100		May 6		12	18.49	30,500
12	8.24	294		May 1		N	15.34	12,400		May 18	
	April 26		1	20.41	48,300	12	15.48	13,100	6	20.10	45,200
8	8.07	277	2	20.53	49,500		May 7		N	20.73	51,500
4	8.23	293	3	20.64	50,600	N	14.93	10,200	6	20.87	52,900
12	8.58	331	4	20.72	51,400	12	14.35	7,240	12	21.22	56,500
	April 27		5	20.75	51,700		May 8			May 19	
N	8.93	376	6	20.78	52,000	N	13.93	5,320	8	21.55	59,900
12	8.96	380	7	20.79	52,100	12	13.62	4,210	4	21.20	56,300
	April 28		8	20.78	52,000		May 9		12	20.24	46,600
N	8.63	338	9	20.77	51,900	N	13.39	3,540		May 20	
12	8.06	276	10	20.73	51,500	12	13.18	3,020	N	18.54	30,900
	April 29		11	20.68	51,000		May 10		12	16.52	18,600
1	8.00	271	N	20.62	50,300	N	12.98	2,640		May 21	
2	7.96	267	1	20.53	49,500	12	12.80	2,360	8	15.50	13,200
3	8.18	288	2	20.43	48,500		May 11		4	14.84	9,770
4	8.77	355	3	20.34	47,600	N	12.62	2,120	12	14.41	7,550
5	9.47	456	4	20.24	46,600	12	12.39	1,830		May 22	
6	9.90	540	5	20.13	45,500		May 12		N	13.95	5,400
7	10.12	595	6	20.01	44,300	3	12.33	1,760	12	13.62	4,210
8	10.31	642	7	19.85	42,700	6	12.26	1,690		May 23	
9	10.54	702	8	19.73	41,500	9	12.18	1,610	N	13.39	3,540
10	11.29	986	9	19.60	40,200	N	12.08	1,510	12	13.19	3,040
11	12.11	1,540	10	19.45	38,800	3	11.96	1,410		May 24	
N	12.63	2,130	11	19.32	37,600	6	11.84	1,310	N	13.00	2,670
1	12.86	2,450	12	19.17	36,200	9	11.72	1,220	12	12.82	2,390
2	13.07	2,800		May 2		12	12.04	1,480		May 25	
3	13.23	3,130	8	17.83	26,000		May 13		N	12.65	2,160
4	13.30	3,300	4	16.29	17,300	N	12.70	2,220	12	12.44	1,890
5	13.32	3,350	12	15.09	11,100	12	12.79	2,350		May 26	
6	13.30	3,300		May 3			May 14		N	12.21	1,640
7	13.26	3,200	4	14.70	9,040	N	12.70	2,220	12	11.81	1,290
8	13.24	3,160	8	14.41	7,550	12	12.62	2,120		May 27	
9	13.26	3,200	N	14.19	6,460		May 15		N	11.23	959
10	13.36	3,460	4	14.04	5,790	N	12.77	2,320	12	10.48	685
11	13.53	3,940	8	14.02	5,700	12	13.31	3,330			

Calcasieu River near Oberlin, La.

Location.--Lat 30°38'25", long 92°48'50", in NW¼NE¼ sec. 7, T. 5 S., R. 4 W., on State Highway 52, 3 miles northwest of Oberlin and 15 miles upstream from Whiskey Chitto Creek. Datum of gage is 39.43 ft above mean sea level, datum of 1929 (Louisiana Geodetic Survey benchmark).
Drainage area.--753 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 72,800 cfs 9 p.m. May 19 (gage height, 26.53 ft).
1922-25, 1938 to March 1953: Discharge, 33,200 cfs Feb. 16, 1950 (gage height, 21.54 ft).
Flood of June 1886 reached a stage of between 22 and 23 ft, present datum.
Remarks.--Flood runoff not affected by artificial storage. Paper mill at Elizabeth pumps about 5 cfs from wells which is later discharged into Mill Creek, 20 miles above station. This discharge is continuous and fairly constant.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,300	5,180	903	11	293	5,860	266	21	120	52,200	153
2	1,250	29,400	734	12	257	4,390	253	22	114	33,200	147
3	1,230	42,800	626	13	221	5,200	242	23	109	16,100	146
4	1,210	32,400	538	14	200	6,980	255	24	224	8,500	143
5	1,150	20,800	471	15	184	9,100	227	25	1,290	5,920	138
6	986	16,800	419	16	166	9,080	204	26	1,380	4,530	128
7	719	14,100	379	17	152	7,010	191	27	980	3,700	123
8	519	13,700	345	18	145	20,800	178	28	708	3,070	122
9	406	12,000	316	19	138	65,400	171	29	689	2,470	122
10	340	8,310	288	20	128	67,600	162	30	1,660	1,820	120
								31	-	1,240	-
Monthly mean discharge, in cubic feet per second									609	17,090	284
Runoff, in thousand acre-feet									36.23	1,051	16.88
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		N	21.27	31,200	6	13.88	4,120	9	26.53	72,800
12	4.45	106	3	22.00	35,600	9	13.73	4,000	12	26.50	72,400
	April 24		6	22.58	39,200	12	13.78	4,040		May 20	
4	4.44	106	9	22.99	41,700		May 13		N	26.23	68,400
8	4.43	105	12	23.24	43,300	4	14.14	4,330	12	25.65	61,200
N	4.48	109		May 3		8	14.66	4,790		May 21	
4	4.87	156	6	23.42	44,400	N	15.05	5,220	6	25.19	56,600
8	5.99	392	N	23.27	43,500	4	15.34	5,640	N	24.63	52,200
12	7.56	843	6	22.99	41,700	8	15.57	6,040	6	23.96	47,800
	April 25		12	22.72	40,100	12	15.75	6,380	12	23.24	43,300
6	8.63	1,190		May 4			May 14			May 22	
N	9.07	1,350	6	22.15	36,500	6	15.90	6,690	6	22.45	38,400
6	9.30	1,440	N	21.48	32,400	N	15.94	6,780	N	21.61	33,200
12	9.40	1,480	6	20.78	28,200	6	16.15	7,260	6	20.76	28,100
	April 26		12	20.27	25,200	12	16.44	8,000	12	19.94	23,200
N	9.24	1,420		May 5			May 15			May 23	
12	8.63	1,190	6	19.84	22,700	N	16.89	9,320	6	19.15	19,000
	April 27		N	19.41	20,300	12	17.02	9,760	N	18.44	15,600
6	8.25	1,070	6	19.09	18,700		May 16		6	17.83	12,900
N	7.92	957	12	18.95	18,000	6	16.98	9,620	12	17.29	10,800
6	7.68	881		May 6		N	16.84	9,160		May 24	
12	7.52	830	N	18.76	17,000	6	16.67	8,640	6	16.88	9,290
	April 28		12	18.35	15,100	12	16.44	8,000	N	16.54	8,270
N	7.13	710		May 7			May 17		6	16.27	7,560
12	6.69	580	N	18.08	13,900	6	16.21	7,400	12	16.02	6,960
	April 29		12	17.98	13,500	N	15.99	6,890		May 25	
8	6.45	513		May 8		6	15.79	6,460	8	15.66	6,200
4	7.14	713	N	18.06	13,800	12	15.84	6,560	4	15.29	5,560
12	8.35	1,100	12	18.04	13,700		May 18		12	14.91	5,050
	April 30			May 9		2	15.92	6,730		May 26	
6	9.00	1,320	N	17.67	12,200	4	16.02	6,960	8	14.54	4,680
N	9.64	1,570	12	17.08	9,980	6	16.52	8,220	4	14.15	4,340
6	10.38	1,920		May 10		8	16.89	9,320	12	13.82	4,080
12	11.58	2,570	6	16.80	9,030	10	17.49	11,500		May 27	
	May 1		N	16.53	8,240	N	18.43	15,500	N	13.31	3,690
3	12.31	3,020	6	16.26	7,530	2	19.51	20,900	12	12.83	3,360
6	13.00	3,480	12	16.00	6,910	4	20.58	27,000		May 28	
9	13.70	3,980		May 11		6	21.57	33,000	N	12.38	3,070
N	14.36	4,510	6	15.74	6,360	8	22.52	38,800	12	11.92	2,770
3	15.05	5,220	N	15.44	5,810	10	23.32	43,800		May 29	
6	15.82	6,520	6	15.14	5,350	12	24.03	48,300	N	11.43	2,480
9	16.50	8,160	12	14.82	4,950		May 19		12	10.86	2,160
12	17.25	10,600		May 12		3	24.85	53,800		May 30	
	May 2		3	14.68	4,810	6	25.49	59,500	N	10.17	1,810
3	18.22	14,500	6	14.50	4,640	9	25.93	64,500	12	9.43	1,490
6	19.35	20,000	9	14.33	4,490	N	26.25	68,700		May 31	
9	20.40	26,000	N	14.17	4,360	3	26.42	71,200	N	8.73	1,230
			3	14.03	4,240	6	26.50	72,400	12	8.13	1,030

Tenmile Creek near Elizabeth, La.

Location.--Lat 30°50'11", long 92°52'26", in NW¼SW¼ sec. 34, T. 2 S., R. 5 W., on State Highway 151, 0.3 mile downstream from Carter Branch and 5.3 miles southwest of Elizabeth. Altitude of gage is 100 ft (from topographic map).
Drainage area.--91.5 sq mi.
Gage-height record.--Water-stage recorder graph except Apr. 1-6 and May 18-27.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 8,900 cfs and extended above on basis of slope-area determination of peak flow. Discharge for Apr. 1-6 and May 18-27 computed on basis of records for stations on nearby streams.
Maxima.--April-June 1953: Discharge, 31,900 cfs May 18 (gage height, 21.33 ft, from floodmark).
1949 to March 1953: Discharge, 4,810 cfs Apr. 30, 1950 (gage height, 15.32 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	50	2,460	52	11	28	82	39	21	24	2,000	32
2	45	1,270	50	12	28	84	42	22	23	1,000	39
3	40	1,000	47	13	27	834	42	23	23	400	108
4	36	3,820	46	14	27	1,370	38	24	69	200	50
5	34	4,220	44	15	29	1,780	38	25	302	150	36
6	33	2,000	43	16	29	1,420	36	26	284	100	32
7	32	1,270	42	17	28	1,550	35	27	136	80	31
8	32	802	41	18	27	20,000	34	28	60	70	32
9	31	218	40	19	26	10,000	34	29	1,160	64	37
10	30	108	40	20	24	5,000	33	30	6,740	58	35
								31	-	54	-
Monthly mean discharge, in cubic feet per second									315	2,047	41.6
Runoff, in acre-feet									18,760	125,900	2,480
Runoff, in inches									3.84	25.79	0.51

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		10	10.72	781	12	12.19	1,290	12	3.90	74
12	2.59	23	11	11.30	875		May 4			May 12	
2	2.59	23	N	11.91	1,140	2	13.64	2,690	N	3.78	69
4	2.59	23	1	12.81	1,720	4	13.76	2,890	12	4.90	122
6	2.59	23	2	13.10	1,980	6	14.03	3,390		May 13	
8	2.59	23	3	13.05	1,930	8	13.87	3,090	2	6.82	234
10	2.59	23	4	13.01	1,890	10	13.67	2,740	4	9.41	432
N	2.80	30	5	13.02	1,900	N	13.82	3,000	6	10.83	714
2	2.90	34	6	13.08	1,960	2	14.27	3,850	8	11.51	960
4	3.13	43	7	13.11	1,990	4	14.72	4,760	10	11.74	1,060
6	3.70	66	8	13.12	2,000	6	14.91	5,180	N	11.77	1,080
8	5.33	145	9	13.10	1,980	8	15.00	5,390	2	11.73	1,060
10	6.87	237	10	13.16	2,050	10	15.07	5,550	4	11.67	1,030
12	7.80	298	11	13.33	2,250	12	15.11	5,410	6	11.60	1,000
	April 25		12	13.66	2,730		May 5		8	11.53	969
N	7.90	305		April 30		N	14.52	4,350	10	11.47	943
12	7.84	301	2	14.38	4,070	12	13.69	2,770	12	11.44	931
	April 26		4	15.20	5,860		May 6			May 14	
N	7.78	297	6	15.84	7,570	N	13.00	1,880	N	12.13	1,260
12	6.90	239	8	16.19	8,640	12	12.49	1,480	12	13.13	2,010
	April 27		10	16.29	8,960		May 7			May 15	
N	4.78	116	N	16.24	8,800	N	12.13	1,260	N	12.89	1,780
12	3.88	73	2	16.07	8,270	12	11.79	1,090	12	12.60	1,560
	April 28		4	15.85	7,600		May 8			May 16	
N	3.50	58	6	15.55	6,740	8	11.45	935	N	12.40	1,420
12	3.28	49	8	15.20	5,860	4	10.85	720	12	12.20	1,300
	April 29		10	14.84	5,030	12	9.25	415		May 17	
1	3.26	48	12	14.52	4,350		May 9		6	12.18	1,290
2	3.25	48		May 1		8	6.72	228	N	12.20	1,300
3	3.34	52	N	13.11	1,990	4	5.52	156	6	12.20	1,300
4	3.85	72	12	12.51	1,500	12	5.01	128	12	13.99	3,310
5	5.10	132		May 2			May 10			May 18	
6	6.73	229	N	12.11	1,250	N	4.60	107	2	14.68	4,680
7	9.11	401	12	11.76	1,070	12	4.30	92	4	15.47	6,530
8	10.11	532		May 3			May 11		6	16.38	9,250
9	10.46	610	N	11.18	828	N	4.05	80	8	18.72	18,000

Whiskey Chitto Creek near Oberlin, La.

Location.--Lat 30°41'55", long 92°53'35", in NE¼NE¼ sec. 20, T. 4 S., R. 5 W., on State Highway 52, 1 mile downstream from Tenmile Creek, 8 miles upstream from Bundick Creek, and 10 miles northwest of Oberlin. Datum of gage is 46.24 ft above mean sea level (Louisiana Geodetic Survey benchmark).
Drainage area.--510 sq mi.
Gage-height record.--Water-stage recorder graph to 5 p.m. May 18; graph based on flood mark, engineers' readings, and observations by local residents May 18 to June 8; graph based on twice-daily observer's readings June 9-30.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 35,000 cfs and extended on basis of slope-area determination of peak flow.
Maxima.--April-June 1953: Discharge, 144,000 cfs 12 p.m. May 18 (gage height, 32.8 ft, from floodmark).
1939 to March 1953: Discharge, 35,000 cfs Aug. 9, 1940 (gage height, 23.42 ft).
Flood of June 1886 reached a stage of 25.7 ft, from floodmarks preserved by local residents.
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	525	33,000	682	11	318	1,250	416	21	256	17,000	324
2	453	11,000	635	12	308	1,010	497	22	250	7,070	326
3	418	6,890	594	13	294	2,650	629	23	244	3,700	411
4	392	11,200	561	14	292	4,420	497	24	393	2,580	624
5	373	20,500	533	15	344	5,420	405	25	1,540	1,860	624
6	360	18,200	504	16	326	6,030	379	26	1,570	1,410	465
7	348	9,430	477	17	310	5,630	364	27	1,260	1,140	364
8	342	6,320	456	18	308	42,800	352	28	776	995	340
9	342	4,450	442	19	284	108,000	350	29	1,550	890	322
10	332	2,280	425	20	264	36,100	340	30	16,800	806	392
								31	-	742	-
Monthly mean discharge, in cubic feet per second									1,052	12,090	458
Runoff, in acre-feet									62,620	743,400	27,230
Runoff, in inches									2.30	27.33	1.00

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		8	23.58	34,300	6	14.06	4,030		May 19	
12	4.25	244	10	24.30	40,100	12	12.91	3,460	2	32.77	143,000
	April 24		12	24.67	43,400		May 10		4	32.74	143,000
6	4.43	280		May 1		6	11.51	2,830	6	32.52	139,000
N	4.68	330	3	24.85	45,000	N	9.98	2,160	8	31.95	130,000
6	5.25	452	6	24.62	42,900	6	8.88	1,690	10	31.12	118,000
12	6.43	774	9	24.12	38,700	12	8.27	1,440	N	30.55	110,000
	April 25		N	23.51	33,800		May 11		2	29.82	99,500
4	7.60	1,180	3	22.84	28,900	6	7.97	1,330	4	29.12	90,300
8	8.36	1,480	6	22.15	24,300	N	7.76	1,240	6	28.36	81,000
N	8.91	1,710	9	21.45	20,100	6	7.56	1,170	8	27.65	73,200
4	9.14	1,800	12	20.80	16,800	12	7.38	1,100	10	26.92	65,200
8	9.17	1,810		May 2			May 12		12	26.18	57,800
12	9.04	1,760	6	19.75	12,700	N	7.10	1,000		May 20	
	April 26		N	18.94	10,100	12	6.96	953	6	24.47	41,600
N	8.53	1,550	6	18.38	8,780		May 13		N	23.38	32,700
12	8.22	1,420	12	17.88	7,780	4	7.92	1,310	6	22.84	28,900
	April 27			May 3		8	10.00	2,170	12	22.20	24,600
N	7.90	1,300	6	17.42	8,010	N	11.70	2,920		May 21	
12	7.19	1,030	N	17.02	6,430	4	12.62	3,330	6	21.52	20,500
	April 28		6	16.80	6,140	8	13.36	3,680	N	20.75	16,600
N	6.36	752	12	16.82	6,170	12	13.95	3,980	6	19.94	13,400
12	5.72	569		May 4			May 14		12	19.07	10,600
	April 29		6	17.35	6,900	N	14.73	4,420		May 22	
2	5.64	548	N	18.60	9,290	12	15.36	4,870	6	18.14	8,270
4	5.61	541	6	20.68	16,300		May 15		N	17.21	6,700
6	5.55	525	12	21.09	18,200	N	16.02	5,420	6	16.25	5,630
8	5.53	520		May 5		12	16.65	5,960	12	15.26	4,790
10	5.68	559	N	21.54	20,600		May 16			May 23	
N	6.48	790	12	21.87	22,600	N	16.81	6,150	6	14.18	4,100
2	8.78	1 650		May 6		12	16.48	5,870	N	13.00	3,500
4	10.08	2,200	6	21.74	21,800		May 17		6	12.45	3,260
6	11.15	2,670	N	21.15	18,400	N	16.19	5,570	12	11.92	3,020
8	11.99	3,050	6	20.40	15,200	12	16.11	5,500		May 24	
10	12.80	3,420	12	19.60	12,200		May 18		6	11.41	2,790
12	13.58	3,790		May 7		2	16.26	5,640	N	10.91	2,560
	April 30		6	19.00	10,400	4	16.45	5,840	6	10.44	2,360
2	14.26	4,140	N	18.58	9,240	6	16.71	6,030	12	10.02	2,170
4	14.93	4,550	6	18.12	8,230	8	17.36	6,920		May 25	
6	15.96	5,360	12	17.71	7,490	10	17.98	7,960	6	9.62	2,000
8	17.54	7,200		May 8		N	19.40	11,600	N	9.26	1,850
10	18.84	9,910	N	16.86	6,220	2	22.30	25,200	6	9.93	1,710
N	19.81	12,900	12	15.93	5,340	4	25.50	51,000	12	8.62	1,590
2	20.35	15,000		May 9		6	28.10	78,100		May 26	
4	21.20	18,700	6	15.40	4,900	8	30.30	106,000	N	8.15	1,400
6	22.40	25,800	N	14.82	4,470	10	32.20	134,000	12	7.78	1,250
						12	32.80	144,000			

Bundick Creek near Dry Creek, La.

Location.--Lat 30°40'55", long 93°02'15", on line between NE¼ and NW¼ sec. 25, T. 4 S., R. 7 W., on State Highway 251, 1 mile northeast of town of Dry Creek and 8 miles upstream from mouth. Datum of gage is 56.92 ft above mean sea level (Louisiana Geodetic Survey benchmark).
Drainage area.--238 sq mi.
Gage-height record.--Water-stage recorder graph except June 14-30.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 15,000 cfs and extended on basis of slope-area and contracted-opening determination of peak flow. Discharge for June 14-30 estimated on basis of records for stations on nearby streams.
Maxima.--April-June 1953: Discharge, 37,000 cfs 2 a.m. May 19 (gage height, 23.67 ft, from floodmark).
1939 to March 1953: Discharge, 22,500 cfs Feb. 14, 1950 (gage height, 19.23 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	194	13,100	199	11	125	418	145	21	102	3,090	130
2	171	3,800	188	12	121	336	350	22	100	2,040	130
3	158	2,260	178	13	118	1,490	560	23	99	1,630	200
4	149	4,800	170	14	115	1,600	300	24	148	954	300
5	143	6,390	163	15	119	1,630	250	25	929	466	300
6	137	6,780	157	16	121	1,620	200	26	816	372	250
7	133	3,210	153	17	118	1,710	180	27	557	328	180
8	130	2,030	150	18	120	15,800	160	28	305	289	130
9	130	1,510	147	19	112	29,200	150	29	1,220	258	125
10	129	628	145	20	105	8,640	140	30	12,200	237	150
								31	-	216	-
Monthly mean discharge, in cubic feet per second									637	3,769	199
Runoff, in acre-feet									37,930	231,700	11,860
Runoff, in inches									2.99	18.26	0.93

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		N	17.39	11,000		May 11		7	21.70	28,600
12	3.06	99	2	18.46	15,300	N	5.61	484	8	22.03	30,000
	April 24		4	19.31	18,800	12	5.35	316	9	22.50	32,000
2	3.06	99	6	19.83	21,000		May 12		10	22.98	34,100
4	3.06	99	8	20.10	22,100	N	5.15	291	11	23.42	35,900
6	3.06	99	10	20.15	22,300	12	6.39	444	12	23.60	36,700
8	3.06	99	12	20.00	21,600		May 13			May 19	
10	3.06	99		May 1		3	9.23	883	2	23.67	37,000
N	3.06	99	4	19.44	19,400	6	11.67	1,340	4	23.51	36,300
2	3.33	120	8	18.69	16,300	9	12.53	1,580	6	23.15	34,800
4	3.42	127	N	17.80	12,600	N	12.98	1,710	8	22.72	32,900
6	3.70	148	4	17.05	9,570	3	13.18	1,780	10	22.40	31,600
8	4.20	189	8	16.41	7,120	6	13.23	1,800	N	22.03	30,000
10	5.31	310	12	15.90	5,690	9	13.13	1,770	2	21.70	28,600
12	6.70	488		May 2		12	13.01	1,720	4	21.21	26,600
	April 25		N	14.88	3,500		May 14		6	20.65	24,300
6	9.46	920	12	14.21	2,500	N	12.35	1,520	8	20.09	22,000
N	10.27	1,060		May 3		12	12.67	1,620	10	19.52	19,700
6	10.03	1,020	N	13.75	2,080		May 15		12	18.93	17,300
12	9.59	941	12	14.09	2,370	N	12.73	1,640		May 20	
	April 26			May 4		12	12.67	1,620	6	17.50	11,400
N	8.81	816	3	14.86	3,470		May 16		N	16.41	7,120
12	8.03	691	6	15.68	5,200	N	12.70	1,630	6	15.73	5,310
	April 27		9	15.73	5,310	12	12.67	1,620	12	15.22	4,180
N	7.22	566	N	15.73	5,310		May 17			May 21	
12	6.10	406	3	15.68	5,200	N	12.86	1,680	N	14.53	2,920
	April 28		6	15.66	5,150	12	13.39	1,870	12	14.06	2,340
N	5.18	295	9	15.63	5,090		May 18			May 22	
12	4.56	224	12	15.61	5,040	1	13.50	1,920	N	13.65	2,010
	April 29			May 5		2	13.62	1,990	12	13.24	1,810
2	4.45	213	N	15.88	5,640	3	13.80	2,110		May 23	
4	4.45	213	12	16.97	9,250	4	14.00	2,280	N	12.77	1,650
6	4.61	230		May 6		5	14.22	2,510	12	11.91	1,400
8	5.86	375	N	16.28	6,710	6	14.57	2,980		May 24	
10	8.01	688	12	15.33	4,430	7	15.13	3,990	N	9.44	916
N	10.22	1,050		May 7		8	15.93	5,760	12	7.35	586
2	11.70	1,340	N	14.60	3,030	9	16.64	7,930		May 25	
4	12.79	1,660	12	14.07	2,350	10	17.24	10,300	N	6.41	446
6	13.42	1,880		May 8		11	17.75	12,400	12	5.96	388
8	14.10	2,380	N	13.63	2,000	N	18.25	14,500		May 26	
10	14.49	2,870	12	13.15	1,770	1	18.74	16,500	N	5.85	374
12	14.71	3,210		May 9		2	19.35	19,000	12	5.66	351
	April 30		8	12.78	1,650	3	19.77	20,700		May 27	
2	14.86	3,470	4	12.15	1,460	4	20.32	23,000	N	5.46	327
4	15.01	3,750	12	10.38	1,080	5	20.82	25,000	12	5.28	306
6	15.26	4,270		May 10		6	21.25	26,800			
8	15.66	5,150	N	6.91	520						
10	16.41	7,120	12	5.98	390						

Calcasieu River near Kinder, La.

Location.--Lat 30°30'10", long 92°54'55", in NW¼SE¼ sec. 30, T. 6 S., R. 5 W., on U. S. Highway 190, 0.5 mile downstream from Whiskey Chitto Creek and 4 miles west of Kinder. Datum of gage is 12.02 ft above mean sea level, datum of 1929 (Louisiana Geodetic Survey benchmark).
Drainage area.--1,700 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Discharge adjusted for rate-of-change effect above 8 ft.
Maxima.--April-June 1953: Discharge, 182,000 cfs 12 p.m. May 19 (gage height, 32.00 ft)
1922-25, 1938 to March 1953: Discharge, 68,000 cfs Dec. 23, 1923 (gage height, 21.69 ft, datum then in use, or about 23.5 ft present datum); gage height, 24.7 ft Aug. 11, 1940 (discharge, 64,400 cfs).
Flood in 1913 reached a stage about 0.3 ft higher than that of Aug. 11, 1940
Remarks.--Flood runoff not affected by artificial storage. Paper mill at Elizabeth pumps about 5 cfs from wells which is later discharged into Mill Creek 36 miles above station. This discharge is continuous and fairly constant. Water is diverted during period April to September at points just above station and 5 miles above station for irrigation. The maximum rate of withdrawal is about 100 cfs which results in marked fluctuation at low flow.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	2,170	30,000	2,000	11	782	11,500	849	21	505	119,000	586
2	1,920	44,900	1,660	12	765	7,660	889	22	496	77,000	570
3	1,790	49,000	1,440	13	697	7,950	1,070	23	487	43,200	583
4	1,710	56,000	1,310	14	654	12,200	1,200	24	833	22,800	826
5	1,640	54,800	1,200	15	638	18,200	1,170	25	3,610	12,900	1,170
6	1,530	53,300	1,120	16	661	20,600	885	26	4,940	8,020	1,180
7	1,320	44,600	1,060	17	618	18,800	762	27	4,020	5,980	885
8	1,060	29,800	997	18	602	22,600	697	28	2,800	4,800	717
9	915	23,200	953	19	577	135,000	644	29	2,060	3,960	745
10	835	18,300	889	20	542	166,000	612	30	4,980	3,290	731
								31	-	2,590	-
Monthly mean discharge, in cubic feet per second									1,539	36,390	980
Runoff, in thousand acre-feet									91.55	2,237	58.31
Runoff, in inches									-	-	-

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24			May 2			May 16		10	29.04	137,000
12	3.79	472	4	21.93	49,900	3	17.78	20,600	11	29.51	144,000
8	3.77	466	8	21.81	47,800	6	17.83	20,900	N	29.91	150,000
4	4.57	721	N	21.56	45,100	9	17.86	20,800	1	30.29	155,000
12	7.80	2,150	4	21.21	41,800	N	17.88	20,900	2	30.61	160,000
	April 25		8	20.84	39,200	3	17.89	20,800	3	30.90	164,000
N	9.96	3,770	12	20.81	40,600	6	17.88	20,500	4	31.25	170,000
12	11.36	4,740		May 3		9	17.86	20,400	5	31.35	172,000
	April 26		N	21.71	49,300	12	17.84	20,100	6	31.54	175,000
N	12.06	5,090	12	22.58	56,600		May 17		7	31.69	177,000
12	12.00	4,840		May 4		N	17.61	18,900	8	31.79	179,000
	April 27		8	22.68	57,000	12	17.32	17,400	9	31.89	180,000
N	11.34	3,950	4	22.58	55,400		May 18		10	31.95	181,000
12	10.34	3,360	12	22.41	54,400	1	17.30	17,300	11	31.99	182,000
	April 28			May 5		2	17.23	17,200	12	32.00	182,000
N	9.20	2,790	N	22.50	55,200	3	17.26	17,200		May 20	
12	7.98	2,240	12	22.44	54,200	4	17.24	17,100	N	31.16	169,000
	April 29			May 6		5	17.22	17,000	12	29.45	143,000
2	7.79	2,140	N	22.32	53,500	6	17.21	17,200		May 21	
4	7.62	2,050	12	22.22	52,100	7	17.28	17,800	8	28.30	126,000
6	7.43	1,950		May 7		8	17.29	17,800	4	27.20	111,000
8	7.25	1,860	N	21.55	45,000	9	17.31	18,200	12	26.12	96,600
10	7.13	1,800	12	20.51	36,300	10	17.40	19,500		May 22	
N	7.20	1,840		May 8		11	17.48	19,900	8	25.07	82,900
2	7.21	1,840	6	20.00	32,300	N	17.60	20,500	4	24.02	70,700
4	7.32	1,900	N	19.53	29,200	1	17.68	21,000	12	22.98	58,200
6	7.53	2,000	6	19.15	27,100	2	17.74	21,400		May 23	
8	7.87	2,180	12	18.83	25,200	3	17.83	21,900	8	21.96	47,600
10	8.35	2,540		May 9		4	17.94	23,000	4	20.87	37,900
12	8.80	2,940	N	18.42	23,200	5	18.06	23,700	12	19.78	29,900
	April 30		12	18.08	21,400	6	18.21	24,600		May 24	
8	10.64	4,540		May 10		7	18.32	25,300	N	18.49	22,200
4	11.99	5,550	N	17.61	18,500	8	18.49	26,800	12	17.36	16,700
12	13.14	6,770	12	16.92	14,700	9	18.69	28,800		May 25	
	May 1			May 11		10	19.05	34,100	N	16.45	12,600
2	13.44	7,510	N	16.06	11,200	11	19.60	40,900	12	15.59	9,570
4	14.02	9,560	12	15.26	8,840	12	20.33	49,300		May 26	
6	14.83	12,300		May 12			May 19		N	14.86	7,900
8	16.06	17,900	N	14.61	7,440	1	21.27	60,300	12	14.21	6,710
10	17.34	25,400	12	14.00	6,900	2	22.17	66,700		May 27	
N	18.50	32,200		May 13		3	23.17	69,400	N	13.59	5,940
2	19.55	39,400	N	14.30	7,720	4	24.20	72,700	12	12.97	5,320
4	20.60	44,300	12	15.03	9,460	5	25.21	84,700		May 28	
6	20.91	45,900		May 14		6	26.13	96,700	N	12.37	4,790
8	21.33	47,600	N	15.81	11,800	7	26.98	108,000	12	11.75	4,370
10	21.62	49,500	12	16.74	15,900	8	27.80	119,000		May 29	
12	21.84	50,100		May 15		9	28.48	129,000	N	11.18	3,980

Beckwith Creek near De Quincy, La.

Location.--Lat 30°28'10", long 93°21'50", in NW¼ sec. 11, T. 7 S., R. 10 W., on State Highway 7, a quarter of a mile upstream from New Orleans, Texas & Mexico Railway bridge, 2½ miles upstream from unnamed tributary, and 4 miles northeast of De Quincy. Datum of gage is 25.29 ft above mean sea level, datum of 1929.
Drainage area.--148 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 6,500 cfs and extended to peak stage.
Maxima.--April-June 1953: Discharge, 10,600 cfs 10 p.m. May 19 (gage height, 23.23 ft).
1945 to March 1953: Discharge, 8,930 cfs Feb. 14, 1950 (gage height, 22.40 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	98	3,020	24	11	14	132	11	21	6.6	3,310	6.3
2	52	3,480	21	12	13	76	9.8	22	6.2	1,760	5.8
3	39	1,920	9.0	13	12	748	9.3	23	6.0	1,180	5.5
4	32	2,390	17	14	11	972	8.6	24	532	691	7.4
5	27	3,160	15	15	9.8	1,340	8.3	25	2,570	194	37
6	23	3,210	14	16	9.1	1,480	8.8	26	1,600	83	29
7	20	2,570	13	17	8.4	1,260	9.3	27	1,030	58	24
8	18	1,640	12	18	8.4	1,550	9.3	28	671	45	15
9	17	1,120	11	19	7.8	8,050	7.9	29	1,100	37	14
10	16	585	10	20	7.2	7,940	7.0	30	1,950	31	12
								31	-	27	-
Monthly mean discharge, in cubic feet per second									330	1,744	13.0
Runoff, in acre-feet									19,670	107,200	776
Runoff, in inches									2.49	13.58	0.10

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		10	13.45	1,070		May 6			May 16	
12	1.77	5.8	11	14.90	1,300	N	19.53	3,420	N	16.30	1,540
	April 24		N	15.15	1,340	12	19.43	3,280	12	15.79	1,440
2	1.77	5.8	1	15.39	1,380		May 7			May 17	
4	1.77	5.8	2	15.62	1,420	N	18.72	2,520	N	14.54	1,240
6	1.77	5.8	3	15.87	1,460	12	17.85	1,960	12	13.87	1,140
8	1.77	5.8	4	16.18	1,520		May 8			May 18	
10	1.77	5.8	5	16.44	1,570	8	17.15	1,730	6	14.03	1,160
N	3.20	40	6	16.70	1,620	4	16.26	1,530	N	15.49	1,390
2	7.67	359	7	16.98	1,680	12	15.28	1,360	6	17.22	1,750
4	11.98	865	8	17.22	1,750		May 9		12	18.85	2,640
6	14.68	1,260	9	17.43	1,810	N	13.68	1,110		May 19	
8	15.60	1,410	10	17.66	1,890	12	12.09	880	2	19.93	4,070
10	16.40	1,560	11	17.85	1,960		May 10		4	20.70	5,460
12	17.14	1,720	12	18.00	2,040	4	11.52	806	6	21.19	6,390
	April 25			April 30		8	10.83	716	8	21.56	7,120
4	18.45	2,320	6	18.33	2,240	N	9.96	609	10	21.90	7,800
8	19.15	2,940	N	17.94	2,000	4	8.80	477	N	22.26	8,520
N	19.25	3,050	6	17.26	1,760	8	7.48	342	2	22.67	9,380
4	19.00	2,780	12	16.49	1,580	12	6.26	235	4	22.92	9,900
8	18.58	2,410		May 1			May 11		6	23.11	10,300
12	18.09	2,080	3	16.27	1,530	N	4.47	107	8	23.21	10,500
	April 26		6	16.56	1,590	12	3.98	79	10	23.23	10,600
8	17.06	1,700	9	17.40	1,800		May 12		12	23.19	10,500
4	15.78	1,440	N	18.67	2,480	8	3.81	69		May 20	
12	14.57	1,240	3	19.84	3,920	4	3.64	60	8	22.55	9,120
	April 27		6	20.32	4,760	12	4.67	119	4	21.49	6,980
8	13.55	1,090	9	20.41	4,920		May 13		12	20.43	4,950
4	12.63	955	12	20.34	4,790	3	6.87	287		May 21	
12	11.83	846		May 2		6	8.96	495	N	19.27	3,070
	April 28		8	19.83	3,900	9	10.70	699	12	18.21	2,160
N	10.58	684	4	19.18	2,970	N	11.92	858		May 22	
12	8.73	469	12	18.51	2,360	3	12.78	976	N	17.15	1,730
	April 29			May 3		6	13.21	1,040	12	15.72	1,430
1	8.53	447	8	17.85	1,960	9	13.33	1,050		May 23	
2	8.35	428	4	17.16	1,730	12	13.20	1,040	N	14.13	1,170
3	8.20	412	12	17.27	1,760		May 14		12	12.56	945
4	8.07	399		May 4		6	12.47	933		May 24	
5	7.89	381	N	18.35	2,250	N	11.62	819	N	10.83	716
6	7.67	359	12	19.45	3,310	6	12.95	1,000	12	7.95	387
7	7.41	336		May 5		12	14.50	1,230		May 25	
8	7.15	312	N	19.45	3,310		May 15		8	5.90	206
9	7.80	372	12	18.95	2,730	N	15.34	1,370	4	4.85	131
						12	15.57	1,410	12	4.42	104

Hickory Branch at Kernan, La.

Location.--Lat 30°30'05", long 93°16'45", in NW¼ sec. 34, T. 6 S., R. 9 W., on State Highway 7, 120 ft upstream from New Orleans, Texas & 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.
Gage-height record.--Water-stage recorder graph except June 7-10, 17-30.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 3,500 cfs and extended to peak stage by logarithmic plotting. Shifting-control method used May 22 to June 6 and June 11-16. Discharge for June 7-10, 17-30 estimated on basis of records for stations on nearby streams.
Maxima.--April-June 1953: Discharge, 6,080 cfs 9 a.m. May 19 (gage height, 26.26 ft). 1945 to March 1953: Discharge, 5,950 cfs June 21, 1947 (gage height, 26.0 ft, from graph based on gage readings).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	19	1,740	7.0	11	2.8	23	2.4	21	1.1	578	2.5
2	14	461	5.6	12	2.2	46	15	22	1.0	116	2.5
3	10	296	4.4	13	2.0	2,030	28	23	.9	57	2.5
4	8.6	3,120	4.0	14	1.7	1,340	13	24	962	39	2.5
5	7.5	3,160	2.4	15	1.7	1,580	7.5	25	2,280	29	2.5
6	6.1	1,400	1.9	16	1.4	1,440	4.0	26	846	22	2.5
7	7.0	379	2	17	1.4	813	3	27	292	18	2.0
8	7.0	78	2	18	1.2	1,730	3	28	76	14	2.0
9	5.2	43	2	19	1.2	5,230	3	29	1,990	12	2.0
10	3.6	30	2	20	1.1	2,260	3	30	3,950	9.8	2.0
								31	-	8.0	-
Monthly mean discharge, in cubic feet per second									350	907	4.61
Runoff, in acre-feet									20,830	55,740	274
Runoff, in inches									4.75	12.71	0.06

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		12	4.34	121	4	12.61	1,310		May 6	
12	2.51	1.0		April 28		8	11.50	1,100	6	14.52	1,710
1	2.51	1.0	N	3.67	68	12	10.61	930	N	12.58	1,310
2	2.51	1.0	12	3.42	50		May 2		6	11.07	1,020
3	2.51	1.0		April 29		6	9.15	682	12	9.85	798
4	2.51	1.0	1	3.39	48	N	7.25	418		May 7	
5	2.51	1.0	2	3.37	47	6	5.32	215	6	8.30	552
6	2.51	1.0	3	3.36	46	12	4.43	129	N	6.40	324
7	2.51	1.0	4	3.34	45		May 3		6	5.00	183
8	2.51	1.0	5	3.33	44	1	4.34	121	12	4.30	117
9	3.50	56.0	6	3.45	52	2	4.27	115		May 8	
10	4.10	101	7	4.29	116	3	4.19	108	N	3.73	72
11	5.00	183	8	5.14	197	4	4.13	103	12	3.45	52
N	6.08	291	9	7.38	433	5	4.07	99		May 9	
1	8.40	566	10	11.74	1,140	6	4.00	93	N	3.30	42
2	10.85	973	11	14.54	1,720	7	3.96	90	12	3.20	35
3	12.75	1,340	N	16.34	2,180	8	3.90	85		May 10	
4	14.18	1,640	1	17.92	2,650	9	3.87	83	N	3.13	30
5	15.28	1,890	2	19.02	3,020	10	3.83	79	12	3.07	26
6	16.08	2,110	3	19.80	3,290	11	3.79	76		May 11	
7	16.78	2,310	4	20.26	3,450	N	3.77	75	N	3.03	23
8	17.25	2,440	5	20.81	3,660	1	3.73	72	12	2.99	20
9	17.59	2,550	6	21.06	3,760	2	4.53	138		May 12	
10	17.80	2,610	7	21.23	3,830	3	5.15	198	1	2.99	20
11	17.99	2,670	8	21.38	3,890	4	5.68	251	2	2.99	20
12	18.12	2,710	9	21.50	3,940	5	5.91	274	3	2.98	20
	April 25		10	21.65	4,000	6	6.73	360	4	2.98	20
3	18.30	2,760	11	21.78	4,050	7	7.40	435	5	2.97	19
6	18.21	2,730	12	21.90	4,100	8	7.80	484	6	2.97	19
9	17.86	2,630		April 30		9	8.75	619	7	2.97	19
N	17.17	2,410	2	21.96	4,120	10	10.50	910	8	2.97	19
3	16.33	2,180	4	22.10	4,180	11	12.75	1,340	9	2.96	18
6	15.27	1,890	6	22.14	4,200	12	14.40	1,680	10	2.96	18
9	14.05	1,610	8	22.17	4,210		May 4		11	2.96	18
12	12.85	1,360	10	22.18	4,210	3	17.41	2,490	N	2.96	18
	April 26		N	22.14	4,200	6	18.71	2,910	1	2.95	18
4	11.42	1,080	2	21.96	4,120	9	19.20	3,080	2	2.95	18
8	10.63	933	4	21.66	4,000	N	19.76	3,280	3	2.95	18
N	9.92	809	6	21.18	3,810	3	20.32	3,470	4	2.95	18
4	9.32	709	8	20.40	3,500	6	20.64	3,600	5	2.94	17
8	8.69	610	10	19.69	3,250	9	20.74	3,640	6	2.94	17
12	8.00	510	12	18.99	3,010	12	20.69	3,620	7	2.94	17
	April 27			May 1			May 5		8	2.94	17
6	6.96	386	4	17.30	2,460	6	20.33	3,480	9	2.94	17
N	6.00	283	8	15.56	1,970	N	19.86	3,310	10	4.30	117
6	5.02	185	N	14.00	1,600	6	18.70	2,910	11	6.90	379
						12	16.79	2,310	12	8.90	642

Hickory Branch at Kernan, La.--Continued

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	May 13		2	10.35	883		May 18		12	22.15	4,200
			4	11.00	1,000	2	8.36	560		May 20	
2	12.80	1,350	6	13.21	1,430	4	8.52	584	4	20.05	3,380
4	15.23	1,880	8	14.47	1,700	6	8.68	608	8	17.92	2,650
6	16.50	2,230	10	14.90	1,800	8	8.84	632	N	15.75	2,020
8	17.05	2,380	12	14.93	1,810	10	9.90	806	4	13.91	1,580
10	17.25	2,440		May 15		N	13.30	1,450	8	12.40	1,270
N	17.19	2,430	4	14.43	1,690	2	16.00	2,090	12	11.29	1,060
2	16.91	2,340	8	13.81	1,560	4	17.41	2,490		May 21	
4	16.54	2,240	N	13.90	1,470	6	18.60	2,870	6	9.89	804
6	16.09	2,110	4	14.01	1,600	8	19.47	3,170	N	8.30	552
8	15.56	1,970	8	13.90	1,470	10	20.14	3,410	6	6.45	330
10	15.04	1,830	12	13.77	1,550	12	20.70	3,620	12	5.12	195
12	14.45	1,690		May 16			May 19			May 22	
	May 14		6	13.70	1,530	3	22.70	4,430	N	4.06	101
2	13.86	1,570	N	13.55	1,500	6	25.65	5,780	12	3.62	68
4	13.19	1,430	6	12.95	1,380	9	26.26	6,080		May 23	
6	12.55	1,300	12	11.95	1,180	N	25.98	5,940	N	3.46	57
8	11.91	1,170		May 17		3	25.35	5,640	12	3.30	46
10	11.38	1,070	N	9.64	762	6	24.50	5,240		May 24	
N	10.82	968	12	8.27	548	9	23.50	4,790	N	3.20	39
									12	3.11	33

Sabine River near Mineola, Tex.

Location.--Lat 32°36'45", long 95°29'10", at bridge on U. S. Highway 69, 3.2 miles south of Mineola, Wood County, 4.5 miles upstream from International-Great Northern (Missouri Pacific) Railroad bridge, and at mile 461. Datum of gage is 304.16 ft above mean sea level, datum of 1929.
Drainage area.--1,445 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used April 1-23, May 25 to June 29.
Maxima.--April-June 1953: Discharge, 32,300 cfs 8 a.m. May 2 (gage height, 19.91 ft). 1939 to March 1953: Discharge, 76,000 cfs Apr. 1, 1945; gage height, 24.37 ft June 8, 1943.
Stage known since at least 1915, that of June 8, 1943.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	648	21,800	41	11	632	408	8.1	21	51	8,180	1.9
2	374	31,100	34	12	395	1,770	6.8	22	40	6,280	1.7
3	244	20,700	29	13	278	4,870	6.0	23	35	4,780	1.6
4	277	9,960	24	14	449	6,980	5.0	24	276	2,670	1.4
5	232	6,720	20	15	643	9,670	4.4	25	850	1,100	1.1
6	181	4,830	17	16	753	19,100	3.5	26	1,280	367	1.1
7	146	2,400	14	17	670	20,400	3.1	27	1,800	174	1.0
8	146	858	12	18	333	17,000	2.6	28	2,300	139	1.0
9	315	238	11	19	124	14,500	2.2	29	3,640	92	3.1
10	571	150	9.2	20	69	11,300	2.0	30	6,430	64	6.0
								31	-	50	-
Monthly mean discharge, in cubic feet per second									806	7,376	9.16
Runoff, in acre-feet									48,000	453,500	545
Runoff, in inches									0.62	5.89	0.007

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23			May 3		N	13.60	1,560		May 23	
N	2.92	34	6	19.01	24,600	6	15.00	2,450	N	16.59	4,820
7	2.89	33	N	18.64	20,700	10	15.67	3,120	6	16.40	4,400
9	3.02	37	6	18.31	16,700	12	15.90	3,460	12	16.13	3,870
12	3.14	42	12	18.03	13,400		May 13			May 24	
	April 24			May 4		4	16.21	4,020	6	15.72	3,190
2	3.32	49	6	17.81	11,100	8	16.44	4,480	N	15.20	2,610
4	4.04	82	N	17.64	9,520	N	16.62	4,900	6	14.56	2,110
6	4.85	130	12	17.36	7,760	12	17.01	6,140	12	13.83	1,680
N	6.40	255		May 5			May 14			May 25	
6	8.00	418	N	17.14	6,660	6	17.15	6,700	N	12.00	1,050
12	9.30	584	12	16.91	5,780	N	17.19	6,860	6	10.90	840
	April 25			May 6		12	17.38	7,880	12	9.60	627
6	10.37	745	N	16.63	4,920		May 15			May 26	
N	11.08	870	12	16.03	3,690	6	17.47	8,420	8	7.95	413
12	12.03	1,060		May 7		N	17.64	9,520	4	6.62	277
	April 26		N	14.81	2,300	6	17.70	10,000	8	6.12	232
N	12.80	1,280	6	14.05	1,790	12	18.05	13,600	12	5.76	199
12	13.45	1,490	12	13.11	1,370		May 16			May 27	
	April 27			May 8		8	18.53	19,400	4	5.55	183
N	13.98	1,750	6	12.09	1,070	10	18.60	20,200	8	5.45	175
12	14.37	1,980	N	10.90	838	N	18.63	20,600	6	5.36	167
	April 28		6	9.55	619	6	18.62	20,400	12	5.28	161
N	14.73	2,230	12	8.15	436	12	18.61	20,300		May 28	
2	14.79	2,280		May 9			May 17		N	5.00	141
4	14.91	2,380	6	6.94	306	6	18.64	20,700	12	4.55	112
12	15.39	2,790	N	5.95	214	10	18.65	20,800		May 29	
	April 29		6	5.21	155	2	18.64	20,700	N	4.20	91
N	15.99	3,620	12	4.66	118	6	18.60	20,200	12	3.87	74
12	16.47	4,540		May 10		12	18.51	19,100		May 30	
	April 30		6	4.34	98		May 18		N	3.64	63
N	16.90	5,750	N	4.16	88	N	18.31	16,700	12	3.45	55
6	17.28	7,300	2	4.60	114	6	18.24	15,900		May 31	
12	17.75	10,500	6	5.85	206	12	18.21	15,500	N	3.32	50
	May 1		12	7.00	312		May 19		12	3.19	44
N	18.77	22,200		May 11		N	18.14	14,700		June 1	
6	19.37	27,900	6	7.50	362	12	18.01	13,100	N	3.10	41
12	19.76	31,100	N	8.00	418		May 20		12	3.00	37
	May 2		2	8.11	431	N	17.83	11,300		June 2	
4	19.89	32,100	4	8.17	438	12	17.63	9,440	N	2.92	34
8	19.91	32,300	6	8.21	443		May 21		12	2.82	31
N	19.87	32,000	9	8.23	446	N	17.42	8,120		June 3	
4	19.75	31,000	12	9.08	553	12	17.23	7,050	N	2.75	29
8	19.59	29,700		May 12			May 22		12	2.66	26
12	19.38	27,900	2	10.15	710	N	17.04	6,260			
			6	12.00	1,050	12	16.84	5,540			

Lake Fork Sabine River near Quitman, Tex.

Location.--Lat 32°46', long 95°28', at bridge on State Highway 37, half a mile downstream from Dry Creek and 2.5 miles south of Quitman, Wood County. Datum of gage is 317.42 ft above mean sea level, datum of 1929.
Drainage area.--586 sq mi.
Gage-height record.--Graph based on twice-daily wire-weight gage readings Apr. 6, 7, 17, 18, Apr. 21 to June 6, and average of daily gage heights during rest of period.
Discharge records.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used May 10-17, May 26 to June 30.
Maxima.--April-June 1953: Discharge, 20,700 cfs 2 p.m. Apr. 30 (gage height, 21.05 ft, from graph based on gage readings).
1924-26, 1939 to March 1953: Discharge, 75,600 cfs Mar. 30, 1945 (gage height, 29.85 ft, from floodmark), from rating curve extended above 49,000 cfs.
Stage known since at least 1895, that of Mar. 30, 1945. Flood of July 1895 reached a stage of about 25.9 ft, from information by local resident.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	173	11,200	25	11	216	229	5.3	21	36	1,700	0.2
2	117	3,790	21	12	227	993	4.1	22	32	1,020	0.2
3	86	1,850	19	13	381	2,140	3.0	23	34	404	0.1
4	73	1,050	18	14	544	3,190	2.0	24	231	155	0
5	66	435	15	15	664	6,060	1.5	25	801	98	0
6	86	142	13	16	818	10,600	1.2	26	2,370	73	0
7	193	86	11	17	607	12,500	.8	27	3,900	58	0
8	190	67	9.5	18	189	12,200	.6	28	2,150	51	0
9	271	56	7.9	19	71	5,760	.4	29	4,440	45	0
10	223	71	6.6	20	44	2,770	.3	30	18,900	38	1.0
								31	-	31	-
Monthly mean discharge, in cubic feet per second									1,271	2,544	5.56
Runoff, in acre-feet									75,640	156,400	331
Runoff, in inches									2.42	5.00	0.01

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		12	20.42	18,000		May 11			May 23	
5	3.82	30		May 1		4	6.98	205	N	8.57	370
10	4.31	47	N	18.42	10,300	8	7.41	239	12	7.02	218
12	4.53	57	12	17.01	6,120	N	7.49	246		May 24	
	April 24			May 2		6	7.39	238	N	6.03	144
6	5.41	104	N	15.80	3,500	12	7.55	250	12	5.60	115
10	6.30	163	6	15.05	2,590		May 12			May 25	
2	7.30	240	12	14.81	2,370	2	9.30	446	N	5.29	96
8	8.78	399		May 3		6	11.22	804	12	5.07	84
12	9.43	499	8	14.63	2,220	4	12.60	1,130		May 26	
	April 25		10	14.54	2,150	12	13.85	1,620	N	4.81	72
N	11.08	818	2	13.96	1,780		May 13		12	4.63	63
12	12.18	1,070	6	13.02	1,340	6	14.57	1,990		May 27	
	April 26		8	12.87	1,280	4	15.00	2,310	N	4.52	58
4	12.33	1,110	12	12.77	1,240	12	15.18	2,470	12	4.42	53
8	12.72	1,230		May 4			May 14			May 28	
N	14.29	1,970	6	12.65	1,200	N	15.68	3,080	N	4.38	52
2	15.00	2,540	8	12.60	1,190	12	16.35	4,140	12	4.30	48
6	15.88	3,630	N	12.17	1,070		May 15			May 29	
12	16.35	4,570	12	10.80	760	N	16.93	5,570	N	4.21	45
	April 27			May 5		12	18.17	8,960	12	4.12	41
4	16.33	4,530	6	9.88	580		May 16			May 30	
10	16.17	4,180	N	8.80	402	6	18.69	10,800	N	4.04	38
4	15.85	3,580	6	7.73	276	N	18.92	11,700	12	3.97	35
12	15.35	2,920	12	6.82	202	6	18.53	10,300		May 31	
	April 28			May 6		12	18.51	10,200	N	3.83	31
8	14.90	2,450	6	6.22	157		May 17		12	3.72	28
2	14.28	1,970	N	5.92	136	N	19.08	12,400		June 1	
6	13.69	1,640	12	5.42	104	12	19.75	15,000	N	3.62	25
8	13.61	1,600		May 7			May 18		12	3.52	22
12	13.64	1,610	N	5.10	85	8	19.32	13,500		June 2	
	April 29		12	4.84	72	12	17.98	8,840	N	3.47	21
6	14.00	1,800		May 8			May 19		12	3.42	20
10	14.75	2,320	N	4.78	69	N	16.69	5,360		June 3	
N	15.32	2,880	12	4.57	59	12	15.78	3,470	N	3.38	19
2	16.00	3,840		May 9			May 20		12	3.35	18
6	17.28	6,810	N	4.52	57	N	15.37	2,940		June 4	
10	18.23	9,640	12	4.37	50	6	14.59	2,190	N	3.34	18
12	19.00	12,300		May 10		12	14.37	2,030	12	3.28	16
	April 30		6	4.32	46		May 21			June 5	
6	20.63	18,900	10	4.40	49	N	13.85	1,720	N	3.22	15
10	21.02	20,600	4	4.89	72	12	13.05	1,350	12	3.17	14
2	21.05	20,700	8	5.41	101		May 22			June 6	
6	20.97	20,400	12	6.19	152	N	12.01	1,030	N	3.12	13
						12	10.30	660	12	3.09	12

Big Sandy Creek near Big Sandy, Tex.

Location.--Lat 32°36', long 95°06', at bridge on State Highway 155, 0.8 mile upstream from St. Louis Southwestern Railroad bridge, 1.3 miles northeast of Big Sandy, Upshur County, and 7.1 miles upstream from mouth. Datum of gage is 278.38 ft above mean sea level, datum of 1929, supplementary adjustments of 1942.
Drainage area.--236 sq. mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used April 1 to May 14 and May 23 to June 30.
Maxima.--April-June 1953: Discharge, 7,270 cfs 4 p.m. May 17 (gage height, 18.60 ft). 1939 to March 1953: Discharge, 38,000 cfs Mar. 31, 1945 (gage height, 22.4 ft, from floodmark), from rating curve extended above 5,000 cfs on basis of records for nearby streams.
Stage known since at least 1905, that of Mar. 31, 1945. Stage known during period 1905 to Mar. 30, 1945, 20.4 ft in January 1938 (probably backwater from Sabine River), from information by observer.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	166	365	80	11	212	156	39	21	88	938	25
2	172	287	71	12	240	216	37	22	76	696	25
3	163	473	64	13	228	442	36	23	73	477	25
4	152	652	59	14	186	1,120	34	24	340	342	24
5	146	487	54	15	172	2,420	33	25	393	269	24
6	172	348	50	16	171	4,320	31	26	236	218	23
7	181	261	46	17	167	6,540	31	27	286	175	23
8	186	196	44	18	147	4,800	30	28	359	142	23
9	199	146	42	19	122	2,120	27	29	517	117	28
10	203	130	40	20	102	1,260	26	30	512	99	39
								31	-	89	-
Monthly mean discharge, in cubic feet per second									212	977	37.8
Runoff, in acre-feet									12,630	60,100	2,250
Runoff, in inches									1.00	4.78	0.18

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		12	11.06	674	6	11.24	731		May 26	
N	4.88	69		May 4		10	12.14	1,010	N	7.73	218
9	4.89	69	4	11.12	692	6	13.48	1,500	12	7.33	195
12	5.90	118	8	11.10	686	12	14.00	1,710		May 27	
	April 24		6	10.90	626		May 15		N	6.97	175
3	6.10	128	12	10.73	575	2	14.12	1,760	12	6.62	156
5	7.91	229		May 5		10	14.59	2,000		May 28	
7	8.80	281	N	10.35	482	6	15.82	2,930	N	6.34	141
9a	9.28	321	12	9.92	408	12	16.55	3,680	12	6.09	128
9p	10.36	484		May 6			May 16			May 29	
12	10.49	515	N	9.48	344	8	17.01	4,210	N	5.86	118
	April 25		12	9.00	295	N	17.13	4,380	12	5.63	106
2	10.50	518		May 7		2	17.19	4,470		May 30	
6	10.36	484	N	8.47	261	8	17.24	4,540	N	5.46	98
N	9.82	392	12	7.89	228	12	17.52	4,970	12	5.35	93
6	9.10	303		May 8			May 17			May 31	
12	8.41	258	N	7.33	195	6	18.10	6,000	N	5.27	90
	April 26		12	6.82	167	N	18.51	7,020	12	5.15	84
6	7.95	231		May 9		4	18.60	7,270		June 1	
N	7.82	224	N	6.42	145	8	18.55	7,130	N	5.06	80
6	7.99	234	12	6.10	129	12	18.38	6,670	12	4.95	74
12	8.32	253		May 10			May 18			June 2	
	April 27		N	5.79	114	6	17.93	5,670	N	4.85	71
N	8.90	288	2	6.05	126	N	17.38	4,750	12	4.77	67
12	9.21	313	6	6.32	140	12	15.97	3,070		June 3	
	April 28		12	6.67	159		May 19		N	4.69	65
N	9.58	357		May 11		N	14.49	1,950	12	4.60	61
9	9.81	391	6	6.86	169	12	13.44	1,490		June 4	
12	10.07	432	N	6.68	159		May 20		N	4.54	59
	April 29		10	6.27	137	N	12.78	1,240	12	4.46	56
N	10.53	525	12	6.52	150	12	12.32	1,080		June 5	
12	10.77	585		May 12			May 21		N	4.39	54
	April 30		2	6.70	160	N	11.83	929	12	4.34	52
N	10.50	518	8	7.00	176	12	11.44	812		June 6	
12	10.04	427	N	7.34	195		May 22		N	4.26	50
	May 1		4	7.96	232	N	11.06	698	12	4.19	48
N	9.61	361	10	9.18	310	12	10.65	578		June 7	
12	9.18	310	12	9.37	330		May 23		N	4.13	46
	May 2			May 13		N	10.27	466	12	4.09	45
N	8.79	281	6	9.73	379	12	9.85	397		June 8	
7	8.66	273	N	10.18	450		May 24		N	4.03	43
12	8.84	284	4	10.40	492	N	9.44	338	12	4.02	43
	May 3		8	10.48	512	12	9.00	295		June 9	
6	9.49	345	12	10.59	540		May 25		N	3.99	42
N	10.28	468		May 14		N	8.58	269	12	3.95	41
6	10.82	599	2	10.68	562	12	8.14	242			

Sabine River near Gladewater, Tex.

Location.--Lat 32°32', long 94°57', at bridge on U. S. Highway 271, half a mile downstream from Glade Creek, 1 mile southwest of Gladewater, Gregg County, and at mile 398. Datum of gage is 243.85 ft above mean sea level (Texas Reclamation Department benchmark based on Geological Survey datum).
Drainage area.--2,846 sq mi.
Gage-height record.--Water-stage recorder graph except period May 31 to June 10 for which a graph was drawn on basis of once-daily wire-weight gage readings furnished by United States Weather Bureau.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Rate of change in stage used as a factor Apr. 1, 2, 4, 5, 12, 14-18, 20-22, 24, 25, 28-30, May 2 to June 3.
Maxima.--April-June 1953: Discharge, 29,300 cfs 6 a.m. May 20; gage height, 36.72 ft 12 noon May 20.
1932 to March 1953: Discharge, 138,000 cfs Apr. 2, 1945 (gage height, 44.16 ft from floodmark), from rating curve extended above 91,000 cfs.
Stage known since at least 1914, that of Apr. 2, 1945. Flood of May 1914 reached a stage of about 41.7 ft (discharge, 71,100 cfs), from information by local resident.
Remarks.--Small diversions above station for oil field operations and municipal supply.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,280	4,300	1,700	11	962	9,080	166	21	1,060	27,300	72
2	1,440	4,890	910	12	1,690	7,620	153	22	646	23,800	66
3	1,450	6,500	456	13	1,830	6,690	144	23	420	19,600	62
4	1,170	13,200	365	14	1,540	6,530	132	24	1,220	16,400	59
5	913	22,000	311	15	1,260	7,310	121	25	2,410	13,600	56
6	920	21,200	275	16	1,270	8,760	112	26	2,310	11,500	55
7	968	18,200	245	17	1,450	14,000	103	27	2,230	9,700	55
8	977	15,200	216	18	1,640	23,400	95	28	2,480	7,900	56
9	924	12,700	194	19	1,710	28,100	87	29	4,210	6,090	136
10	878	10,900	186	20	1,560	29,100	78	30	4,350	4,170	156
								31	-	2,780	-
Monthly mean discharge, in cubic feet per second									1,572	13,310	227
Runoff, in acre-feet									93,560	818,200	13,530
Runoff, in inches									0.62	5.39	0.09

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24			May 4		4	27.95	6,450		May 26	
4	6.85	422	6	29.23	9,350	12	27.81	6,370	N	32.52	11,500
5	7.16	547	N	31.48	13,000		May 15		12	32.10	10,600
10	8.96	1,010	6	33.30	16,500	7	27.79	6,500		May 27	
4	11.25	1,600	9	33.91	18,700	9	28.07	7,570	N	31.64	9,700
12	13.23	2,230	12	34.39	19,700	N	28.75	8,180	12	31.12	8,800
	April 25			May 5		4	29.04	7,660		May 28	
4	14.55	2,520	4	34.90	21,700	8	29.17	7,470	N	30.41	7,910
8	15.05	2,470	8	35.22	21,900	12	29.40	7,940	12	29.50	6,960
N	15.29	2,420	N	35.41	22,300		May 16			May 29	
4	15.37	2,380	4	35.53	22,700	N	30.13	8,620	N	28.36	6,140
12	15.34	2,370	8	35.60	22,500	6	30.54	9,070	12	26.94	5,120
	April 26		12	35.62	22,400	12	31.10	10,200		May 30	
6	15.25	2,340		May 6			May 17		N	25.25	4,130
N	15.13	2,310	4	35.60	21,400	N	32.52	13,400	12	23.20	3,001
6	14.98	2,280	8	35.56	21,600	12	34.23	18,800		May 31	
12	14.88	2,250	N	35.49	21,400		May 18		N	21.01	2,810
	April 27		12	35.18	19,700	6	34.97	21,800	12	18.19	2,220
8	14.77	2,220		May 7		10	35.34	23,100		June 1	
4	14.74	2,220	N	34.82	18,300	2	35.63	24,100	N	14.99	1,620
12	14.79	2,230	12	34.36	16,700	6	35.88	25,300	12	12.18	1,340
	April 28			May 8		10	36.08	26,400		June 2	
8	14.90	2,260	N	33.94	15,200	12	36.15	26,500	N	9.34	860
4	15.10	2,310	12	33.50	13,900		May 19		12	7.77	579
5	15.28	2,700		May 9		6	36.35	27,600		June 3	
6	15.61	3,100	N	33.03	12,700	N	36.50	28,400	6	7.28	493
10	15.97	2,760	12	32.56	11,500	6	36.59	28,600	N	6.96	437
12	15.53	3,360		May 10		12	36.65	29,000	6	6.79	410
	April 29		N	32.08	10,600		May 20		12	6.69	390
N	19.19	4,510	4	32.09	11,000	6	36.70	29,300		June 4	
12	20.48	4,390	12	31.85	10,200	N	36.72	29,200	N	6.58	368
	April 30			May 11		6	36.69	29,000	12	6.41	334
N	21.15	4,340	N	31.26	8,990	12	36.65	28,700		June 5	
12	21.46	4,320	10	30.66	8,130		May 21		N	6.29	310
	May 1		12	30.65	8,680	N	36.49	27,400	12	6.19	290
N	21.76	4,250		May 12		12	36.26	25,700		June 6	
12	22.11	4,360	N	29.81	7,330		May 22		N	6.11	276
	May 2		4	29.65	7,150	N	35.97	23,900	12	6.02	259
6	22.32	4,740	8	29.51	7,350	12	35.60	21,600		June 7	
N	22.63	4,890	12	29.37	7,060		May 23		N	5.94	245
6	22.97	5,060		May 13		N	35.18	19,500	12	5.86	231
12	23.51	5,410	N	28.70	6,670	12	34.74	17,900		June 8	
	May 3		12	28.13	6,350		May 24		N	5.78	216
6	24.13	5,760		May 14		N	34.31	16,400	12	5.70	202
N	24.93	6,400	2	28.06	6,510	12	33.85	14,900		June 9	
6	25.97	7,200	4	28.12	6,670		May 25		N	5.65	193
12	27.43	7,900	N	28.06	6,640	N	33.39	13,600	12	5.63	189
						12	32.95	12,500			

Sabine River near Tatum, Tex.

Location.--Lat 32°22', long 94°28', at bridge on State Highway 43, 5 miles upstream from Potter Creek, 5.2 miles northeast of Tatum, Rusk County, 7 miles downstream from Cherokee Bayou, and at mile 339. Datum of gage is 204.18 ft above mean sea level, datum of 1929 (levels by Corps of Engineers).
Drainage area.--3,586 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used Apr. 1 to May 22, May 25 to June 30.
Maxima.--April-June 1953: Discharge, 28,500 cfs 2 p.m. May 23 (gage height, 27.08 ft).
1939 to March 1953: Discharge, 123,000 cfs Apr. 4, 1945 (gage height, 33.80 ft, from graph based on gage readings), from rating curve based on extension of ratings for main channels above 40,000 cfs and measured flow over road at gage height 31.5 ft.
Stage known since at least 1884, that of Apr. 4, 1945. Flood of May 1884 reached a stage of 32 ft, from information by local residents.
Remarks.--Several small diversions above station for oil field operations and municipal supply.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,580	6,370	11,700	11	1,170	13,400	459	21	1,730	19,100	151
2	1,540	6,060	10,300	12	1,620	15,100	406	22	1,500	25,600	140
3	1,600	5,780	7,920	13	2,350	17,100	367	23	1,130	28,100	131
4	1,670	5,460	4,720	14	2,420	18,000	333	24	1,250	26,900	119
5	1,580	5,420	2,120	15	2,180	18,600	294	25	2,330	24,200	119
6	1,400	5,720	1,150	16	1,790	19,900	269	26	3,140	21,500	122
7	1,420	6,680	859	17	1,540	19,700	257	27	3,140	18,800	118
8	1,410	8,420	706	18	1,510	17,300	212	28	2,920	16,400	114
9	1,340	11,000	598	19	1,620	15,400	184	29	4,150	14,700	121
10	1,260	12,500	520	20	1,720	15,000	165	30	5,820	13,600	173
								31	-	12,700	-
Monthly mean discharge, in cubic feet per second									1,994	14,980	1,495
Runoff, in acre-feet									118,700	921,300	88,950
Runoff, in inches									0.62	4.82	0.47

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		12	16.35	6,020	12	25.44	15,800		June 4	
4	6.27	1,000		May 7			May 21		N	14.56	4,670
6	6.36	1,030	N	17.26	6,650	N	25.99	18,800	12	11.59	3,100
N	6.81	1,160	12	18.35	7,400	12	26.51	23,000		June 5	
6	7.57	1,430		May 8			May 22		N	9.25	1,980
12	8.35	1,730	N	19.61	8,370	N	26.83	25,900	12	7.81	1,400
	April 25		12	20.90	9,560	12	27.00	27,600		June 6	
N	9.78	2,350		May 9			May 23		N	7.00	1,120
12	10.90	2,880	N	21.96	10,600	N	27.06	28,300	12	6.47	961
	April 26		12	22.66	11,400	2	27.08	28,500		June 7	
N	11.51	3,190		May 10		12	27.03	27,900	N	6.12	853
8	11.65	3,260	N	23.23	12,000		May 24		12	5.82	769
12	11.63	3,250	12	23.85	12,700	N	26.94	27,000		June 8	
	April 27			May 11		2	26.81	25,700	N	5.59	704
N	11.44	3,160	N	24.35	13,400		May 25		12	5.37	645
12	11.15	3,010	12	24.84	14,100	N	26.65	24,200		June 9	
	April 28			May 12		12	26.48	22,800	N	5.18	596
N	10.86	2,860	N	25.18	14,900		May 26		12	5.03	557
6	10.85	2,860	12	25.58	16,400	N	26.33	21,500		June 10	
12	11.16	3,020		May 13		12	26.17	20,200	N	4.89	519
	April 29		N	25.75	17,200		May 27		12	4.76	486
N	13.42	4,180	12	25.83	17,700	N	25.99	18,800		June 11	
12	15.19	5,220		May 14		12	25.80	17,500	N	4.65	459
	April 30		N	25.89	18,100		May 28		12	4.54	432
N	16.15	5,880	12	25.91	18,200	N	25.58	16,300		June 12	
12	16.73	6,280		May 15		12	25.35	15,400	N	4.43	404
	May 1		N	25.96	18,600		May 29		12	4.34	382
N	16.91	6,400	12	26.01	19,000	N	25.11	14,600		June 13	
6	16.92	6,410		May 16		12	24.85	14,100	N	4.28	368
12	16.89	6,390	N	26.13	19,900		May 30		12	4.21	351
	May 2		4	26.13	19,900	N	24.57	13,600		June 14	
N	16.20	5,910	6	26.23	20,700	12	24.27	13,200	N	4.14	333
12	16.37	6,030	12	26.21	20,500		May 31		12	4.06	315
	May 3			May 17		N	23.91	12,700		June 15	
N	16.01	5,780	N	26.11	19,800	12	23.53	12,300	N	3.96	292
12	15.67	5,540	12	25.96	18,600		June 1		12	3.90	279
	May 4			May 18		N	23.08	11,700		June 16	
N	15.55	5,460	N	25.75	17,300	12	22.52	11,100	N	3.83	264
12	15.45	5,390	12	25.53	16,100		June 2		12	3.86	270
	May 5			May 19		N	21.82	10,300		June 17	
N	15.46	5,400	N	25.31	15,300	12	20.79	9,310	N	3.83	264
12	15.60	5,490	12	25.16	14,800		June 3		12	3.67	231
	May 6			May 20		N	19.27	7,960		June 18	
N	15.86	5,680	N	25.16	14,800	12	17.16	6,430	N	3.56	210
									12	3.48	195

Sabine River at Logansport, La.

Location.--Lat 31°58', long 94°00', at bridge on U. S. Highway 84, 200 ft upstream from Texas & New Orleans Railroad bridge at Logansport, DeSoto Parish, 3 miles upstream from Bayou Castor, and at mile 267. Datum of gage is 147.72 ft above mean sea level, datum of 1929.

Drainage area.--4,858 sq mi.

Gage-height record.--Graph based on twice-daily wire-weight gage readings except Apr. 5, 12, 19, 26, May 3, June 7, 14, 21, when gage was not read, and Apr. 28 to May 2, when stage was affected by backwater from Bayou Castor.

Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used Apr. 1-4, 6-11, 13-18, 20-25, 27, May 9-11, June 11-13, 15-20, 22-30. Discharge estimated for days of no gage-height record.

Maxima.--April-June 1953: Discharge, 40,900 cfs 10 p.m. May 19 (gage height, 35.98 ft). 1903 to March 1953: Discharge, 92,000 cfs Apr. 8, 1945 (gage height, 44.07 ft, from floodmark).

Stage known prior to 1945, 39.4 ft in May 1884, present datum.

Remarks.--Small diversions above station. Gage-height record collected in cooperation with U. S. Weather Bureau.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	2,510	9,840	20,900	11	1,730	11,100	1,330	21	1,800	37,100	304
2	2,370	11,000	19,700	12	1,600	13,700	906	22	1,850	33,800	272
3	2,120	12,500	18,500	13	1,740	16,400	750	23	1,810	29,900	244
4	2,030	14,800	17,400	14	2,530	17,200	648	24	1,600	26,600	226
5	2,030	16,800	16,200	15	3,010	20,000	554	25	1,750	24,600	216
6	2,080	16,100	14,800	16	2,930	27,400	512	26	3,090	23,800	198
7	2,050	15,000	12,700	17	2,530	36,400	458	27	4,120	24,300	186
8	2,030	13,600	9,800	18	2,080	39,400	413	28	4,770	24,800	178
9	2,040	12,600	5,580	19	1,790	40,400	377	29	6,690	24,600	192
10	1,890	11,500	2,600	20	1,730	40,000	336	30	8,470	23,800	265
								31	-	22,500	-
Monthly mean discharge, in cubic feet per second									2,626	22,310	4,892
Runoff, in thousand acre-feet									156.2	1,372	291.1
Runoff, in inches									0.60	5.29	1.12

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 25		12	27.90	16,800	8	34.00	31,800	12	31.77	24,400
6	5.42	1,490		May 6		12	34.40	33,400		May 30	
8	5.50	1,510	N	27.40	16,100		May 17		N	31.58	23,800
N	5.87	1,660	12	27.00	15,500	N	35.14	36,700	12	31.35	23,200
12	7.40	2,300		May 7		12	35.53	38,600		May 31	
	April 26		N	26.65	15,000		May 18		N	31.10	22,500
12	10.57	3,710	12	26.20	14,500	N	35.72	39,600	12	30.80	21,700
	April 27			May 8		12	35.80	40,000		June 1	
8	11.30	4,040	N	25.50	13,600		May 19		N	30.45	20,900
N	11.56	4,160	12	24.95	13,000	N	35.88	40,400	12	30.12	20,200
4	11.78	4,260		May 9		10	35.98	40,900		June 2	
12	12.07	4,390	N	24.48	12,600	12	35.96	40,800	N	29.80	19,700
	April 28		12	23.90	12,000		May 20		12	29.46	19,100
N	12.55	4,620		May 10		N	35.89	40,400		June 3	
6	13.30	5,000	N	23.36	11,500	12	35.52	38,600	N	29.08	18,500
12	15.40	5,520	12	22.70	10,900		May 21		12	28.70	18,000
	April 29			May 11		N	35.22	37,100		June 4	
N	19.24	6,650	6	22.56	10,800	12	34.88	35,600	N	28.30	17,400
12	21.40	7,940	N	22.56	10,800		May 22		12	27.90	16,800
	April 30		6	23.12	11,200	N	34.50	33,800		June 5	
4	22.72	7,940	12	24.05	12,100	12	34.00	31,800	N	27.48	16,200
8	23.50	8,150		May 12			May 23		12	27.00	15,500
N	23.80	8,430	N	25.50	13,600	N	33.45	29,800		June 6	
6	24.00	8,860	12	27.00	15,500	12	32.98	28,100	N	26.50	14,800
12	24.00	9,260		May 13			May 24		12	25.80	14,000
	May 1		6	27.52	16,200	N	32.50	26,600		June 7	
N	23.96	9,860	N	27.80	16,600	12	32.04	25,100	12	23.40	11,400
12	24.00	10,500	6	27.92	16,800		May 25			June 8	
	May 2		12	28.00	16,900	N	31.85	24,600	8	22.40	10,500
N	24.13	10,900		May 14		12	31.60	23,900	4	21.00	9,300
12	24.44	11,700	6	28.02	16,900		May 26		12	19.04	7,830
	May 3		N	28.06	17,000	8	31.56	23,800		June 9	
12	25.40	13,400	6	28.40	17,500	4	31.58	23,800	8	16.60	6,260
	May 4		12	28.80	18,100	12	31.63	23,800	4	13.80	4,750
N	26.50	14,800		May 15			May 27		12	11.45	3,660
12	27.50	16,200	6	29.28	18,800	N	31.80	24,400		June 10	
	May 5		N	29.85	19,800	12	31.90	24,700	8	9.50	2,840
N	28.10	17,000	6	30.47	20,900		May 28		4	8.00	2,260
4	28.10	17,000	12	31.12	22,500	N	31.95	24,900	12	6.60	1,760
				May 16		6	31.95	24,900		June 11	
			8	32.08	25,300	12	31.94	24,800	8	5.62	1,400
			2	32.81	27,600		May 29		4	4.98	1,190
						N	31.88	24,700	12	4.48	1,030

Tenaha Creek near Shelbyville, Tex.

Location.--Lat 31°46', long 94°05', at bridge on U. S. Highway 96, 1 mile northwest of Shelbyville, Shelby County, 4.2 miles upstream from Gulf, Colorado & Santa Fe Railway bridge, and 6.5 miles upstream from Bell Creek. Datum of gage not determined.
Drainage area.--87.0 sq mi.
Gage-height record.--Graph drawn on basis of twice-daily wire-weight gage readings April 23 to June 10, and average of daily gage heights during rest of period.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used June 11-28.
Maxima.--April-June 1953: Discharge, 13,900 cfs 12 noon Apr. 29 (gage height, 13.63 ft).
1952 to March 1953: Discharge, 15,200 cfs Mar. 11, 1953 (gage height, 13.85 ft, from floodmark).
Remarks.--Diversion above station for municipal supply.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	84	800	44	11	29	77	20	21	17	263	8.8
2	64	265	39	12	28	5,180	17	22	17	137	8.2
3	55	88	36	13	32	3,660	15	23	17	105	7.2
4	48	3,620	33	14	27	1,790	16	24	33	88	6.8
5	44	3,060	31	15	26	866	14	25	82	77	7.0
6	49	998	28	16	25	956	12	26	42	68	6.8
7	50	371	27	17	22	5,230	12	27	25	62	7.8
8	42	144	25	18	21	2,750	11	28	126	58	10
9	38	97	23	19	19	1,140	9.9	29	8,700	53	39
10	34	80	22	20	17	591	9.3	30	2,600	48	38
								31	-	46	-
Monthly mean discharge, in cubic feet per second									414	1,057	19.5
Runoff, in acre-feet									24,620	64,990	1,160
Runoff, in inches									5.30	14.00	0.25

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23			May 4		10	10.60	3,040		May 27	
N	1.74	17	4	4.70	178	12	10.45	2,770	N	2.73	62
12	1.74	17	8	6.80	342		May 14		12	2.70	60
	April 24		N	10.50	2,860	N	9.75	1,620		May 28	
N	1.90	23	4	12.38	7,970	12	9.45	1,160	N	2.66	58
12	2.85	68	6	12.42	8,110		May 15		12	2.61	56
	April 25		8	12.25	7,500	N	9.10	805		May 29	
6	3.25	88	12	11.59	5,250	12	8.87	693	N	2.56	53
N	3.35	94		May 5			May 16		12	2.52	51
6	3.10	80	N	10.45	2,770	N	8.72	640		May 30	
12	2.80	65	12	9.65	1,460	10	9.70	1,540	N	2.46	48
	April 26			May 6		12	10.30	2,500	12	2.43	46
N	2.18	35	N	9.30	975		May 17			May 31	
12	2.15	34	12	8.50	582	4	11.45	4,870	N	2.41	46
	April 27			May 7		8	12.00	6,600	12	2.38	44
N	1.95	25	N	6.90	352	N	11.90	6,240		June 1	
12	1.70	16	12	4.99	198	12	11.15	4,130	N	2.38	44
	April 28			May 8			May 18		12	2.34	42
6	1.65	14	6	4.25	147	N	10.35	2,590		June 2	
N	1.90	23	N	4.15	141	12	9.80	1,700	N	2.26	39
4	3.10	80	12	3.75	117		May 19		12	2.22	37
8	5.55	238		May 9		N	9.35	1,030		June 3	
12	9.00	750	N	3.35	94	12	9.10	805	N	2.19	36
	April 29		12	3.15	83		May 20		12	2.16	34
4	11.90	6,240		May 10		N	8.50	582		June 4	
8	13.10	11,000	N	3.10	80	12	7.30	396	N	2.14	33
N	13.63	13,900	12	3.05	78		May 21		12	2.10	32
6	12.65	8,980		May 11		N	5.65	244		June 5	
12	11.50	5,000	N	2.95	72	12	4.55	168	N	2.08	31
	April 30		8	2.95	72		May 22		12	2.05	29
N	10.05	2,100	12	3.70	114	N	4.00	132		June 6	
12	9.50	1,220		May 12		12	3.75	117	N	2.03	28
	May 1		2	5.70	248		May 23		12	2.01	28
N	9.00	750	4	7.45	414	N	3.54	104		June 7	
12	7.95	480	8	9.95	1,940	12	3.38	95	N	1.99	27
	May 2		N	11.90	6,240		May 24		12	1.96	26
8	6.45	310	4	12.90	10,000	N	3.25	88		June 8	
4	4.79	184	6	13.00	10,500	12	3.14	82	N	1.94	25
12	3.85	123	8	12.60	8,780		May 25		12	1.92	24
	May 3		12	11.90	6,240	N	3.04	77		June 9	
N	3.25	88		May 13		12	2.95	72	N	1.90	23
6	2.18	35	8	10.75	3,310		May 26		12	1.88	22
12	3.85	123	N	10.65	3,130	N	2.87	68		June 10	
						12	2.78	64	N	1.87	22
									12	1.86	22

Bayou San Patricio near Noble, La.

Location.--Lat 31°43'15", long 93°42'25", in lot 38, T. 9 N., R. 13 W., on U. S. Highway 171, 1.6 miles downstream from Kansas City Southern Railroad bridge and 2.5 miles northwest of Noble. Datum of gage is 169.73 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--154 sq mi.
Gage-height record.--Graph based on twice-daily wire-weight gage readings and floodmarks on crest-stage indicator.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 9,330 cfs 4 a.m. Apr. 30 (gage height, 14.75 ft, from floodmark on crest-stage indicator).
1951 to March 1953: Discharge, 6,500 cfs Mar. 11, 1953 (gage height, 13.66 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	71	2,980	13	11	20	86	3.0	21	6.2	1,010	1.1
2	61	1,360	11	12	17	388	2.8	22	5.6	697	1.0
3	48	920	9.0	13	16	844	2.4	23	5.2	345	.9
4	37	2,050	7.5	14	13	1,180	2.2	24	8.4	109	.8
5	31	5,120	6.6	15	11	1,260	1.9	25	21	66	.8
6	29	3,320	5.7	16	10	1,360	1.8	26	34	47	.7
7	33	1,440	5.0	17	9.9	5,840	1.4	27	38	35	.7
8	32	946	4.4	18	9.0	7,060	1.4	28	31	28	.7
9	34	601	4.0	19	7.7	2,960	1.3	29	6,060	23	11
10	27	222	3.6	20	6.8	1,510	1.1	30	7,780	19	8.5
								31	-	16	-
Monthly mean discharge, in cubic feet per second									484	1,414	3.84
Runoff, in acre-feet									28,790	86,960	229
Runoff, in inches									3.50	10.59	0.03

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		12	14.72	9,240		May 7				May 17
12	3.23	5.1		April 30		N	10.79	1,370	2	10.95	1,440
6	3.23	5.1	4	14.75	9,330	12	10.53	1,140	4	11.40	2,090
N	3.29	6.0	8	14.63	8,970		May 8		6	11.85	2,810
6	3.54	12	N	14.33	8,100	N	10.28	936	8	12.37	3,760
12	3.68	16	4	14.02	7,250	12	10.04	774	10	13.00	5,000
	April 25		8	13.47	5,990		May 9		N	13.68	6,460
N	3.86	21	12	12.92	4,840	6	9.91	700	2	14.12	7,520
12	4.03	27		May 1		N	9.72	609	4	14.45	8,440
	April 26		6	12.32	3,670	6	9.43	509	6	14.64	9,000
N	4.23	35	N	11.85	2,810	12	8.82	400	8	14.68	9,120
12	4.28	38	6	11.44	2,150		May 10		10	14.70	9,180
	April 27		12	11.14	1,750	6	8.08	304	12	14.69	9,150
N	4.37	42		May 2		N	7.00	201		May 18	
12	4.10	30	N	10.73	1,320	6	5.97	132	6	14.47	8,500
	April 28		12	10.45	1,070	12	5.52	105	N	13.92	7,010
2	4.04	28		May 3			May 11		6	13.38	5,800
4	4.00	26	4	10.38	1,010	6	5.22	88	12	12.84	4,680
6	3.97	25	8	10.30	950	N	5.06	79		May 19	
8	3.93	24	N	10.22	894	6	4.94	72	6	12.24	3,520
10	3.91	23	4	10.14	838	12	5.55	107	N	11.78	2,690
N	3.87	22	8	10.09	804		May 12		6	11.54	2,300
2	3.84	21	12	10.34	982	4	7.39	232	12	11.29	1,940
4	3.83	20		May 4		8	8.84	402		May 20	
6	3.83	20	6	10.87	1,450	N	9.05	432	N	10.87	1,450
8	3.84	21	N	11.29	1,940	4	9.15	448	12	10.60	1,200
10	3.93	24	6	11.72	2,580	8	9.34	485		May 21	
12	7.00	201	12	12.23	3,500	12	9.57	551	N	10.36	998
	April 29			May 5			May 13		12	10.16	852
2	9.00	425	4	12.60	4,200	6	9.97	734		May 22	
4	11.50	2,240	8	13.07	5,150	N	10.18	866	N	9.92	706
6	13.00	5,000	N	13.27	5,570	6	10.30	950	12	9.48	524
8	13.28	5,590	4	13.35	5,740	12	10.49	1,100		May 23	
10	13.63	6,350	8	13.33	5,690		May 14		6	9.16	449
N	13.92	7,010	12	13.10	5,210	N	10.63	1,230	N	8.38	340
2	14.12	7,520		May 6		12	10.56	1,160	6	7.50	242
4	14.25	7,880	6	12.58	4,160		May 15		12	6.64	176
6	14.40	8,300	N	12.07	3,210	N	10.67	1,260		May 24	
8	14.54	8,700	6	11.59	2,380	12	10.79	1,370	6	5.76	120
10	14.64	9,000	12	11.25	1,880		May 16		N	5.47	102
						N	10.82	1,400	6	5.22	88
						12	10.68	1,270	12	5.04	78

Bayou San Miguel near Zwolle, La.

Location.--Lat 31°39'10", long 93°39'10", in NE¼NW¼ sec. 25, T. 8 N., R. 13 W., on U. S. Highway 171, 1½ miles northwest of Zwolle and 3½ miles upstream from Bayou Scie.
Drainage area.--113 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 12,000 cfs 10 p.m. May 17 (gage height, 14.40 ft).
1948 to March 1953: Discharge, 15,000 cfs June 3, 1950 (gage height, 15.75 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	84	1,880	7.8	11	13	36	0.8	21	3.3	700	0.1
2	103	898	6.6	12	11	253	.7	22	2.9	228	0.1
3	76	330	5.5	13	11	637	.5	23	2.4	87	0
4	40	542	4.4	14	9.3	1,140	.4	24	5.0	47	0
5	28	3,230	3.4	15	8.5	1,340	.4	25	10	32	0
6	22	1,720	2.8	16	7.8	966	.3	26	44	24	0
7	20	884	2.2	17	7.0	6,200	.2	27	34	19	0
8	19	340	1.7	18	6.0	9,110	.1	28	31	16	0
9	18	104	1.4	19	4.8	2,710	.1	29	3,680	13	1.0
10	16	50	1.1	20	3.9	1,230	.1	30	7,610	11	1.0
								31	-	9.3	-
Monthly mean discharge, in cubic feet per second									398	1,122	1.42
Runoff, in acre-feet									23,660	69,000	85
Runoff, in inches									3.93	11.45	0.01

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		8	13.41	8,910		May 6		N	10.33	940
12	2.36	2.3	10	13.96	10,600	8	10.83	1,850	4	10.28	894
3	2.36	2.3	12	14.26	11,500	4	10.64	1,430	8	10.25	870
6	2.36	2.3		April 30		12	10.48	1,130	12	10.35	960
9	2.36	2.3	2	14.31	11,700		May 7			May 17	
N	2.51	3.9	4	14.18	11,300	N	10.27	886	2	10.38	990
3	2.66	5.7	6	13.96	10,600	12	9.88	635	4	10.45	1,080
6	2.89	8.8	8	13.68	9,740		May 8		6	10.55	1,260
9	2.91	9.0	10	13.36	8,760	4	9.64	526	8	10.90	2,010
12	2.87	8.5	N	12.98	7,620	8	9.32	407	10	11.63	3,810
	April 25		2	12.62	6,560	N	8.96	300	N	12.49	6,180
3	2.86	8.4	4	12.29	5,600	4	8.61	226	2	13.21	8,310
6	2.90	8.9	6	11.98	4,740	8	8.27	185	4	13.69	9,770
9	2.98	10	8	11.71	4,010	12	7.91	155	6	14.05	10,900
N	3.03	11	10	11.50	3,460		May 9		8	14.29	11,600
3	3.05	11	12	11.32	3,010	4	7.58	138	10	14.40	12,000
6	3.07	11		May 1		8	7.18	121	12	14.38	11,900
9	3.07	11	3	11.15	2,600	N	6.70	104		May 18	
12	3.05	11	6	11.00	2,240	4	6.08	84	3	14.24	11,500
	April 26		9	10.90	2,010	8	5.58	69	6	14.11	11,100
2	3.05	11	N	10.79	1,760	12	5.28	60	9	13.95	10,600
4	3.19	13	3	10.72	1,600		May 10		N	13.68	9,740
6	3.88	25	6	10.64	1,430	8	4.89	50	3	13.29	8,550
8	4.60	42	9	10.58	1,310	4	4.64	43	6	12.84	7,200
10	4.99	53	12	10.51	1,180	12	4.93	51	9	12.38	5,860
N	5.20	58		May 2			May 11		12	11.98	4,740
2	5.29	61	6	10.39	1,000	N	4.18	32		May 19	
4	5.30	61	N	10.28	894	12	4.01	28	6	11.41	3,240
6	5.25	60	6	10.14	788		May 12		N	11.10	2,480
8	5.17	57	12	9.89	640	2	4.64	43	6	10.87	1,940
10	5.08	55		May 3		4	5.54	68	12	10.74	1,650
12	4.96	52	4	9.63	522	6	6.78	107		May 20	
	April 27		8	9.28	394	8	8.05	164	N	10.51	1,180
6	4.60	42	N	8.90	284	10	8.58	221	12	10.31	920
N	4.23	33	4	8.53	214	N	8.91	287		May 21	
6	3.89	25	8	8.15	173	2	9.03	318	6	10.19	823
12	3.64	21	12	7.80	149	4	9.13	347	N	10.04	723
	April 28			May 4		6	9.20	368	6	9.78	587
2	3.58	20	3	7.59	138	8	9.36	420	12	9.35	417
4	3.52	19	6	8.71	243	10	9.44	448		May 22	
6	3.46	18	9	9.50	470	12	9.50	470	4	9.06	327
8	3.41	17	N	9.78	587		May 13		8	8.75	251
10	3.36	16	3	9.94	667	6	9.71	556	N	8.43	202
N	3.32	15	6	10.10	760	N	9.91	650	4	8.09	167
2	3.28	15	9	10.25	870	6	10.04	723	8	7.79	148
4	3.24	14	12	10.43	1,060	12	10.11	767	12	7.45	132
6	3.75	23		May 5			May 14			May 23	
8	4.79	47	2	10.68	1,520	8	10.21	838	4	7.04	116
10	6.02	82	4	11.10	2,480	4	10.63	1,410	8	6.49	97
12	8.02	162	6	11.51	3,490	12	10.72	1,600	N	5.96	81
	April 29		8	11.75	4,120		May 15		4	5.62	70
2	9.35	417	10	11.82	4,250	4	10.68	1,520	8	5.36	63
4	9.67	538	N	11.78	4,200	8	10.63	1,410	12	5.17	58
6	10.03	717	2	11.69	3,850	N	10.57	1,290		May 24	
8	10.26	878	4	11.59	3,690	4	10.51	1,180	8	4.89	50
10	10.52	1,200	6	11.46	3,360	8	10.55	1,260	4	4.63	43
N	10.83	1,850	8	11.34	3,060	12	10.49	1,140	12	4.41	37
2	11.21	2,740	10	11.24	2,820		May 16			May 25	
4	11.73	4,060	12	11.15	2,600	4	10.43	1,060	8a	4.25	33
6	12.56	6,380				8	10.37	980	12	3.97	27

Sabine River near Milam, Tex.

Location.--Lat 31°28', long 93°45', 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. Datum of gage is 97.96 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Drainage area.--6,543 sq mi.

Gage-height record.--Water-stage recorder graph.

Discharge record.--Stage-discharge relation by current-meter measurements. Shifting-control method used June 18-30.

Maxima.--April-June 1953: Discharge, 69,100 cfs 11 a.m. to 2 p.m. May 20 (gage height, 47.01 ft).

1923-25, 1939 to March 1953: Discharge, 83,400 cfs Apr. 12, 1945 (gage height, 48.87 ft).

Stage known since at least 1884, that of Apr. 12, 1945. Flood of about July 28, 1933, reached a stage of 48 ft, from information by former observer. Flood of 1884 reached a stage about 2 ft lower than that of 1945 at ferry about 10 miles upstream, from information by local resident.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	3,960	29,700	28,600	11	2,230	27,200	17,000	21	1,830	66,400	578
2	3,790	29,500	27,900	12	2,080	25,400	11,000	22	1,770	61,600	525
3	3,450	28,400	27,100	13	1,960	25,000	4,040	23	1,820	56,300	481
4	3,000	28,900	26,300	14	1,850	25,100	1,830	24	1,880	50,800	435
5	2,670	30,400	25,400	15	2,080	25,700	1,340	25	1,980	45,300	402
6	2,510	31,400	24,500	16	2,690	27,900	1,110	26	1,970	40,700	381
7	2,460	31,600	23,400	17	2,930	31,700	960	27	2,380	37,200	360
8	2,420	31,200	22,200	18	2,770	46,700	829	28	3,920	34,400	348
9	2,340	30,300	20,900	19	2,400	64,500	723	29	15,100	32,200	430
10	2,310	29,000	19,400	20	2,040	68,800	642	30	25,500	30,700	486
								31	-	29,600	-
Monthly mean discharge, in cubic feet per second									3,670	37,210	9,653
Runoff, in thousand acre-feet									218.4	2,288	574.4
Runoff, in inches									0.63	6.56	1.65

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 26		12	39.60	30,000	6	44.90	53,300		June 2	
6	11.41	1,980		May 5		12	45.66	58,600	N	38.48	27,900
4	11.36	1,960	N	39.78	30,400		May 19		12	38.28	27,500
12	11.42	1,990	12	40.00	30,800	6	46.18	62,400		June 3	
	April 27			May 6		N	46.53	65,200	N	38.07	27,100
4	11.54	2,050	8	40.20	31,300	6	46.75	67,000	12	37.82	26,700
8	11.72	2,140	4	40.32	31,600	12	46.90	68,200		June 4	
N	12.03	2,310	12	40.35	31,600		May 20		N	37.58	26,300
6	12.62	2,650		May 7		6	46.98	68,800	12	37.32	25,900
12	13.20	3,000	1	40.35	31,600	11	47.01	69,100		June 5	
	April 28		N	40.32	31,600	2	47.01	69,100	N	37.02	25,400
6	13.71	3,310	12	40.27	31,400	12	46.91	68,300	12	36.70	25,000
N	14.12	3,550		May 8			May 21			June 6	
4	14.37	3,700	N	40.19	31,300	N	46.70	66,600	N	36.37	24,500
6	14.55	3,810	12	40.00	30,800	12	46.41	64,300	12	35.98	24,000
8	15.48	4,410		May 9			May 22			June 7	
10	18.00	6,200	N	39.76	30,300	N	46.08	61,600	N	35.58	23,400
12	19.60	7,430	12	39.44	29,700	12	45.71	59,000	12	35.13	22,800
	April 29			May 10			May 23			June 8	
2	21.00	8,600	N	39.08	29,000	N	45.34	56,400	N	34.64	22,200
4	22.75	10,100	12	38.62	28,100	12	44.91	53,400	12	34.12	21,500
6	24.50	11,700		May 11			May 24			June 9	
8	26.50	13,600	N	38.14	27,300	N	44.54	50,800	N	33.58	20,900
10	28.10	15,100	12	37.55	26,300	12	44.15	48,000	12	33.00	20,200
N	29.20	16,200		May 12			May 25			June 10	
2	30.00	17,000	N	36.95	25,300	N	43.76	45,300	8	32.57	19,700
8	31.95	19,000	12	36.62	24,900	12	43.33	42,700	4	32.08	19,200
12	33.27	20,500		May 13			May 26		12	31.50	18,600
	April 30		N	36.70	25,000	N	42.91	40,600		June 11	
8	36.25	24,400	12	36.72	25,000	12	42.50	38,800	N	30.26	17,200
4	38.20	27,400		May 14			May 27		12	28.00	15,000
8	38.70	28,300	N	36.78	25,100	N	42.08	37,100		June 12	
12	39.05	28,900	12	36.96	25,300	12	41.67	35,600	4	26.85	13,900
	May 1			May 15			May 28		8	25.50	12,600
N	39.56	29,900	8	37.08	25,500	N	41.27	34,300	N	23.95	11,200
6	39.60	30,000	6	37.20	25,700	12	40.92	33,200	4	22.20	9,630
12	39.56	29,900	12	37.90	26,800		May 29		8	20.40	8,090
	May 2			May 16		N	40.56	32,200	12	18.65	6,690
4	39.50	29,800	N	38.50	27,900	12	40.23	31,400		June 13	
N	39.34	29,500	6	38.78	28,400		May 30		4	17.22	5,620
12	39.08	29,000	12	39.26	29,300	N	39.96	30,700	8	15.72	4,570
	May 3			May 17		12	39.64	30,100	N	14.44	3,740
N	38.76	28,400	N	40.05	30,900		May 31		4	13.42	3,130
12	38.42	27,800	6	40.90	33,100	N	39.38	23,600	8	12.66	2,680
	May 4		12	41.74	35,900	12	39.13	29,100	12	12.10	2,350
4	38.32	27,600		May 18			June 1			June 14	
8	38.85	28,500	6	42.76	39,900	N	38.89	28,600	6	11.45	2,000
4	39.33	29,500	N	43.90	46,300	12	38.70	28,300	N	11.00	1,780

Palo Gaucho Bayou near Hemphill, Tex.

Location.--Lat 31°23', long 93°50', at bridge on State Highway 87, 0.2 mile upstream from Boregas Creek, 3.6 miles north of Hemphill, Sabine County, 4.2 miles downstream from Sandy Creek, and about 13 miles upstream from Sabine River.
Drainage area.--121 sq mi.
Gage-height record.--Graph based on twice-daily wire-weight gage readings Apr. 22 to June 3, and average daily gage height during rest of period.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 10,000 cfs and extended to peak stage.
Maxima.--April-June 1953: Discharge, 17,000 cfs 3 p.m. Apr. 29 (gage height, 22.50 ft).
1952 to March 1953: Discharge, 1,880 cfs Feb. 21, 1953 (gage height, 16.58 ft).
Stage known since at least 1907, 26.6 ft in July 1933, from information by local resident. Flood of June 1950 reached a stage of 23.0 ft, from information by State Highway Department.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	132	1,690	56	11	40	141	22	21	25	651	10
2	132	593	48	12	58	129	20	22	24	332	8.9
3	97	290	44	13	98	1,080	19	23	23	246	8.2
4	82	2,960	39	14	68	3,070	18	24	39	196	7.4
5	78	3,390	35	15	43	1,380	16	25	84	164	6.8
6	76	1,660	34	16	40	2,720	15	26	74	140	6.2
7	67	629	31	17	35	4,400	14	27	41	118	5.6
8	61	271	28	18	31	7,760	13	28	406	104	5.4
9	55	196	25	19	28	2,680	12	29	9,830	93	13
10	47	163	22	20	26	1,370	11	30	5,100	81	30
								31	-	66	-
Monthly mean discharge, in cubic feet per second									565	1,250	20.8
Runoff, in acre-feet									33,610	76,890	1,240
Runoff, in inches									5.21	11.91	0.19

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23			May 3		10	6.00	132	N	11.40	614
N	3.57	23	N	7.70	258	12	6.90	195	6	9.80	445
12	3.60	24	8	7.40	234		May 13		12	9.20	389
	April 24		10	8.70	344	2	9.10	380		May 22	
N	3.80	30	12	11.40	614	4	11.90	669	N	8.52	328
12	4.90	73		May 4		6	13.30	858	12	8.00	282
	April 25		2	14.20	1,020	8	13.60	908		May 23	
N	5.20	88	4	16.80	2,020	N	14.00	980	N	7.50	242
12	5.17	86	6	17.70	2,980	12	16.60	1,880	12	7.20	218
	April 26		9	18.24	3,680		May 14			May 24	
N	4.96	76	11	18.30	3,760	2	16.90	2,100	N	6.90	195
12	4.56	57	1	18.20	3,620	8	19.20	5,400	12	6.60	174
	April 27		5	17.90	3,220	6	16.70	1,950		May 25	
N	4.08	39	12	18.00	3,340	12	16.10	1,530	N	6.48	166
12	3.80	30		May 5			May 15		12	6.26	150
	April 28		5	18.40	3,920	6	15.60	1,360		May 26	
8	3.80	30	7	18.50	4,080	2	15.20	1,240	N	6.14	142
N	4.70	64	9	18.40	3,920	12	16.20	1,590	12	5.90	126
4	7.60	250	12	17.20	2,380		May 16			May 27	
6	12.20	706		May 6		8a	17.20	2,380	N	5.78	119
8	14.80	1,140	10	16.40	1,730	8p	18.10	3,480	12	5.60	108
12	16.50	1,800	6	15.60	1,360	12	18.20	3,620		May 28	
	April 29		12	14.00	980		May 17		N	5.52	104
4	18.20	3,620		May 7		6	18.00	3,340	12	5.41	98
10	20.60	9,060	8	11.80	658	4	17.80	3,100		May 29	
2	22.30	16,000	4	10.90	559	8	19.80	6,720	N	5.30	93
3	22.50	17,000	12	8.90	362	12	20.80	9,780	12	5.18	87
4	22.40	16,500		May 8			May 18			May 30	
12	20.70	9,420	N	7.63	252	2	20.92	10,200	N	5.08	82
	April 30		12	7.20	218	4	21.06	10,700	12	4.90	73
N	18.60	4,240		May 9		6	21.00	10,500		May 31	
12	17.30	2,500	N	6.90	195	10	20.40	8,400	N	4.76	66
	May 1		12	6.60	174	12	18.40	3,920	12	4.64	61
N	16.20	1,590		May 10			May 19			June 1	
6	15.60	1,360	N	6.44	163	N	17.30	2,500	N	4.50	56
12	14.40	1,060	12	6.30	153	12	16.50	1,800	12	4.40	52
	May 2			May 11			May 20			June 2	
6	12.80	784	N	6.12	140	N	15.50	1,330	N	4.30	48
N	10.30	495	12	5.98	131	12	14.20	1,020	12	4.22	45
12	8.40	317		May 12			May 21			June 3	
			N	5.82	121	6	13.20	842	N	4.20	44
									12	4.14	42

Bayou Anacoco near Leesville, La.

Location.--Lat 31°09'35", long 93°21'05", in NW¼NW¼ sec. 13, T. 2 N., R. 10 W., on State Highway 21, 2¾ miles upstream from Prairie Creek and 5½ miles west of Leesville. Altitude of gage is 200 ft (from topographic map).
Drainage area.--114 sq mi.
Gage-height record.--Water-stage recorder graph except for period 1:40 p.m. Apr. 29 to 7:40 a.m. Apr. 30, for which graph was drawn on basis of engineer's inspection and floodmark.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 26,200 cfs 5 p.m. Apr. 29 (gage height, 19.39 ft).
1948 to March 1953: Discharge, 20,000 cfs June 3, 1950 (gage height, 18.13 ft).
Remarks.--Flood runoff not affected by artificial storage.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	109	1,510	73	11	42	125	29	21	24	742	18
2	91	561	66	12	39	119	29	22	21	386	18
3	79	326	58	13	54	572	29	23	20	287	17
4	73	911	49	14	76	1,440	25	24	22	232	16
5	65	1,950	45	15	50	1,130	25	25	51	192	16
6	64	1,190	42	16	40	1,000	23	26	74	168	18
7	67	378	38	17	39	5,810	22	27	43	143	18
8	63	220	36	18	33	11,800	22	28	37	124	26
9	55	175	33	19	29	4,200	21	29	14,300	109	244
10	49	146	30	20	26	1,660	19	30	7,720	94	260
								31	-	82	-
Monthly mean discharge, in cubic feet per second									782	1,219	45.5
Runoff, in acre-feet									46,520	74,940	2,710
Runoff, in inches									7.65	12.33	0.45

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		7	19.32	25,900	9	14.43	2,140		May 15	
12	3.32	20	8	19.22	25,300	12	14.29	1,900	6	13.54	1,180
4	3.32	20	9	19.05	24,400		May 6		N	13.23	1,080
8	3.33	20	10	18.85	23,300	6	13.90	1,410	6	12.95	1,010
N	3.40	22	11	18.68	22,300	N	13.31	1,100	12	13.15	1,060
4	3.43	23	12	18.47	21,200	6	12.35	896		May 16	
8	3.46	24		April 30		12	11.90	815	6	13.16	1,060
12	3.52	25	2	17.97	18,500		May 7		N	12.98	1,020
	April 25		4	17.35	15,100	4	9.69	483	6	12.61	943
4	3.66	29	6	16.42	10,000	8	8.71	376	12	12.37	900
8	3.91	37	8	16.00	7,910	N	8.11	320		May 17	
N	4.19	49	10	15.65	6,170	4	7.73	286	3	13.22	1,080
4	4.43	61	N	15.42	5,130	8	7.49	267	6	13.47	1,160
8	4.71	76	2	15.25	4,460	12	7.31	253	9	13.81	1,330
12	4.88	87	4	15.12	3,990		May 8		N	15.00	3,590
	April 26		6	14.98	3,530	N	6.87	218	3	15.87	7,260
3	4.90	88	8	14.86	3,160	12	6.51	193	6	16.70	11,600
6	4.85	85	10	14.74	2,830		May 9		9	17.02	13,300
9	4.77	80	12	14.62	2,530	N	6.24	174	12	17.04	13,400
N	4.67	74		May 1		12	6.01	158		May 18	
3	4.57	69	6	14.25	1,840		May 10		2	17.03	13,400
6	4.46	63	N	13.79	1,320	N	5.84	146	4	17.19	14,200
9	4.38	58	6	13.24	1,080	12	5.66	134	6	17.22	14,400
12	4.32	55	12	13.29	1,100		May 11		8	17.21	14,400
	April 27			May 2		N	5.52	125	10	17.20	14,300
8	4.13	46	4	11.52	750	12	5.38	117	N	17.04	13,400
4	3.96	39	8	10.70	620		May 12		2	16.80	12,100
12	3.83	35	N	9.83	500	6	5.44	120	4	16.54	10,800
	April 28		4	9.12	417	N	5.29	111	6	16.26	9,270
6	3.77	33	8	8.66	371	6	5.23	108	8	16.02	8,010
N	3.70	30	12	8.32	339	12	5.98	156	10	15.83	7,060
6	3.74	32		May 3			May 13		12	15.71	6,460
12	4.55	68	4	8.09	318	2	6.36	182		May 19	
	April 29		8	7.88	299	4	7.43	262	N	15.09	3,890
1	5.55	127	N	7.71	285	6	8.72	377	12	14.63	2,550
2	8.50	355	4	7.57	274	8	9.61	473		May 20	
3	11.10	682	28	8.66	371	10	10.23	552	8	14.28	1,880
4	12.48	919	12	9.72	474	N	10.66	614	4	13.78	1,310
5	13.19	1,070		May 4		2	11.02	669	12	13.07	1,040
6	13.94	1,450	4	10.60	605	4	11.33	719		May 21	
7	14.51	2,290	8	12.00	833	6	11.60	764	6	12.35	896
8	15.22	4,340	N	12.86	991	8	11.89	813	N	11.46	740
9	15.70	6,410	4	13.15	1,060	10	12.29	885	6	10.39	575
10	16.40	10,000	8	13.38	1,130	12	12.60	941	12	9.58	470
11	17.32	14,900	12	13.61	1,220		May 14			May 22	
12	18.12	19,300		May 5		3	13.07	1,040	N	8.70	375
1	18.68	22,300	3	13.77	1,310	6	13.52	1,180	12	8.16	324
2	19.07	24,500	6	14.01	1,520	9	13.90	1,410		May 23	
3	19.24	25,400	9	14.28	1,880	N	14.11	1,640	N	7.71	285
4	19.34	26,000	N	14.53	2,330	3	14.19	1,750	12	7.34	255
5	19.39	26,200	3	14.60	2,480	6	14.17	1,720		May 24	
6	19.37	26,100	6	14.56	2,400	9	14.08	1,600	N	7.07	234
						12	13.92	1,430	12	6.71	207

Bayou Anacoco near Rosepine, La.

Location.--Lat 30°57'10", long 93°21'10", on line between secs. 25 and 26, T. 1 S., R. 10 W., on parish road from Rosepine to Evans, just downstream from Pocosin Creek and 4.8 miles northwest of Rosepine. Altitude of gage is 120 ft (from projection of profile on topographic map to the north).
Drainage area.--360 sq mi.
Gage-height record.--Graph based on twice-daily wire-weight gage readings and floodmarks on crest-stage indicator. No readings obtained Apr. 29, May 17-20.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 47,000 cfs and extended to peak stage. Discharge for Apr. 29, May 17-20 estimated on basis of records for station near Leesville.
Maxima.--April-June 1953: Discharge, 64,300 cfs May 19 (gage height, 28.38 ft, from floodmark).
1951 to March 1953: Discharge, 23,800 cfs Apr. 24, 1952 (gage height, 23.61 ft).
Remarks.--Flood runoff not appreciably affected by artificial storage. Low flow partly regulated by Anacoco-Prairie Lake 15 miles above station.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	433	21,100	294	11	197	622	121	21	133	6,100	69
2	346	7,120	263	12	197	526	119	22	128	3,390	72
3	289	3,700	241	13	200	2,180	113	23	122	1,850	82
4	285	5,420	216	14	198	2,390	103	24	138	1,220	69
5	256	6,950	197	15	184	4,070	99	25	320	917	64
6	245	6,160	175	16	171	8,310	94	26	187	738	62
7	237	4,240	159	17	162	13,000	88	27	116	628	60
8	227	2,320	146	18	155	30,000	81	28	89	527	143
9	217	1,160	137	19	146	40,000	75	29	13,900	452	486
10	206	766	127	20	139	15,000	74	30	49,900	391	538
								31	-	341	-
Monthly mean discharge, in cubic feet per second									2,317	6,181	152
Runoff, in acre-feet									137,900	380,000	9,060
Runoff, in inches									7.18	19.79	0.47

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24			May 1		12	11.97	1,490		May 15	
12	4.50	121	3	24.64	31,700		May 9		4	17.78	3,380
6	4.51	122	6	24.02	27,000	4	11.35	1,370	8	18.41	3,710
N	4.58	131	9	23.39	22,300	8	10.74	1,250	N	18.86	3,990
6	4.68	143	N	22.88	18,800	N	10.21	1,140	4	19.30	4,300
12	5.14	193	3	22.52	16,600	4	9.71	1,040	8	19.73	4,760
	April 25		6	22.24	14,900	8	9.32	964	12	20.18	5,580
2	5.81	317	9	21.93	13,100	12	8.99	898		May 16	
4	6.25	392	12	21.66	11,600		May 10		6	20.82	7,480
6	6.40	417		May 2		6	8.54	813	N	21.30	9,700
8	6.30	400	4	21.28	9,600	N	8.22	752	6	21.16	9,000
10	6.07	361	8	20.97	8,120	6	8.00	710	12	21.07	8,560
N	5.91	334	N	20.65	6,840	12	7.84	680		May 20	
2	5.77	310	4	20.18	5,580		May 11		12	21.22	9,300
4	5.67	294	8	19.68	4,700	N	7.54	623		May 21	
6	5.57	278	12	19.12	4,160	12	7.20	561	6	20.74	7,160
8	5.48	264		May 3			May 12		N	20.26	5,760
10	5.40	251	6	18.40	3,700	3	7.11	545	6	19.72	4,750
12	5.33	240	N	17.86	3,420	6	7.02	529	12	19.23	4,240
	April 26		6	18.23	3,610	9	6.92	511		May 22	
6	5.15	211	12	18.83	3,970	N	6.84	496	6	18.58	3,810
N	4.98	184		May 4		3	6.76	482	N	17.83	3,410
6	4.82	161	6	19.46	4,450	6	6.68	467	6	16.90	2,960
12	4.68	143	N	20.09	5,380	9	6.76	482	12	15.85	2,550
	April 27		6	20.53	6 440	12	8.65	834		May 23	
6	4.57	129	12	20.66	6,860		May 13		6	14.54	2,140
N	4.44	114		May 5		2	10.90	1,280	N	12.94	1,740
6	4.33	102	6	20.70	7,000	4	13.04	1,760	6	12.14	1,540
12	4.23	92	N	20.72	7,080	6	14.85	2,230	12	11.57	1,410
	April 28		6	20.68	6,930	8	15.20	2,340		May 24	
6	4.08	77	12	20.62	6,730	10	15.36	2,380	6	11.04	1,310
N	4.05	74		May 6		N	15.48	2,420	N	10.55	1,210
6	4.07	76	N	20.46	6,250	2	15.56	2,450	6	10.14	1,130
12	4.84	164	12	20.10	5,400	4	15.60	2,460	12	9.72	1,050
	April 29			May 7		6	15.58	2,450		May 25	
12	27.27	54,300	6	19.61	4,610	8	15.51	2,430	N	8.95	906
	April 30		N	19.10	4,150	10	15.39	2,390	12	8.43	807
3	27.54	56,800	6	18.58	3,810	12	15.10	2,300		May 26	
6	27.58	57,100	12	17.78	3,380		May 14		N	8.05	734
9	27.09	52,700		May 8		4	14.91	2,250	12	7.75	678
N	26.82	50,300	4	16.85	2,940	8	14.87	2,240		May 27	
3	26.78	49,900	8	16.00	2,600	N	14.98	2,270	N	7.50	630
6	26.40	46,500	N	15.01	2,280	4	15.28	2,360	12	7.19	572
9	25.72	40,600	4	13.91	1,980	8	16.02	2,610		May 28	
12	25.26	36,700	8	12.69	1,670	12	16.92	2,970	N	6.92	524
									12	6.72	488

Sabine River near Bon Wier, Tex.

Location.--Lat 30°45'00", long 93°36'30", at bridge on U. S. Highway 190, 0.7 mile upstream from Quicksand Creek, 0.8 mile upstream from Gulf, Colorado & Santa Fe Railway bridge, 2.0 miles east of Bon Wier, Newton County, 2.4 miles upstream from Caney Creek, and at mile 98. Datum of gage is 46.42 ft above mean sea level, datum of 1929.
Drainage area.--8,323 sq mi.
Gage-height record.--Graph drawn on basis of twice-daily wire-weight gage readings.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used Apr. 2-29.
Maxima.--April-June 1953: Discharge, 115,000 cfs 10-12 p.m. May 19 (gage height, 25.70 ft, from floodmark).
1923-34, 1939 to March 1953: Discharge, 75,500 cfs Apr. 17, 18, 1945; gage height, 23.35 ft June 6, 1950.
Stage known since at least 1833, 30.5 ft (revised) Apr. 23 or 24, 1913, from information by Gulf, Colorado & Santa Fe Railway and local residents. Flood of May 1884 reached a stage of about 26 ft and that of May 1935, 23.4 ft.
Remarks.--Small diversions above station.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	8,270	69,200	44,500	11	3,700	38,800	26,500	21	3,080	95,200	2,090
2	6,740	67,700	41,800	12	3,560	37,700	24,800	22	2,810	84,800	1,960
3	6,036	58,000	39,400	13	3,470	38,600	22,500	23	2,770	79,900	1,930
4	5,600	59,500	37,200	14	3,440	40,000	16,000	24	2,800	75,000	1,930
5	5,100	59,400	35,200	15	3,250	41,200	8,850	25	3,460	73,200	1,680
6	4,670	51,900	33,700	16	3,120	44,700	4,800	26	3,720	69,300	1,610
7	4,350	47,800	31,900	17	3,360	48,500	3,420	27	3,310	64,500	1,550
8	4,150	45,400	30,400	18	3,700	78,000	2,840	28	3,540	60,100	1,450
9	3,960	43,400	29,100	19	3,740	111,000	2,530	29	16,800	55,500	2,210
10	3,850	40,700	27,800	20	3,480	110,000	2,280	30	47,200	51,600	4,280
								31	-	48,300	-
Monthly mean discharge, in cubic feet per second									5,901	60,930	16,210
Runoff, in thousand acre-feet									351.1	3,747	964.4
Runoff, in inches									0.79	8.44	2.17

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 28		12	21.20	39,600	12	23.48	77,600	12	19.90	31,000
8	5.30	3,110		May 11			May 24			June 8	
4	5.70	3,480	N	21.10	38,800	N	23.35	74,700	N	19.80	30,500
12	7.10	4,910	12	21.02	38,200	12	23.28	73,200	12	19.65	29,800
	April 29			May 12			May 25			June 9	
6	8.70	6,640	8	20.97	37,800	N	23.30	73,600	N	19.51	29,000
10	11.70	10,600	6	20.90	37,300	12	23.25	72,500	12	19.38	28,500
2	16.00	18,200	12	20.93	37,500		May 26			June 10	
6	19.10	27,000		May 13		N	23.10	69,000	N	19.21	27,800
12	20.60	35,200	N	21.10	38,800	12	23.00	66,600	12	19.04	27,200
	April 30		12	21.18	39,400		May 27			June 11	
6	21.40	41,200		May 14		N	22.90	64,400	N	18.87	26,500
2	22.10	48,800	N	21.25	40,000	12	22.82	62,600	12	18.70	25,800
12	22.70	60,000	12	21.30	40,400		May 28			June 12	
	May 1			May 15		N	22.70	60,000	N	18.45	24,800
6	23.00	66,600	N	21.40	41,200	12	22.60	57,800	12	18.15	23,900
2	23.20	71,400	12	21.50	42,000		May 29			June 13	
9	23.30	73,600		May 16		N	22.49	55,400	6	18.00	23,400
12	23.30	73,600	N	21.80	45,200	12	22.39	53,400	N	17.80	22,800
	May 2		12	21.90	46,400		May 30		6	17.43	21,800
N	23.06	68,000		May 17		N	22.28	51,500	12	16.85	20,700
12	22.75	61,100	N	21.95	47,000	12	22.18	49,900		June 14	
	May 3		8	21.95	47,000		May 31		4	16.37	19,100
N	22.57	57,000	12	22.30	51,800	N	22.07	48,400	N	14.95	15,900
12	22.55	56,700		May 18		12	21.90	46,400	6	13.75	13,700
	May 4		N	23.50	78,000		June 1		12	12.55	11,800
N	22.68	59,600	12	24.92	104,000	N	21.72	44,200		June 15	
12	22.80	62,200		May 19		12	21.62	43,200	8	10.75	9,280
	May 5		4	25.19	108,000		June 2		4	9.10	8,430
N	22.72	60,400	N	25.50	112,000	N	21.47	41,800	12	8.00	5,900
12	22.45	54,600	6	25.65	114,000	12	21.31	40,500		June 16	
	May 6		10	25.70	115,000		June 3		6	7.45	5,330
N	22.30	51,800	12	25.70	115,000	N	21.18	39,400	4	6.50	4,380
12	22.15	49,500		May 20		12	21.03	38,200	12	6.00	3,880
	May 7		8	25.50	112,000		June 4			June 17	
N	22.00	47,600	6	25.10	107,000	N	20.90	37,300	N	5.47	3,370
12	21.90	46,400	12	24.83	102,000	12	20.75	36,200	12	5.12	3,060
	May 8			May 21			June 5			June 18	
N	21.80	45,200	N	24.40	95,200	N	20.60	35,200	N	4.84	2,820
12	21.75	44,600	12	24.02	88,400	12	20.49	34,400	12	4.65	2,670
	May 9			May 22			June 6			June 19	
N	21.65	43,500	N	23.82	84,400	N	20.38	33,800	N	4.50	2,550
12	21.50	42,000	12	23.70	82,000	12	20.21	32,800	12	4.25	2,350
	May 10			May 23			June 7			June 20	
N	21.32	40,600	N	23.60	80,000	N	20.06	31,900	N	4.19	2,300
									12	4.03	2,170

Big Cow Creek near Newton, Tex.

Location.--Lat 30°49'10", long 93°47'05", at bridge on State Highway 87, 2.6 miles southwest of Newton, Newton County, 5.0 miles downstream from Bishop Creek, and 8.0 miles upstream from Whiteoak Creek. Datum of gage is 134 ft above mean sea level (State Highway Department bridge plans).
Drainage area.--141 sq mi.
Gage-height record.--Graph based on twice-daily wire-weight gage readings, Apr. 24 to June 30, and average daily gage height during rest of period.
Discharge record.--Stage-discharge relation defined by current-meter measurements below 14,000 and extended to peak stage.
Maxima.--April-June 1953: Discharge, 20,200 cfs 8 p.m. Apr. 29 (gage height, 19.45 ft, from floodmark).
1952 to March 1953: Discharge, 1,790 cfs Apr. 24, 1952 (gage height, 14.93 ft). Stage known since at least 1907, 27.5 ft in April 1922, from information by local resident.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	70	1,050	130	11	58	110	89	21	45	633	69
2	64	341	123	12	56	104	87	22	46	407	74
3	64	220	116	13	60	415	85	23	45	331	114
4	64	769	111	14	77	604	84	24	48	269	165
5	62	1,410	106	15	59	459	81	25	132	234	101
6	67	604	103	16	54	1,080	78	26	162	205	79
7	75	216	99	17	50	1,610	75	27	77	184	72
8	70	163	96	18	49	7,870	74	28	62	169	74
9	64	140	93	19	49	3,910	72	29	9,520	156	414
10	62	124	91	20	47	1,270	70	30	4,630	146	569
								31	-	137	-
Monthly mean discharge, in cubic feet per second									533	817	120
Runoff, in acre-feet									31,710	50,260	7,130
Runoff, in inches									4.22	6.68	0.95

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		8	16.00	3,920	12	8.50	178	6	11.00	465
N	6.14	46	4	15.50	2,620		May 8		12	12.00	624
10	6.22	50	12	15.00	1,690	N	8.30	162		May 16	
12	6.50	63		May 1		12	8.15	150	6	13.40	906
	April 25		6	14.55	1,330		May 9		N	13.95	1,070
4	7.30	110	6	12.70	749	N	8.02	140	12	14.70	1,480
N	7.70	140	12	11.30	510	12	7.90	131		May 17	
12	7.96	162		May 2			May 10		10	15.05	1,870
	April 26		6	10.40	382	N	7.80	124	6	14.70	1,480
8	8.05	169	6	9.50	275	12	7.70	117	12	14.55	1,360
8	7.95	161	12	9.20	244		May 11			May 18	
12	7.60	132		May 3		N	7.60	110	2	14.60	1,400
	April 27		N	8.85	210	12	7.52	104	6	15.80	3,650
6	6.80	78	12	9.02	216		May 12		10	17.40	8,920
6	6.50	63		May 4		N	7.50	103	3	18.47	13,800
12	6.45	60	4	9.72	300	12	7.52	104	6	18.00	11,500
	April 28		8	11.10	480		May 13		12	16.95	7,230
N	6.30	54	N	12.70	749	4	7.80	124		May 19	
8	6.34	56	8	14.40	1,270	8	9.00	224	6	16.25	4,930
10	6.60	68	12	14.60	1,400	10	10.00	334	6	15.35	2,500
12	8.00	164		May 5		N	10.80	436	12	15.00	1,780
	April 29		6	14.87	1,630	4	11.90	607		May 20	
2	9.50	308	N	14.75	1,520	8	12.35	684	N	14.30	1,220
6	12.70	753	12	13.80	1,030	12	12.55	719	12	13.20	854
10	16.20	4,780		May 6			May 14			May 21	
2	18.60	14,600	6	13.05	820	4	12.40	692	N	11.90	607
6	19.35	19,400	N	11.80	590	N	11.90	607	12	11.00	465
8	19.45	20,200	6	10.20	358	12	11.05	472		May 22	
12	18.50	14,000	12	9.40	264		May 15		N	10.55	402
	April 30			May 7		6	10.70	422	12	10.20	358
6	16.50	5,450	N	8.85	210	N	10.55	402		May 23	
									N	10.00	334
									12	9.70	298

Cypress Creek near Buna, Tex.

Location.--Lat 30°25'45", long 93°54'20", at bridge on Farm Road 253, 1.0 mile downstream from unnamed tributary, 3.2 miles east of Buna, Jasper County, and about 10 miles upstream from Little Cypress Creek. Datum of gage is 46 ft above mean sea level(State Highway Department bridge plans).
Drainage area.--63.4 sq mi.
Gage-height record.--Graph based on twice-daily readings of wire-weight gage Apr. 24 to June 17 and average daily gage height during rest of period.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 3,320 cfs 2 a.m. Apr. 30 (gage height, 11.65 ft, from graph based on gage readings).
1952 to March 1953: Discharge, 3,800 cfs Apr. 23, 1952 (gage height, 11.93 ft, from graph based on gage readings).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	15	1,090	0.7	11	1.2	11	18	21	0	914	0
2	12	866	.5	12	.8	10	138	22	0	572	0
3	15	571	.4	13	.4	137	38	23	0	231	.1
4	8.0	836	.2	14	.3	308	6.4	24	91	49	.1
5	5.5	697	.2	15	.3	213	1.6	25	590	21	0
6	3.8	451	.1	16	.2	540	1.0	26	284	10	0
7	4.3	270	.1	17	.2	800	.4	27	110	6.1	0
8	3.6	111	0	18	.2	850	.2	28	61	4.5	0
9	2.6	39	0	19	.1	1,800	.1	29	503	2.9	6.7
10	2.2	20	0	20	.1	1,640	.1	30	1,740	1.8	45
								31	-	1.1	-
Monthly mean discharge, in cubic feet per second									115	422	8.60
Runoff, in acre-feet									6,850	25,930	512
Runoff, in inches									2.03	7.67	0.15

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24			May 1			May 13			May 22	
8	1.60	0	N	9.87	1,110	2	6.26	110	N	9.00	575
10	2.00	1.0	12	9.85	1,090	4	6.26	110	12	8.52	386
N	3.40	18		May 2		8	6.00	97		May 23	
2	5.20	66	N	9.50	850	N	5.76	87	4	8.36	340
4	6.36	115	12	9.20	675	2	5.68	84	8	8.14	293
6	7.10	164		May 3		4	5.72	86	N	7.70	227
8	7.76	235	4	8.87	516	6	6.15	104	4	7.10	164
10	8.18	301	8	8.83	498	8	7.20	173	8	6.45	120
12	8.50	380	12	9.00	575	10	8.25	315	12	5.90	93
	April 25			May 4		12	8.80	485		May 24	
2	8.80	485	8	9.47	832		May 14		4	5.30	70
6	9.10	625	4	9.60	915	2	8.80	485	8	4.80	54
10	9.23	692	12	9.65	948	4	8.60	410	N	4.50	44
2	9.20	675		May 5		10	8.12	289	4	4.25	37
6	9.03	590	8	9.55	882	4	7.92	256	8	4.05	32
12	8.75	465	N	9.30	730	12	7.60	214	12	3.90	28
	April 26		4	8.80	485		May 15			May 25	
6	8.43	359	8	8.72	453	6	7.50	203	N	3.56	22
N	8.02	272	12	8.80	485	N	7.50	203	12	3.04	12
6	7.44	196		May 6		6	7.57	211		May 26	
12	7.00	156	8	8.90	530	12	7.93	258	N	2.95	11
	April 27		6	8.51	383		May 16		12	2.70	7.1
8	6.50	123	12	8.40	350	4	8.40	350		May 27	
N	6.20	107		May 7		8	8.80	485	N	2.60	5.9
6	5.70	85	4	8.38	345	N	9.00	575	12	2.56	5.5
12	5.40	74	N	7.98	266	6	9.20	675		June 11	
	April 28		12	7.24	177	12	9.30	730	N	1.55	0
10	5.16	65		May 8			May 17		4	1.86	.3
4	4.92	57	8	6.70	135	6	9.40	790	6	2.30	2.9
12	4.56	46	4	5.78	88	N	9.47	832	8	3.60	22
	April 29		12	4.96	58	6	9.47	832	10	6.30	112
4	4.42	42		May 9		12	9.35	760	12	7.05	160
8	4.40	42	8	4.45	43		May 18			June 12	
N	4.55	46	4	4.08	33	6	9.20	675	2	7.20	173
2	5.25	68	12	3.80	26	N	9.43	808	6	7.18	171
4	6.80	141		May 10		6	9.70	980	N	6.92	146
6	8.30	325	N	3.45	19	12	9.88	1,110	4	6.52	122
8	9.80	1,050	12	3.15	14		May 19		8	6.05	100
10	11.15	2,580		May 11		6	10.12	1,340	12	5.50	77
12	11.55	3,180	N	2.95	11	N	10.60	1,840		June 13	
	April 30		12	2.80	9.4	8	11.14	2,560	4	5.00	60
2	11.65	3,320		May 12		12	10.98	2,320	8	4.50	44
4	11.52	3,130	6	2.72	7.4		May 20		2	3.90	28
6	11.20	2,650	N	2.65	6.5	N	10.35	1,570	12	3.18	14
10	10.30	1,520	6	2.60	5.9	12	9.86	1,100		June 14	
2	9.60	915	8	2.68	6.9		May 21		N	2.60	5.9
8	9.75	1,020	10	3.30	16	N	9.58	902	6	2.20	2.2
12	9.80	1,050	12	5.40	74	12	9.34	754	12	2.07	1.3

Sabine River near Ruliff, Tex.

Location.--Lat 30°18'10", long 93°44'40", at bridge on State Highway 235, 2.4 miles north of Ruliff, Newton County, 4.2 miles upstream from Kansas City Southern Railway bridge, 4.5 miles downstream from Cypress Creek, and at mile 40. Datum of gage is 4.08 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.
Drainage area.--9,440 sq mi.
Gage-height record.--Water-stage recorder graph except May 21-23, when recorder was removed and for which graph was drawn on basis of gage readings.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 121,000 cfs 10 a.m. to 12 noon May 22; gage height, 19.98 ft 10 a.m May 22.
1924 to March 1953: Discharge, 86,000 cfs Dec. 16, 1940; gage height, 17.9 ft May 24, 25, 1935, present site and datum.
Stage known since at least 1835, about 22.2 ft in May or June 1884 (adjusted to present site and datum), from information by local resident.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	25,000	13,400	52,200	11	5,150	44,700	28,200	21	4,390	115,000	4,280
2	21,200	44,200	48,300	12	4,860	42,100	27,400	22	4,130	120,000	3,630
3	17,000	63,800	44,900	13	4,650	43,600	26,500	23	3,830	113,000	3,480
4	13,400	73,200	41,800	14	4,480	42,300	25,000	24	4,180	104,000	3,310
5	10,800	74,600	39,100	15	4,380	42,300	23,200	25	7,520	93,700	3,210
6	8,790	71,100	36,500	16	4,230	44,100	20,600	26	8,700	85,200	3,080
7	7,480	66,600	34,500	17	4,050	46,400	16,600	27	8,520	78,200	2,870
8	6,490	61,000	32,600	18	4,030	52,000	12,200	28	7,650	72,000	2,680
9	5,860	54,300	30,900	19	4,230	62,900	8,350	29	6,680	66,400	3,370
10	5,440	48,400	29,400	20	4,430	90,400	5,780	30	8,440	61,300	4,360
								31		56,500	
Monthly mean discharge, in cubic feet per second									7,666	66,020	20,610
Runoff, in thousand acre-feet									456.2	4,060	1,226
Runoff, in inches									0.91	8.06	2.43

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 29		12	15.32	43,300		May 24		12	14.62	31,700
8	10.77	6,550		May 12		N	18.97	104,000		June 9	
6	10.79	6,580	N	15.25	41,600	12	18.67	98,600	N	14.57	30,900
12	10.96	6,900	8	15.20	41,300		May 25		12	14.53	30,200
	April 30		12	15.31	43,100	N	18.37	93,600		June 10	
6	11.29	7,560		May 13		6	18.22	91,100	N	14.48	29,400
N	11.65	8,380	N	15.37	44,100	12	18.10	89,200	12	14.44	28,800
12	12.29	10,200	12	15.32	43,300		May 26			June 11	
	May 1			May 14		N	17.85	85,000	N	14.40	28,100
6	12.58	11,300	N	15.25	42,100	12	17.63	81,400	12	14.38	27,800
N	12.86	12,500	12	15.23	41,800		May 27			June 12	
6	13.24	14,700		May 15		N	17.43	78,100	N	14.35	27,300
12	13.85	20,200	N	15.25	42,100	12	17.25	75,100	12	14.35	27,300
	May 2		12	15.32	43,300		May 28			June 13	
4	14.59	31,200		May 16		N	17.05	71,800	N	14.30	26,400
N	15.59	47,700	N	15.37	44,100	12	16.89	69,200	12	14.26	25,800
6	15.96	53,800	12	15.42	44,900		May 29			June 14	
12	16.24	58,500		May 17		N	16.72	66,400	N	14.21	25,000
	May 3		N	15.50	46,200	12	16.56	63,700	12	14.15	24,100
N	16.59	64,200	12	15.62	48,200		May 30			June 15	
12	16.85	68,500		May 18		N	16.41	61,300	N	14.10	23,400
	May 4		6	15.67	49,100	12	16.27	59,000	12	14.01	22,100
6	16.97	70,500	9	15.70	49,600		May 31			June 16	
9	17.15	73,500	N	15.86	52,200	N	16.11	56,300	N	13.89	20,700
2	17.25	75,100	6	16.01	54,700	12	15.99	54,300	12	13.72	18,700
12	17.28	75,600	12	16.14	56,800		June 1			June 17	
	May 5			May 19		N	15.86	52,200	N	13.50	16,600
1	17.28	75,600	N	16.42	61,400	12	15.74	50,200	12	13.20	14,400
N	17.23	74,800	9	16.87	68,900		June 2			June 18	
12	17.13	73,100	12	17.17	73,800	N	15.62	48,200	6	13.00	13,000
	May 6			May 20		12	15.52	46,600	N	12.79	12,200
6	17.08	72,300	6	17.68	82,200		June 3		6	12.54	11,200
N	17.00	71,000	N	18.20	90,800	N	15.41	44,800	12	12.26	10,100
12	16.88	69,000	6	18.67	98,500	12	15.32	43,300		June 19	
	May 7		12	19.14	106,000		June 4		6	11.93	9,100
N	16.74	66,700		May 21		N	15.23	41,800	N	11.62	8,310
12	16.59	64,200	6	19.49	112,000	12	15.15	40,500	6	11.28	7,540
	May 8		N	19.70	116,000		June 5		12	10.92	6,820
N	16.40	61,100	12	19.91	120,000	N	15.06	39,000		June 20	
12	16.20	57,800		May 22		12	14.99	37,800	N	10.23	5,720
	May 9		6	19.96	120,000		June 6		12	9.54	4,850
N	15.98	54,200	10	19.98	121,000	N	14.90	36,400		June 21	
12	15.78	50,900	N	19.97	121,000	12	14.85	35,500	6	9.22	4,520
	May 10		6	19.91	120,000		June 7		N	8.94	4,240
N	15.62	48,200	12	19.80	118,000	N	14.79	34,500	6	8.70	4,020
12	15.50	46,200		May 23		12	14.72	33,400	12	8.49	3,850
	May 11		N	19.54	113,000		June 8				
N	15.40	44,600	12	19.26	109,000	N	14.67	32,600			

Cow Bayou near Mauriceville, Tex.

Location.--Lat 30°11'05", long 93°54'40", at bridge on State Highway 235, half a mile upstream from Kansas City Southern Railway bridge, and 3 miles southwest of Mauriceville, Orange County. Datum of gage is 4.7 ft above mean sea level (State Highway Department bridge plans).
Drainage area.--127 sq mi.
Gage-height record.--Graph based on twice-daily readings of wire-weight gage Apr. 24 to May 30 and average daily gage height during rest of period.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 1,950 cfs 3 p.m. May 19 (gage height, 14.15 ft, from graph based on gage readings).
1952 to March 1953: Discharge, 3,380 cfs Apr. 24, 1952 (gage height, 15.16 ft). Stage known, 16.51 ft on Feb. 2, 1952, from floodmarks. Flood in 1940 reached a stage of 14.8 ft, from Texas Highway Department bridge plans.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	67	368	6.5	11	6.7	158	0.4	21	0.1	1,360	0.2
2	44	356	2.7	12	5.0	114	2.9	22	.1	956	.2
3	34	356	1.4	13	3.6	406	3.1	23	.1	549	.2
4	27	578	.9	14	2.4	331	1.4	24	112	339	.2
5	21	792	.6	15	1.6	433	.8	25	342	204	.2
6	16	880	.4	16	1.0	647	.4	26	420	109	.2
7	14	760	.3	17	.6	626	.3	27	490	49	.2
8	11	546	.2	18	.3	1,330	.2	28	482	31	2.4
9	8.4	382	.2	19	.2	1,920	.2	29	477	27	29
10	6.1	239	.2	20	.1	1,740	.2	30	420	18	21
								31	-	8.2	-
Monthly mean discharge, in cubic feet per second									100	536	2.57
Runoff, in acre-feet									5,980	32,950	153
Runoff, in inches									0.88	4.86	0.023

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24			April 30		12	5.90	303	4	9.90	833
6	1.70	0	6	7.05	441		May 10		6	10.95	996
8	1.75	.1	N	6.82	413	6	5.40	224	8	11.80	1,140
10	2.45	9.4	6	6.70	399	10	5.23	225	10	12.40	1,280
N	3.45	64	12	6.60	387	2	5.23	225	N	12.90	1,410
2	4.30	132		May 1		6	5.30	233	2	13.22	1,510
4	4.85	185	N	6.40	363	12	5.14	215	4	13.50	1,600
6	5.20	222	12	6.35	357		May 11		6	13.70	1,690
8	5.57	263		May 2		8	4.70	170	8	13.83	1,760
10	5.90	303	6	6.37	359	4	4.40	141	10	13.90	1,800
12	6.10	327	N	6.35	357	12	4.10	114	12	13.98	1,850
	April 25		6	6.32	353		May 12			May 19	
2	6.22	341	12	6.28	349	8	3.88	96	4	14.06	1,890
4	6.28	349		May 3		2	3.82	92	10	14.10	1,920
6	6.30	351	6	6.28	349	6	3.90	98	2	14.14	1,940
8	6.30	351	N	6.30	351	8	4.10	114	3	14.15	1,950
2	6.20	339	6	6.36	358	10	4.50	150	8	14.12	1,930
6	6.15	333	10	6.50	375	12	6.00	315	12	14.10	1,920
8	6.17	335	12	6.62	389		May 13			May 20	
10	6.21	340		May 4		2	7.07	443	8	13.93	1,820
12	6.35	357	6	7.15	453	4	7.18	457	4	13.68	1,680
	April 26		8	7.40	484	6	7.18	457	12	13.40	1,550
4	6.60	387	10	7.70	523	8	7.15	453		May 21	
8	6.80	411	N	8.20	591	N	6.85	417	6	13.09	1,460
N	6.92	425	2	8.63	649	4	6.60	387	N	12.70	1,350
6	7.12	449	4	8.90	687	12	6.20	339	6	12.32	1,260
12	7.25	415	6	9.04	707		May 14		12	11.92	1,160
	April 27		8	9.10	715	6	6.10	327		May 22	
6	7.40	484	12	9.20	729	6	6.12	239	8	11.20	1,030
N	7.50	497		May 5		12	6.20	339	4	10.32	891
6	7.50	497	N	9.56	782		May 15		12	9.26	737
12	7.50	497	6	9.88	830	6	6.36	358		May 23	
	April 28		12	10.15	872	8	6.44	368	8	8.20	591
6	7.48	494		May 6		N	6.80	411	N	7.76	531
N	7.40	484	6	10.22	883	6	7.53	501	4	7.40	484
6	7.30	471	N	10.24	886	12	8.20	591	12	6.80	411
12	7.18	457	6	10.23	885		May 16			May 24	
	April 29		12	10.10	864	4	8.56	639	N	6.20	339
4	7.08	445		May 7		6	8.64	651	12	5.60	267
8	6.95	429	6	9.80	818	8	8.73	663		May 25	
10	6.95	429	N	9.42	761	N	8.73	663	N	5.00	200
N	7.20	459	12	8.62	648	6	8.63	649	12	4.50	151
2	7.70	523		May 8		12	8.60	645		May 26	
4	8.00	564	N	7.83	541		May 17		N	3.95	106
6	7.75	530	12	7.16	454	8	8.54	637	12	3.52	73
8	7.54	502		May 9		8	8.30	604		May 27	
10	7.40	484	N	6.55	381	12	8.40	618	8	3.22	53
12	7.30	471	6	6.28	349		May 18		4	3.02	41
						2	8.82	676	12	2.90	35

Neches River near Neches, Tex.

Location.--Lat 31°54', long 95°26', at bridge on U. S. Highway 79, half a mile downstream from International-Great Northern (Missouri Pacific) Railroad bridge, 1 mile downstream from Walnut Creek, 4.4 miles northeast of Neches, Anderson County, and at mile 333. Datum of gage is 263.93 ft above mean sea level, datum of 1929.
Drainage area.--1,129 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used.
Maxima.--April-June 1953: Discharge, 12,700 cfs 12 noon May 19 (gage height, 17.40 ft).
1939 to March 1953: Discharge, 45,500 cfs Apr. 2, 1945 (gage height, 22.07 ft).
Flood of May 1908 reached a stage of 24.3 ft, from information by local resident.
Flood of May 1884 was probably higher.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	465	652	482	11	513	539	127	21	249	8,840	58
2	449	792	370	12	475	2,250	116	22	236	6,180	54
3	439	798	302	13	439	4,430	106	23	223	4,480	51
4	436	773	261	14	396	4,360	98	24	281	3,420	49
5	440	744	230	15	361	4,260	91	25	439	2,590	46
6	473	716	204	16	343	6,170	82	26	456	1,980	44
7	574	674	184	17	333	11,400	77	27	454	1,540	42
8	616	620	168	18	317	12,400	72	28	469	1,250	40
9	611	548	153	19	292	12,600	67	29	554	1,020	44
10	563	480	140	20	269	11,400	63	30	680	840	64
								31	-	651	-
Monthly mean discharge, in cubic feet per second									428	3,529	130
Runoff, in acre-feet									25,480	217,000	7,710
Runoff, in inches									0.42	3.60	0.13

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23			May 5		3	15.99	5,940	12	11.09	745
N	5.99	222	N	11.08	743	6	16.33	7,200		May 31	
9	5.94	218	12	11.02	732	12	16.87	9,810	6	10.83	698
12	6.02	225		May 6			May 17		N	10.53	651
	April 24		N	10.92	717	3	17.05	10,800	6	10.21	604
4	6.09	229	12	10.82	698	6	17.13	11,200	12	9.87	556
N	6.66	267		May 7		N	17.21	11,600		June 1	
6	7.42	320	N	10.68	675	12	17.28	12,000	N	9.20	480
12	8.15	378	12	10.51	650		May 18		12	8.59	414
	April 25			May 8		N	17.34	12,400		June 2	
6	8.62	422	N	10.30	621	12	17.39	12,600	N	8.07	368
N	8.88	450	12	10.05	586		May 19		12	7.62	329
6	9.00	463		May 9		N	17.40	12,700		June 3	
12	9.02	465	N	9.76	548	12	17.34	12,400	N	7.26	301
	April 26		12	9.44	509		May 20		12	6.97	278
N	8.94	454		May 10		N	17.18	11,500		June 4	
12	8.92	452	N	9.12	474	12	16.95	10,200	N	6.73	261
	April 27		6	9.07	468		May 21		12	6.51	244
N	8.94	454	12	9.06	467	N	16.69	8,880		June 5	
12	8.97	458		May 11		12	16.37	7,380	N	6.32	230
	April 28		6	9.31	493		May 22		12	6.13	215
N	9.05	466	N	9.64	533	N	16.04	6,090		June 6	
6	9.12	474	8	10.00	581	12	15.69	5,160	N	5.98	205
12	9.26	490	12	10.65	676		May 23		12	5.83	193
	April 29			May 12		N	15.35	4,440		June 7	
6	9.48	513	3	11.36	799	12	15.03	3,880	N	5.69	184
N	9.76	546	6	12.30	1,060		May 24		12	5.56	175
6	10.10	594	9	13.45	1,730	N	14.74	3,410		June 8	
12	10.36	632	N	14.20	2,600	12	14.45	2,960	N	5.43	168
	April 30		3	14.45	2,960		May 25		12	5.30	160
6	10.56	657	6	14.60	3,180	N	14.19	2,580		June 9	
N	10.73	682	12	14.94	3,730	12	13.93	2,240	N	5.18	153
6	10.85	703		May 13			May 26		12	5.06	146
12	10.96	724	6	15.33	4,400	N	13.69	1,980		June 10	
	May 1		N	15.44	4,620	12	13.46	1,740	N	4.96	140
N	11.12	553	12	15.39	4,520		May 27		12	4.83	132
12	11.24	776		May 14		N	13.23	1,530		June 11	
	May 2		N	15.30	4,350	12	12.98	1,370	N	4.73	127
N	11.34	795	12	15.22	4,200		May 28		12	4.63	121
12	11.37	802		May 15		N	12.73	1,250		June 12	
	May 3		N	15.20	4,170	12	12.46	1,120	N	4.53	116
N	11.37	802	6	15.28	4,310		May 29		12	4.43	110
12	11.31	787	12	15.41	4,560	N	12.18	1,020		June 13	
	May 4			May 16		12	11.89	929	N	4.35	106
N	11.24	774	8	15.67	5,120		May 30		12	4.28	102
12	11.15	756	N	15.85	5,550	6	11.72	886		June 14	
						N	11.54	843	N	4.20	98
						6	11.33	792	12	4.13	94

Neches River near Alto, Tex.

Location.--Lat 31°34', long 95°10', at bridge on State Highway 21, 600 ft downstream from Bowles Creek, 7½ miles southwest of Alto, Cherokee County, and at mile 274. Datum of gage is 198.29 ft above mean sea level, datum of 1929, supplementary adjustment of 1937.
Drainage area.--1,903 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 22,900 cfs 4 p.m. May 17 (gage height, 22.54 ft).
1944 to March 1953: Discharge, 42,800 cfs Apr. 4, 1945 (gage height, 26.85 ft).
Stage known since at least 1861, 28.2 ft in May 1884, from information by local residents (discharge, about 50,000 cfs).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,560	1,870	2,750	11	870	1,220	354	21	473	14,100	152
2	1,300	1,600	2,340	12	888	1,700	321	22	447	13,400	142
3	1,100	1,300	1,960	13	885	3,750	300	23	420	12,100	133
4	975	1,210	1,540	14	854	5,410	280	24	424	10,200	125
5	894	1,320	1,090	15	788	6,460	252	25	526	8,120	116
6	854	1,370	804	16	724	9,470	227	26	662	6,480	108
7	860	1,280	634	17	663	21,100	208	27	663	5,410	102
8	877	1,190	525	18	597	19,800	193	28	654	4,660	96
9	846	1,130	454	19	544	16,700	179	29	1,210	4,050	150
10	844	1,070	400	20	506	15,000	164	30	1,840	3,570	189
								31	-	3,130	-
Monthly mean discharge, in cubic feet per second									825	6,425	543
Runoff, in acre-feet									49,090	395,000	32,310
Runoff, in inches									0.48	3.89	0.32

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		12	12.52	1,380	N	22.41	22,300	12	15.67	2,570
6	6.49	409		May 6		4	22.54	22,900		June 2	
6	6.72	434	N	12.53	1,380	8	22.47	22,600	N	15.35	2,340
12	6.90	454	12	12.37	1,340	12	22.33	22,000	12	14.95	2,130
	April 25			May 7			May 18			June 3	
6	7.15	483	N	12.14	1,280	N	21.82	19,800	N	14.48	1,970
N	7.44	518	12	11.92	1,230	12	21.38	17,800	12	13.87	1,760
6	7.85	570		May 8			May 19			June 4	
12	8.15	611	N	11.72	1,190	N	21.06	16,600	N	13.13	1,540
	April 26		12	11.54	1,160	12	20.83	15,700	12	12.18	1,300
6	8.37	642		May 9			May 20			June 5	
6	8.70	688	N	11.38	1,130	N	20.65	15,000	N	11.17	1,080
12	8.74	694	12	11.21	1,090	12	20.54	14,500	12	10.23	919
	April 27			May 10			May 21			June 6	
6	8.66	682	8	11.11	1,070	N	20.44	14,100	N	9.45	798
6	8.38	643	2	11.03	1,060	12	20.36	13,800	12	8.80	702
12	8.31	633	6	11.01	1,050		May 22			June 7	
	April 28		12	11.05	1,060	N	20.27	13,400	N	8.29	631
6	8.30	632		May 11		12	20.15	12,900	12	7.85	570
N	8.34	638	6	11.44	1,140		May 23			June 8	
6	8.53	664	6	12.24	1,310	N	19.96	12,100	N	7.48	523
12	8.98	727	12	12.38	1,340	12	19.75	11,300	12	7.15	483
	April 29			May 12			May 24			June 9	
4	9.82	853	6	12.86	1,460	N	19.47	10,200	N	6.89	453
8	10.98	1,050	N	13.47	1,640	12	19.17	9,180	12	6.64	425
N	11.89	1,230	6	14.28	1,900		May 25			June 10	
6	12.97	1,490	12	15.24	2,270	N	18.85	8,090	N	6.41	400
12	13.54	1,660		May 13		12	18.55	7,140	12	6.17	374
	April 30		4	15.86	2,700		May 26			June 11	
6	13.86	1,760	8	16.77	3,530	N	18.29	6,450	N	5.98	353
6	14.40	1,940	N	17.09	3,930	12	18.07	5,880	12	5.79	334
12	14.48	1,970	12	17.63	4,860		May 27			June 12	
	May 1			May 14		N	17.87	5,390	N	5.67	322
1	14.49	1,970	6	17.82	5,280	12	17.69	4,990	12	5.55	310
6	14.45	1,960	N	17.88	5,410		May 28			June 13	
6	14.12	1,840	6	17.95	5,580	N	17.53	4,660	N	5.45	300
12	13.87	1,760	12	18.06	5,860	12	17.36	4,350	12	5.34	289
	May 2			May 15			May 29			June 14	
N	13.34	1,600	N	18.28	6,430	N	17.17	4,040	N	5.27	282
12	12.66	1,420	12	18.54	7,110	12	17.00	3,800	12	5.14	269
	May 3			May 16			May 30			June 15	
N	12.11	1,280	6	18.72	7,660	N	16.81	3,570	N	4.95	250
12	11.77	1,200	N	18.89	8,230	12	16.60	3,340	12	4.80	237
	May 4		4	19.21	9,310		May 31				
N	11.76	1,200	8	20.00	12,300	N	16.38	3,120			
12	11.94	1,240	12	20.95	16,200	12	16.16	2,930			
	May 5			May 17			June 1				
N	12.30	1,320	6	21.92	20,200	N	15.93	2,750			

Neches River near Diboll, Tex.

Location.--Lat 31°08', long 94°48', at bridge on U. S. Highway 59, 630 ft downstream from Texas & New Orleans Railroad bridge, 2.9 miles downstream from Alabama Creek, 3.8 miles south of Diboll, Angelina County, and at mile 204. Datum of gage is 134.46 ft above mean sea level, datum of 1929.
Drainage area.--2,670 sq mi.
Gage-height record.--Graph based on twice-daily wire-weight gage readings Apr. 28 to June 16, June 29, 30, and average daily gage heights during rest of period.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 21,600 cfs 8 p.m. May 19 (gage height, 16.35 ft). 1923-25, 1939 to March 1953: Discharge 49,900 cfs May 4, 1944 (gage height 18.70 ft). Stage known, about 21.0 ft, present site, in May 1884, from information by local residents (discharge, about 80,000 cfs).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	4,000	8,900	6,340	11	1,320	2,760	1,570	21	832	19,300	278
2	3,810	6,280	5,620	12	1,200	2,440	1,120	22	746	16,700	262
3	3,590	4,930	4,900	13	1,150	5,140	795	23	670	14,700	241
4	3,370	4,620	4,380	14	1,120	10,300	609	24	640	13,400	222
5	3,100	6,680	3,980	15	1,090	11,400	508	25	636	12,600	209
6	2,810	8,920	3,660	16	1,060	11,000	444	26	616	11,900	196
7	2,420	7,610	3,320	17	1,030	11,300	415	27	614	11,200	184
8	2,070	5,900	2,980	18	1,000	17,900	363	28	632	10,200	171
9	1,760	4,410	2,620	19	954	21,200	331	29	3,450	9,130	582
10	1,490	3,470	2,080	20	902	20,900	304	30	10,900	8,040	1,360
								31	-	7,160	-
Monthly mean discharge, in cubic feet per second									1,966	10,010	1,668
Runoff, in acre-feet									117,000	615,600	99,260
Runoff, in inches									0.82	4.32	0.70

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 28		12	13.90	6,540	8	16.35	21,600	12	13.36	5,240
N	6.02	612		May 8		12	16.34	21,500		June 3	
8	6.05	618	N	13.73	5,960		May 20		N	13.20	4,870
10	6.40	688	12	13.44	5,120	N	16.28	20,900	12	13.06	4,600
12	7.35	887		May 9		12	16.20	20,200		June 4	
	April 29		N	13.05	4,320		May 21		N	12.90	4,360
4	9.35	1,400	12	12.71	3,870	N	16.10	19,300	12	12.77	4,180
8	11.15	2,160		May 10		12	15.97	18,300		June 5	
2	12.48	3,580	N	12.40	3,480		May 22		N	12.63	3,980
6	13.20	4,580	12	12.05	3,060	N	15.74	16,500	12	12.49	3,800
8	13.50	5,280		May 11		12	15.60	15,400		June 6	
12	14.40	8,610	N	11.77	2,740		May 23		N	12.38	3,650
	April 30		12	11.56	2,520	N	15.50	14,700	12	12.29	3,540
6	14.82	10,600		May 12		12	15.42	14,100		June 7	
10	15.00	11,500	6	11.45	2,420		May 24		N	12.10	3,310
2	15.05	11,800	N	11.32	2,300	N	15.32	13,400	12	11.94	3,130
4	15.00	11,500	6	11.45	2,420	12	15.24	12,900		June 8	
12	14.88	10,900	12	11.74	2,700		May 25		N	11.83	3,000
	May 1			May 13		N	15.20	12,600	12	11.66	2,800
N	14.42	8,700	6	12.28	3,340	12	15.13	12,200		June 9	
12	14.10	7,300	N	13.20	4,580		May 26		N	11.52	2,640
	May 2		6	14.02	6,990	N	15.06	11,900	12	11.25	2,380
N	13.79	6,160	12	14.40	8,610	12	15.04	11,700		June 10	
12	13.57	5,480		May 14			May 27		N	10.85	2,060
	May 3		N	14.82	10,600	N	14.94	11,100	12	10.38	1,800
N	13.34	4,880	12	14.98	11,400	12	14.88	10,800		June 11	
12	13.15	4,490		May 15			May 28		N	9.80	1,580
	May 4		6	15.00	11,500	N	14.76	10,200	12	9.00	1,330
4	13.10	4,400	6	14.98	11,400	12	14.65	9,650		June 12	
8	13.12	4,440	12	14.96	11,200		May 29		N	8.24	1,120
6	13.28	4,750		May 16		N	14.55	9,180	12	7.45	929
12	13.43	5,100	N	14.91	11,000	12	14.40	8,500		June 13	
	May 5		12	14.81	10,600		May 30		N	6.76	782
N	13.90	6,540		May 17		N	14.28	8,020	12	6.28	686
12	14.39	8,560	6	14.72	10,100	12	14.18	7,630		June 14	
	May 6		N	14.79	10,500		May 31		N	5.83	599
6	14.50	9,070	12	15.39	13,900	N	14.04	7,140	12	5.57	553
10	14.51	9,120		May 18		12	13.91	6,730		June 15	
6	14.47	8,930	6	15.78	16,800		June 1		N	5.30	504
12	14.40	8,610	6	16.12	19,500	N	13.78	6,340	12	5.12	472
	May 7		12	16.21	20,300	12	13.64	5,960		June 16	
N	14.18	7,640		May 19			June 2		N	4.96	444
			N	16.34	21,500	N	13.52	5,650	12	4.80	418

Neches River near Rockland, Tex.

Location.--Lat 31°01'45", long 94°23'50", 2,100 ft upstream from Texas & New Orleans Railroad bridge, 2,200 ft downstream from bridge on U. S. Highway 69, 1 mile north of Rockland, Tyler County, 3.6 miles downstream from Billams Creek, and at mile 158. Datum of gage is 91.41 above mean sea level, datum of 1929.
Drainage area.--3,539 sq mi.
Gage-height record.--Graph based on twice-daily staff gage readings Apr. 28 to June 16, and average of daily readings Apr. 1-27, June 17-30.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 34,400 cfs, 4 p.m. May 20 (gage height, 27.70 ft).
1903 to March 1953: Discharge, 49,800 cfs May 6, 1944 (gage height, 31.84 ft).
Stage known, 34.9 ft in May 1884, from information by local residents (discharge, about 62,000 cfs).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	5,830	13,800	12,500	11	2,660	11,400	3,500	21	1,040	33,500	370
2	5,390	14,300	11,300	12	2,210	11,500	2,990	22	990	31,400	343
3	5,060	14,000	10,300	13	1,820	12,200	2,590	23	905	28,700	324
4	4,750	13,900	9,140	14	1,630	12,100	1,830	24	875	26,000	292
5	4,490	13,200	8,100	15	1,430	11,600	1,220	25	910	23,100	268
6	4,310	12,000	7,060	16	1,310	12,300	828	26	870	20,500	253
7	4,090	10,900	6,090	17	1,240	16,200	625	27	795	18,400	239
8	3,830	10,000	5,310	18	1,180	26,800	525	28	1,090	17,100	222
9	3,500	9,580	4,840	19	1,120	32,300	460	29	10,700	15,900	536
10	3,080	9,440	4,040	20	1,100	34,200	414	30	13,700	14,700	828
								31	-	13,600	-
Monthly mean discharge, in cubic feet per second									3,064	17,570	3,238
Runoff, in thousand acre-feet									182.3	1,080	192.7
Runoff, in inches									0.97	5.72	1.02

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 28			May 10		N	27.69	34,400	12	15.97	9,680
6	1.91	755	N	15.60	9,420	4	27.70	34,400		June 4	
N	1.98	790	6	15.56	9,400	12	27.68	34,300	N	15.18	9,130
6	2.22	910	12	15.72	9,500		May 21		12	14.48	8,620
8	2.65	1,120		May 11		6	27.59	34,000		June 5	
10	5.00	2,400	4	16.45	10,100	N	27.48	33,500	N	13.71	8,100
12	7.50	3,980	8	18.40	11,700	6	27.36	33,100	12	12.98	7,590
	April 29		N	18.75	12,000	12	27.22	32,600		June 6	
6	13.90	8,230	6	18.90	12,100		May 22		N	12.22	7,050
N	18.60	11,800	12	18.74	12,000	N	26.90	31,400	12	11.47	6,560
6	20.28	13,600		May 12		12	26.54	30,100		June 7	
12	20.60	14,000	N	18.17	11,400		May 23		N	10.72	6,070
	April 30		6	17.89	11,200	N	28.15	28,700	12	10.11	5,670
2	20.64	14,100	12	18.01	11,300	12	25.77	27,400		June 8	
N	20.42	13,800		May 13			May 24		N	9.54	5,300
12	20.02	13,200	4	18.50	11,800	N	25.35	25,900	12	9.02	4,960
	May 1		8	19.00	12,200	12	24.97	24,600		June 9	
N	20.45	13,800	4	19.36	12,600		May 25		N	8.52	4,640
12	20.77	14,300	8	19.36	12,600	N	24.53	23,100	12	8.04	4,330
	May 2		12	19.29	12,500	12	24.11	21,700		June 10	
4	20.82	14,300		May 14			May 26		N	7.59	4,030
N	20.79	14,300	N	18.87	12,100	N	23.70	20,500	12	7.18	3,770
12	20.71	14,200	12	18.55	11,800	12	23.29	19,300		June 11	
	May 3			May 15			May 27		N	6.78	3,510
N	20.59	14,000	N	18.30	11,600	N	22.92	18,300	12	6.32	3,210
12	20.38	13,700	8	18.18	11,500	12	22.62	17,700		June 12	
	May 4		12	18.23	11,500		May 28		8	6.02	3,010
N	20.55	14,000		May 16		N	22.32	17,100	4	5.87	2,920
8	20.60	14,000	N	19.01	12,200	12	22.01	16,400	12	5.75	2,850
12	20.52	13,900	12	20.10	13,300		May 29			June 13	
	May 5			May 17		N	21.70	15,900	6	5.62	2,770
N	20.02	13,200	N	21.14	14,900	12	21.39	15,300	6	5.06	2,440
12	19.36	12,600	6	22.85	18,200		May 30		12	4.72	2,230
	May 6		12	24.12	21,700	N	21.02	14,600		June 14	
N	18.70	11,900		May 18		12	20.70	14,200	N	4.00	1,820
12	18.06	11,400	6	25.02	24,800		May 31		12	3.28	1,440
	May 7		N	25.73	27,300	N	20.28	13,600		June 15	
N	17.44	10,900	6	26.24	29,100	12	19.81	13,000	6	3.02	1,310
12	16.86	10,400	12	26.61	30,400		June 1		6	2.64	1,120
	May 8			May 19		N	19.28	12,500	12	2.40	1,000
N	16.35	9,980	6	28.92	31,500	12	18.68	11,900		June 16	
12	16.02	9,720	N	27.17	32,400		June 2		6	2.14	870
	May 9		6	27.37	33,200	N	18.03	11,300	N	2.03	815
N	15.82	9,570	12	27.52	33,600	12	17.34	10,800	12	1.84	720
12	15.68	9,480		May 20			June 3				
			6	27.63	34,100	N	16.68	10,300			

Lake Tyler near Whitehouse, Tex.

Location.--Lat 32°14'30", long 95°10'30", at intake tower of pumphouse, 2.0 miles north of Whitehouse Dam on Prairie Creek, 3.2 miles northeast of Whitehouse, Smith County, and 4.3 miles upstream from Mud Creek. Datum of gage is at mean sea level (city of Tyler benchmark).
Drainage area.--69 sq mi, approximately.
Gage-height record.--Water-stage recorder graph.
Maxima.--April-June 1953: Contents, 45,320 acre-ft 11 p.m. May 15 to 2 a.m. May 16 (elevation, 376.3 ft).
1949 to March 1953: Contents, 44,840 acre-ft Feb. 12, 1952 (elevation, 376.1 ft).
Remarks.--Lake is formed by rolled earth-fill dam, 4,708 ft long. Spillway is concrete flume, 200 ft wide, located about 800 ft to left of dam. Storage began Jan. 8, 1949, and dam completed May 13, 1949. Total capacity, 43,400 acre-ft (elevation, 375.5 ft, top of spillway). Usable capacity, 39,000 acre-ft between elevations 375.5 and 350.0 ft (bottom of lowest sluice gates). Dead storage, 4,400 acre-ft. Water used for municipal supply for city of Tyler.

Contents, in acre-feet, at 12 p.m. of indicated day, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	43,160	43,640	43,160	11	43,400	43,640	42,680	21	42,920	43,640	41,980
2	43,160	43,400	43,160	12	43,400	44,360	42,680	22	42,920	43,640	41,760
3	43,160	43,400	43,160	13	43,160	44,360	42,440	23	43,160	43,640	41,760
4	43,160	43,400	42,920	14	43,160	44,600	42,440	24	43,640	43,640	41,760
5	43,400	43,400	42,920	15	43,160	45,320	42,440	25	43,640	43,400	41,540
6	43,400	43,400	42,920	16	43,160	45,080	42,200	26	43,400	43,400	41,540
7	43,400	43,160	42,920	17	43,160	44,600	42,200	27	43,400	43,400	41,540
8	43,400	43,160	42,680	18	42,920	44,360	42,200	28	43,640	43,400	41,540
9	43,400	43,160	42,680	19	42,920	44,120	42,200	29	43,640	43,160	41,760
10	43,400	43,400	42,680	20	42,920	43,880	41,980	30	43,640	43,160	41,760
								31	-	43,160	-
Contents at end of month									43,640	43,160	41,760
Change in contents during month									+480	-480	-1,400

Mud Creek near Jacksonville, Tex.

Location.--Lat 31°58'40", long 95°09'40", at bridge on U. S. Highway 79, 0.6 mile downstream from Caney Creek, 3.9 miles downstream from another Caney Creek, 4 miles downstream from International-Great Northern (Missouri Pacific) Railroad bridge, and 6.9 miles east of Jacksonville, Cherokee County. Datum of gage is 271.64 ft above mean sea level, datum of 1929.
Drainage area.--382 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Shifting-control method used Apr. 1-28, May 28 to June 29.
Maxima.--April-June 1953: Discharge, 6,950 cfs 8 a.m. May 17 (gage height 10.05 ft). 1939 to March 1953: Discharge, 23,400 cfs May 3, 1944 (gage height, 14.09 ft). Stage known occurred in May 1884; maximum stage known since May 1884, about 20 ft in May 1908 and December 1913, from information by local residents.
Remarks.--Flow slightly regulated by Lake Tyler on Prairie Creek.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	169	542	80	11	163	658	25	21	72	1,260	7.3
2	154	487	67	12	147	4,160	23	22	63	882	6.1
3	149	488	58	13	138	3,760	21	23	59	658	4.7
4	138	480	50	14	153	4,010	20	24	187	486	3.7
5	128	356	44	15	154	4,430	18	25	297	356	2.4
6	194	224	39	16	132	4,720	16	26	265	260	1.5
7	218	174	36	17	114	6,340	14	27	273	196	1.6
8	195	141	33	18	97	4,320	12	28	311	160	1.0
9	206	113	30	19	78	2,870	10	29	1,050	135	18
10	197	165	28	20	75	1,880	8.7	30	1,000	114	43
								31	-	95	-
Monthly mean discharge, in cubic feet per second									219	1,449	24.1
Runoff, in acre-feet									15,040	89,100	1,430
Runoff, in inches									0.64	4.37	0.07

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 23		N	6.76	496	4	8.51	3,120	12	5.44	221
N	3.02	58	12	6.66	442	8	8.61	3,320		May 27	
10	3.00	57		May 5		N	8.90	3,940	N	5.14	194
12	3.18	67	N	6.40	355	6	9.31	4,910	12	4.88	175
	April 24		12	5.90	271	9	9.37	5,060		May 28	
2	3.28	73		May 6		12	9.32	4,930	N	4.68	159
6	3.98	121	N	5.40	217		May 15		12	4.50	147
8	4.17	134	12	5.10	191	N	9.02	4,210		May 29	
N	5.17	204		May 7		6	9.03	4,230	N	4.36	135
4	5.65	249	N	4.89	175	12	9.15	4,520	12	4.20	124
12	5.96	283	12	4.63	157		May 16			May 30	
	April 25			May 8		2	9.17	4,570	N	4.07	114
6	6.10	301	N	4.40	141	6	9.13	4,470	12	3.92	103
N	6.15	309	12	4.16	124	N	8.98	4,120		May 31	
6	6.08	298		May 9		3	8.91	3,960	N	3.82	95
12	5.94	279	N	4.00	113	6	9.22	4,690	12	3.69	86
	April 26		12	3.85	102	10	9.85	6,380		June 1	
N	5.77	261		May 10		12	9.97	6,720	N	3.66	82
6	5.75	259	N	3.74	95		May 17		12	3.52	72
12	5.78	263	2	3.72	93	4	10.00	6,800		June 2	
	April 27		4	3.95	110	8	10.05	6,950	N	3.46	67
N	5.88	273	6	4.83	171	N	9.93	6,600	12	3.38	63
12	5.96	283	8	5.98	281	12	9.40	5,140		June 3	
	April 28		10	6.58	408		May 18		N	3.32	58
N	6.04	292	12	6.86	562	N	9.06	4,300	12	3.24	54
4	6.10	301		May 11		12	8.72	3,540		June 4	
6	6.16	310	4	7.03	700		May 19		N	3.18	50
10	6.50	385	7	7.08	750	N	8.36	2,830	12	3.10	47
12	6.65	438	N	7.00	670	12	8.05	2,280		June 5	
	April 29		6	6.85	555		May 20		N	3.05	44
4	6.96	638	10	6.82	534	N	7.80	1,850	12	2.97	41
6	7.13	809	12	7.37	1,160	12	7.60	1,530		June 6	
N	7.37	1,160		May 12			May 21		N	2.92	39
6	7.51	1,390	2	7.56	1,470	N	7.42	1,240	12	2.85	37
12	7.43	1,260	4	8.38	2,860	12	7.28	1,020		June 7	
	April 30		8	9.24	4,740		May 22		N	2.82	36
N	7.28	1,020	10	9.35	5,010	N	7.18	874	12	2.76	34
12	7.03	700	N	9.42	5,190	12	7.09	760		June 8	
	May 1		2	9.40	5,140		May 23		N	2.74	33
N	6.77	502	4	9.37	5,060	N	6.98	654	12	2.69	31
12	6.71	466	8	9.18	4,590	12	6.86	562		June 9	
	May 2		12	9.06	4,300		May 24		N	2.66	30
N	6.75	490		May 13		N	6.74	484	12	2.61	29
12	6.77	502	6	8.95	4,050	12	6.60	415		June 10	
	May 3		N	8.87	3,870		May 25		N	2.59	28
N	6.75	490	6	8.65	3,400	N	6.40	355	12	2.54	26
12	6.72	472	12	8.50	3,100	12	6.13	301			
	May 4			May 14			May 26				
2	6.75	490	2	8.49	3,080	N	5.81	260			

Angelina River near Lufkin, Tex.

Location.--Lat 31°27'40", long 94°43'35", at bridge on U. S. Highway 59, 400 ft upstream from Procella Creek, half a mile downstream from Little Loco Bayou, 1.5 miles upstream from Texas & New Orleans Railroad bridge, and 8 miles north of Lufkin, Angelina County. Datum of gage is 164.72 ft above mean sea level, datum of 1929.

Drainage area.--1,575 sq mi.

Gage-height record.--Water-stage recorder graph.

Discharge record.--Stage-discharge relation defined by current-meter measurements.

Maxima.--April-June 1953: Discharge, 22,000 cfs 3-6 a.m. May 19 (gage height, 16.48 ft).

1923-34, 1939 to March 1953: Discharge, 38,200 cfs Feb. 24, 1932; gage height, 18.55 ft May 7, 1944.

Stage known, about 26.5 ft in May 1884, from information by local residents.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	1,550	3,390	2,510	11	706	3,440	342	21	446	20,200	170
2	1,320	3,310	1,980	12	720	5,140	320	22	413	18,200	155
3	1,140	3,020	1,450	13	724	6,680	303	23	377	15,200	142
4	982	5,300	980	14	702	6,750	290	24	376	12,000	129
5	898	5,860	717	15	664	7,190	272	25	427	9,310	118
6	856	5,110	574	16	615	7,720	250	26	454	7,260	108
7	822	4,980	515	17	591	15,600	230	27	485	5,760	98
8	783	4,540	467	18	555	21,600	214	28	734	4,720	93
9	748	4,070	418	19	517	21,700	198	29	5,880	4,010	278
10	713	3,680	375	20	482	21,100	184	30	4,360	3,500	772
								31	-	3,040	-
Monthly mean discharge, in cubic feet per second									1,001	8,496	488
Runoff, in acre-feet									59,580	522,400	29,060
Runoff, in inches									0.71	6.22	0.35

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 27		12	11.66	5,070	12	16.14	20,700	12	9.89	2,240
N	6.39	484		May 7			May 18			June 2	
12	6.52	512	N	11.64	5,010	6	16.33	21,400	N	9.59	1,980
	April 28		12	11.57	4,820	N	16.40	21,700	12	9.26	1,730
11	6.66	544		May 8		12	16.46	21,900		June 3	
N	6.79	582	N	11.45	4,520		May 19		N	8.84	1,450
6	7.05	668	12	11.35	4,290	3	16.48	22,000	12	8.34	1,180
9	8.13	1,080		May 9		6	16.48	22,000		June 4	
11	9.25	1,720	N	11.24	4,060	N	16.45	21,900	N	7.88	962
12	10.10	2,440	12	11.14	3,870	12	16.35	21,100	12	7.49	822
	April 29			May 10			May 20			June 5	
2	10.90	3,480	N	11.01	3,660	N	16.27	21,200	N	7.17	710
6	11.54	4,740	12	10.92	3,510	12	16.17	20,800	12	6.93	626
N	12.34	7,260		May 11			May 21			June 6	
2	12.39	7,430	N	10.82	3,370	N	16.01	20,200	N	6.75	570
6	12.30	7,120	6	10.77	3,300	12	15.77	19,400	12	6.61	532
12	11.93	5,880	12	11.11	3,820		May 22			June 7	
	April 30			May 12		N	15.44	18,200	N	6.54	517
N	11.28	4,140	6	11.24	4,060	12	15.05	16,800	12	6.43	493
6	11.01	3,660	N	11.54	4,740		May 23			June 8	
12	10.84	3,400	3	11.83	5,570	N	14.60	15,200	N	6.32	468
	May 1		6	12.03	6,200	12	14.15	13,500	12	6.19	440
6	10.81	3,350	9	12.21	6,810		May 24			June 9	
N	10.84	3,400	12	12.25	6,950	N	13.71	12,000	N	6.09	418
12	10.85	3,410		May 13		12	13.30	10,600	12	5.98	394
	May 2		6	12.21	6,810		May 25			June 10	
N	10.79	3,330	N	12.10	6,440	N	12.92	9,230	N	5.88	374
12	10.68	3,170	6	12.16	6,640	12	12.61	8,170	12	5.79	358
	May 3		12	12.17	6,680		May 26			June 11	
N	10.56	3,000		May 14		N	12.33	7,220	N	5.69	342
11	10.48	2,890	N	12.15	6,610	12	12.10	6,440	12	5.60	328
12	10.56	3,000	12	12.29	7,090		May 27			June 12	
	May 4			May 15		N	11.88	5,720	N	5.54	320
3	10.93	3,530	N	12.33	7,220	12	11.70	5,180	12	5.48	311
6	11.39	4,380	12	12.33	7,220		May 28			June 13	
9	11.86	5,660		May 16		N	11.52	4,690	N	5.42	303
N	11.99	6,070	6	12.33	7,220	12	11.37	4,330	12	5.36	295
3	12.03	6,200	12	12.40	7,460		May 29			June 14	
6	12.00	6,100	6	12.59	8,110	N	11.20	3,980	N	5.32	290
9	11.95	5,940	12	12.85	8,990	12	11.06	3,740	12	5.27	283
12	11.97	6,000		May 17			May 30			June 15	
	May 5		3	13.08	9,780	N	10.90	3,480	N	5.18	273
6	12.00	6,100	6	13.65	11,800	12	10.76	3,280	12	5.07	261
N	11.96	5,970	9	14.29	14,000		May 31			June 16	
12	11.77	5,390	N	14.92	16,300	N	10.59	3,050	N	4.96	250
	May 6		3	15.45	18,200	12	10.40	2,780	12	4.84	239
6	11.69	5,150	6	15.78	19,400		June 1				
N	11.64	5,010	9	16.00	20,200	N	10.17	2,510			

Attoyac Bayou near Chireno, Tex.

Location.--Lat 31°30'15", long 94°18'15", at bridge on State Highway 21, 3 miles northeast of Chireno, Nacogdoches County, and 7 miles downstream from Arenoso Creek. Datum of gage is 169.95 ft above mean sea level, datum of 1929.
Drainage area.--502 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 16,800 cfs 10 a.m. May 18 (gage height, 22.08 ft).
1924-25, 1939 to March 1953: Discharge, 31,900 cfs Nov. 24, 1940 (gage height, 25.97 ft).
Stage known, 29.9 ft in June 1912 (result of local storm), from information by local residents.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	386	7,190	270	11	211	1,130	140	21	114	2,500	76
2	374	3,460	247	12	188	974	133	22	111	1,840	72
3	333	2,190	229	13	188	8,040	125	23	108	1,490	68
4	293	4,120	212	14	181	11,500	117	24	125	1,270	64
5	261	6,910	196	15	166	6,880	110	25	206	1,100	61
6	250	4,170	181	16	159	5,080	105	26	221	921	59
7	258	2,630	169	17	148	7,900	98	27	182	686	59
8	247	1,960	159	18	139	15,200	93	28	220	464	58
9	242	1,580	152	19	130	7,830	87	29	6,790	368	76
10	240	1,320	146	20	121	3,810	82	30	11,700	324	139
								31	-	294	-
Monthly mean discharge, in cubic feet per second									810	3,714	126
Runoff, in acre-feet									48,180	228,400	7,500
Runoff, in inches									1.80	8.53	0.28

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 27		4	16.89	2,550	9	20.81	12,500	12	15.44	1,370
6	6.15	188	8	17.53	3,460	N	20.71	12,400		May 24	
N	6.04	181	N	18.09	4,580	8	20.30	10,900	N	15.18	1,270
12	5.82	167	4	18.23	4,920	12	19.82	9,660	12	14.90	1,180
	April 28		8	18.25	4,980		May 15			May 25	
6	5.76	164	12	18.85	6,480	6	19.37	8,010	N	14.61	1,100
N	5.73	162		May 5		N	19.00	6,900	12	14.23	1,010
3	5.77	164	3	19.22	7,560	12	18.60	5,850		May 26	
6	5.83	168	5	19.35	7,950		May 16		N	13.76	927
8	6.17	190	7	19.36	7,980	6	18.37	5,280	12	13.04	821
10	9.07	416	4	18.88	6,550	N	18.15	4,720		May 27	
11	11.95	690	12	18.44	5,450	2	18.10	4,600	N	11.93	688
12	13.70	917		May 6		5	18.14	4,700	12	10.53	548
	April 29		N	17.85	4,050	7	18.28	5,050		May 28	
1	14.93	1,180	12	17.32	3,140	9	18.34	5,200	N	9.50	455
2	16.35	1,940		May 7		12	18.28	5,050	12	8.85	396
3	17.18	2,940	N	16.92	2,590		May 17			May 29	
5	17.95	4,250	12	16.62	2,210	3	18.22	4,900	N	8.49	367
7	18.43	5,420		May 8		6	18.20	4,850	12	8.17	342
9	18.65	5,980	N	16.34	1,940	9	18.33	5,180		May 30	
11	18.63	5,920	12	16.07	1,730	11	18.63	5,920	N	7.96	325
4	19.47	8,310		May 9		2	19.45	8,250	12	7.73	306
6	19.89	9,570	N	15.83	1,570	8	20.65	12,000		May 31	
12	20.63	11,900	12	15.57	1,430	12	21.24	13,900	N	7.59	295
	April 30			May 10			May 18		12	7.41	281
2	20.81	12,500	N	15.32	1,320	4	21.73	15,600		June 1	
5	20.86	12,700	12	15.03	1,220	8	22.05	16,700	N	7.29	271
9	20.79	12,400		May 11		10	22.08	16,800	12	7.11	257
3	20.56	11,700	N	14.73	1,130	N	22.02	16,600		June 2	
8	20.26	10,700	12	14.32	1,030	4	21.70	15,500	N	6.99	247
12	20.00	9,900		May 12		8	21.22	13,800	12	6.83	236
	May 1		N	13.80	933	12	20.66	12,000		June 3	
6	19.53	8,490	4	13.57	896		May 19		N	6.74	230
8	18.58	5,800	6	13.71	919	4	20.12	10,300	12	6.60	220
12	18.16	4,750	8	14.07	978	N	19.16	7,380		June 4	
	May 2		12	14.79	1,140	6	18.63	5,920	N	6.51	214
6	17.77	3,890		May 13		12	18.24	4,950	12	6.35	202
N	17.45	3,340	3	15.27	1,300		May 20			June 5	
12	16.91	2,570	4	15.90	1,610	6	17.93	4,210	N	6.27	197
	May 3		5	17.25	3,040	6	17.43	3,300	12	6.13	187
6	16.70	2,310	6	18.25	4,980	12	17.21	2,980		June 6	
3	16.40	1,990	7	18.82	6,400		May 21		N	6.06	182
6	16.33	1,930	9	19.40	8,100	N	16.83	2,470	12	5.94	174
7	16.50	2,090	N	20.00	9,900	12	16.50	2,090		June 7	
9	16.56	2,150	4	20.39	11,100		May 22		N	5.87	170
12	16.55	2,140	12	20.65	12,000	N	16.20	1,820	12	5.75	163
	May 4			May 14		12	15.92	1,620			
2	16.58	2,170	4	20.75	12,300		May 23				
						N	15.68	1,480			

Angelina River near Zavalla, Tex.

Location.--Lat 31°13', long 94°18', at bridge on State Highway 147, just downstream from Harvey Bayou, 3 miles downstream from Attoyac Bayou, and 8½ miles northeast of Zavalla, Angelina County. Datum of gage is 104.48 ft above mean sea level, datum of 1929.
Drainage area.--2,803 sq mi.
Gage-height record.--Water-stage recorder graph except for period May 25-27 for which a graph was drawn on basis of recorded range in stage and records for nearby stations.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 37,300 cfs 6 p.m. May 18 (gage height, 27.72 ft).
1951 to March 1953: Discharge, 19,000 cfs Mar. 16, 1953 (gage height, 25.27 ft).

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	5,700	24,100	8,690	11	1,360	10,600	878	21	856	30,700	415
2	5,000	23,300	7,690	12	1,290	9,650	810	22	809	26,900	386
3	4,310	17,900	6,680	13	1,310	11,300	737	23	758	24,700	358
4	3,600	14,200	5,650	14	1,270	11,500	700	24	732	22,800	335
5	2,940	12,500	4,720	15	1,220	16,700	660	25	748	20,700	308
6	2,340	15,300	3,810	16	1,160	23,400	622	26	804	18,500	286
7	1,960	17,000	2,840	17	1,110	23,400	581	27	855	16,500	266
8	1,740	15,000	1,790	18	1,040	35,700	538	28	879	14,600	251
9	1,580	12,900	1,240	19	970	36,700	495	29	5,870	12,800	252
10	1,460	11,500	1,010	20	913	35,400	453	30	12,400	11,400	313
								31	-	9,920	-
Monthly mean discharge, in cubic feet per second									2,233	18,950	1,792
Runoff, in thousand acre-feet									132.9	1,165	106.6
Runoff, in inches									0.89	7.80	0.71

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 28			May 7		2	27.69	37,100	6	20.96	8,370
N	5.29	845	6	24.98	17,400	6	27.72	37,300	12	20.68	8,140
2	5.29	845	N	24.93	17,200	10	27.70	37,200		June 2	
3	5.42	880	12	24.70	16,200	12	27.68	37,000	6	20.41	7,930
7	5.49	899		May 8			May 19		N	20.12	7,700
11	5.79	981	N	24.39	14,900	N	27.63	36,500	12	19.50	7,200
12	6.22	1,100	12	24.07	13,800	12	27.65	36,700		June 3	
	April 29			May 9			May 20		N	18.83	6,680
4	9.65	2,230	N	23.72	12,900	6	27.62	36,400	12	18.08	6,160
8	15.90	4,950	12	23.41	12,100	N	27.54	35,600		June 4	
N	18.90	6,730		May 10		12	27.29	33,300	6	17.68	5,890
4	20.41	7,930	N	23.08	11,500		May 21		N	17.28	5,650
6	20.78	8,220	10	22.82	11,000	N	27.01	30,600	6	16.81	5,400
10	21.18	8,620	12	22.86	11,000	6	26.87	29,500	12	16.36	5,180
12	21.28	8,740		May 11		12	26.75	28,500		June 5	
	April 30		8	22.76	10,900		May 22		N	15.41	4,720
4	21.45	8,940	N	22.65	10,700	6	26.64	27,600	12	14.44	4,250
8	21.89	9,470	12	22.28	10,000	N	26.55	26,900		June 6	
N	22.78	10,900		May 12		6	26.46	26,200	N	13.50	3,810
4	23.98	13,500	N	21.90	9,480	12	26.38	25,600	12	12.50	3,360
8	24.89	17,000	6	21.72	9,260		May 23			June 7	
12	25.52	20,100	8	22.00	9,600	N	26.24	24,700	N	11.32	2,860
	May 1		12	22.40	10,200	12	26.11	23,800	12	9.75	2,260
4	25.91	22,500		May 13			May 24			June 8	
8	26.13	23,900	8	22.99	11,300	N	25.97	22,800	8	8.72	1,900
4	26.33	25,300	N	23.11	11,500	12	25.82	21,900	4	7.94	1,630
8	26.34	25,400	6	23.16	11,600		May 25		12	7.35	1,440
12	26.32	25,200	12	23.11	11,500	N	25.61	20,700		June 9	
	May 2			May 14		12	25.42	19,600	6	6.98	1,320
6	26.22	24,500	N	23.03	11,400		May 26		N	6.67	1,230
N	26.07	23,500	6	23.09	11,500	N	25.20	18,500	6	6.40	1,150
6	25.86	22,200	12	23.37	12,000	12	25.00	17,500	12	6.20	1,100
12	25.60	20,600		May 15			May 27			June 10	
	May 3		N	24.71	16,200	N	24.78	16,500	N	5.86	1,000
N	25.07	17,800	12	25.92	22,500	12	24.54	15,500	12	5.61	932
12	24.55	15,500		May 16			May 28			June 11	
	May 4		4	26.10	23,700	N	24.28	14,600	N	5.39	872
N	24.14	14,100	6	26.13	23,900	12	24.00	13,600	6	5.31	851
12	23.79	13,100	11	26.13	24,000		May 29		12	5.27	840
	May 5		2	26.11	23,800	N	23.71	12,800		June 12	
N	23.51	12,300	12	25.87	22,200	12	23.37	12,000	6	5.19	819
4	23.47	12,200		May 17			May 30		N	5.16	812
8	23.51	12,300	10	25.58	20,500	N	23.03	11,400	12	5.05	783
12	23.68	12,800	11	25.63	20,800	12	22.63	10,600		June 13	
	May 6		2	25.63	20,800		May 31		6	4.88	740
N	24.53	15,400	9	26.82	29,100	N	22.19	9,900	N	4.85	732
4	24.73	16,300	12	27.12	31,600	12	21.73	9,280	12	4.80	720
8	24.86	16,900		May 18			June 1				
12	24.93	17,200	10	27.58	36,000	6	21.50	9,000			

Dam B Reservoir at Town Bluff, Tex.

Location.--Lat 30°47'47", long 94°10'52", 560 ft upstream from outlet structure of Dam B on Neches River, about 0.4 mile north of Town Bluff, Tyler County, and at mile 114. Datum of gage is at mean sea level, datum of 1929, Galveston-Houston supplementary adjustment.
Drainage area.--7,407 sq mi.
Gage-height record.--Water-stage recorder graph.
Maxima.--April-June 1953: Contents, 128,400 acre-ft 4 a.m. May 22 (elevation, 85.21 ft).
1951 to March 1953: Contents, 105,837 acre-ft Mar. 18, 1952 (elevation 83.81 ft).
Remarks.--Reservoir is formed by earth-fill dam with a concrete section having six 40- by 35-ft taintor gates. Total length of dam, 6,867 ft. Capacity, 124,700 acre-ft; elevations 50.0 ft (sill, 6 taintor gates) and 85.0 ft (uncontrolled spillway). There is a 6,100 ft uncontrolled emergency spillway on left bank. Capacity of service spillway 80,000 cfs with pool level 85 ft. Dam completed in April 1951 and storage begun Apr. 16, 1951. Water used for industrial, municipal and irrigation supplies. Records furnished by Corps of Engineers.

Contents, in acre-feet, at 8 a.m. of indicated day, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	10,250	88,100	62,710	11	780	59,230	94,250	21	13,340	126,300	95,070
2	7,570	85,270	64,140	12	642	57,880	97,020	22	16,540	128,100	94,940
3	5,210	84,760	69,240	13	544	63,220	98,280	23	19,320	121,700	94,940
4	3,610	85,650	69,240	14	456	66,760	96,320	24	22,100	114,400	94,660
5	2,570	85,010	72,120	15	413	68,150	92,070	25	27,180	103,300	93,980
6	1,990	79,820	70,120	16	421	68,690	92,480	26	31,430	91,800	93,840
7	1,590	67,080	81,280	17	319	70,340	93,430	27	34,740	82,010	93,560
8	1,310	63,220	92,750	18	3,460	78,610	93,980	28	37,670	72,710	93,980
9	1,110	63,020	96,040	19	6,860	92,210	94,520	29	73,020	64,770	95,620
10	934	62,710	93,560	20	10,290	113,200	94,800	30	90,740	57,970	98,990
								31	-	54,850	-
Contents at end of month									90,740	54,850	98,990
Change in contents during month									+77,860	-35,890	+44,140

Elevation, in feet, and contents, in acre-feet, at indicated time, 1953

Hour	Elevation	Contents	Hour	Elevation	Contents	Hour	Elevation	Contents	Hour	Elevation	Contents
	April 17			May 4			May 17		12	80.87	68,260
N	61.00	990	10	82.47	87,190	12	80.50	64,350		June 3	
12	65.13	2,580	6	82.40	86,290		May 18		N	80.98	69,460
	April 18		12	82.36	85,780	12	81.50	75,310	3	81.06	70,340
N	67.53	4,200		May 5			May 19		12	81.05	70,220
12	69.22	5,860	12	82.05	81,890	12	83.85	106,400		June 4	
	April 19			May 6			May 20		N	81.00	69,680
N	70.48	7,620	N	81.82	79,090	N	84.48	116,200	6	81.06	70,340
12	71.36	9,250	5	81.68	77,420	12	84.90	123,000	12	81.19	71,780
	April 20		6	81.50	75,310		May 21			June 5	
12	72.60	12,350	12	81.15	71,330	12	85.20	128,200	N	81.15	71,330
	April 21			May 7			May 22		6	81.08	70,560
12	73.52	15,540	N	80.62	65,600	4	85.21	128,400	12	81.10	70,780
	April 22		3	80.52	64,560	N	85.15	127,300		June 6	
12	74.18	18,310	12	80.52	64,560	12	85.00	124,700	12	81.75	78,250
	April 23			May 8			May 23			June 7	
12	74.76	21,070	N	80.38	63,120	12	84.56	117,500	N	82.12	82,760
	April 24		4	80.30	62,300		May 24		12	82.59	88,750
N	75.20	23,370	12	80.42	63,530	12	83.88	106,900		June 8	
12	75.62	25,720		May 9			May 25		N	83.00	94,250
	April 25		N	80.43	63,630	12	83.10	95,620	2	83.07	95,210
12	76.35	30,140	12	80.38	63,120		May 26		12	83.15	96,320
	April 26			May 10		12	82.30	85,010		June 9	
12	76.88	33,640	12	80.13	60,600		May 27		N	83.10	95,620
	April 27			May 11		12	81.53	75,660	6	83.02	94,520
12	77.34	36,870	N	79.88	58,160		May 28		12	83.00	94,250
	April 28		4	79.82	57,590	12	80.78	67,300		June 10	
N	77.50	38,040	12	79.92	58,550		May 29		N	82.92	93,160
3	77.70	39,530		May 12		12	80.08	60,110	6	82.90	92,880
10	78.05	42,220	N	79.92	58,550		May 30		12	82.94	93,430
12	78.65	47,100	6	80.12	60,500	N	79.72	56,640		June 11	
	April 29		7	80.30	62,300	3	79.67	56,160	12	83.14	96,180
N	82.20	83,750	12	80.27	62,000	4	79.76	57,020		June 12	
6	82.70	90,200		May 13		12	79.69	56,350	N	83.20	97,020
12	82.83	91,940	12	80.65	65,920		May 31		3	83.28	98,140
	April 30			May 14		9	79.88	58,160	12	83.27	98,000
12	82.52	87,840	12	80.83	67,830	4	80.22	61,500		June 13	
	May 1			May 15		12	80.34	62,710	12	83.20	97,020
12	82.40	86,290	12	80.90	68,590		June 1			June 14	
	May 2			May 16		N	80.42	63,530	12	82.94	93,430
12	82.33	85,400	N	80.90	68,590	6	80.55	64,870		June 15	
	May 3		4	80.84	67,940	12	80.55	64,870	N	82.82	91,800
12	82.17	83,380	12	80.93	68,910		June 2		12	82.86	92,340
						N	80.54	64,770		June 16	
									12	82.90	92,880

Neches River at Town Bluff, Tex.

Location.--Lat 30°47'36", long 94°10'28", about 2,000 ft downstream from Dam B, half a mile northeast of Town Bluff, Tyler County, about 8 miles downstream from Wolf Creek, and at mile 113. Datum of gage is at mean sea level, datum of 1929, Galveston-Houston supplementary adjustment.
Drainage area.--7,407 sq mi.
Gage-height record.--Water-stage recorder graph except for periods April 17-28 and May 2 to June 30 for which a graph was drawn on basis of generally twice-daily reading of staff gage and record of gate operations at Dam B furnished by Corps of Engineers. Gage-height record doubtful June 20-30.
Discharge record.--Stage-discharge relation defined by current-meter measurements. Discharge for period of doubtful gage-height record estimated on basis of records of gate operations at Dam B and station at Evadale.
Maxima.--April-June 1953: Discharge, 90,900 cfs 12 p.m. May 21 to 6 a.m. May 22 (gage height, 82.85 ft).
1951 to March 1953: Discharge, 22,400 cfs March 22, 1953 (gage height, 73.71 ft). Stage known, about 86.8 ft in May 1884 (discharge about 120,000 cfs), from information by Corps of Engineers.
Remarks.--Flow regulated by Dam B Reservoir up to a reservoir stage of 85.0 ft.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	18,600	38,000	29,100	11	5,570	28,500	5,240	21	980	90,100	1,300
2	26,700	38,100	25,900	12	5,000	27,700	4,520	22	962	89,800	1,300
3	14,400	36,900	23,200	13	4,540	27,800	5,320	23	1,010	85,100	1,300
4	12,200	42,000	21,600	14	4,090	27,700	6,290	24	890	78,900	1,200
5	10,300	45,200	19,800	15	3,700	27,800	4,470	25	430	72,000	1,200
6	9,160	43,000	15,000	16	3,520	28,400	1,950	26	386	64,900	1,100
7	8,200	41,100	8,960	17	2,380	33,300	1,820	27	439	57,800	1,100
8	7,420	33,800	8,370	18	1,520	53,600	1,670	28	472	52,200	1,400
9	6,790	30,300	9,740	19	1,160	68,900	1,530	29	16,400	45,200	1,600
10	6,210	29,400	8,780	20	1,000	81,200	1,400	30	37,500	40,100	1,900
								31	-	33,400	-
Monthly mean discharge, in cubic feet per second									6,731	48,140	7,269
Runoff, in thousand acre-feet									400.5	2,960	432.5
Runoff, in inches									1.01	7.49	1.09

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 28			May 8			May 24		4	65.40	11,500
N	51.39	442	N	77.52	33,200	12	81.76	75,700	8	64.18	10,100
10	51.39	442	12	77.16	30,900		May 25		12	63.65	9,550
11	52.50	840		May 9		12	81.18	68,400		June 7	
12	53.10	1,110	12	76.88	29,700		May 26		10	63.40	9,300
	April 29			May 10		N	80.89	64,900	N	62.92	8,820
7	54.22	1,680	12	76.72	29,100	12	80.59	61,300	10	62.58	8,480
8	58.40	4,690		May 11			May 27		12	61.70	7,620
9	62.52	8,420	12	76.42	27,900	N	80.28	57,800		June 8	
10	65.70	11,800		May 12		12	79.95	54,500	9	61.60	7,520
11	68.92	15,800	N	76.28	27,500		May 28		N	62.75	8,650
N	69.87	17,000	12	76.37	27,800	N	79.78	52,800	2	63.15	9,050
2	73.30	21,800		May 13		12	79.35	48,500	12	63.20	9,100
4	75.60	25,600	12	76.38	27,800		May 29			June 9	
6	76.67	28,900		May 14		N	79.00	45,000	6	63.20	9,100
8	77.25	31,400	12	76.32	27,600	12	78.67	42,200	8	64.13	10,000
10	77.50	33,100		May 15			May 30		N	64.15	10,100
12	77.69	34,400	12	76.40	27,900	N	78.48	40,600	12	63.99	9,890
	April 30			May 16		6	78.20	38,400		June 10	
4	78.00	36,800	8	76.40	27,900	12	78.11	37,700	N	63.95	9,850
8	78.12	37,800	6	76.67	28,900		May 31		2	62.50	8,400
N	78.16	38,100	12	76.69	29,000	8	77.95	36,400	6	61.90	7,800
6	78.15	38,000		May 17		10	77.45	32,800	12	60.00	6,050
12	78.12	37,800	10	76.70	29,000	N	77.27	31,500		June 11	
	May 1		2	77.53	33,300	12	77.08	30,500	8	59.65	5,750
N	78.15	38,000	6	78.14	37,900		June 1		2	58.65	4,900
12	78.20	38,400	12	78.79	43,100	8	77.05	30,400	12	58.10	4,440
	May 2			May 18		N	76.80	29,400		June 12	
N	78.19	38,300	8	79.52	50,200	6	76.35	27,700	8	58.00	4,350
12	78.09	37,500	10	79.88	53,800	12	76.22	27,300	4	58.15	4,480
	May 3		6	80.30	58,000		June 2		12	58.80	5,030
N	77.99	36,700	12	80.70	62,600	8	76.18	27,200		June 13	
12	77.98	36,600		May 19		N	75.89	26,300	N	58.80	5,030
	May 4		N	81.25	69,200	12	74.40	23,400	4	58.80	5,030
8	78.43	40,200	12	81.68	74,500		June 3		6	59.80	5,880
N	78.83	43,400		May 20		12	74.10	23,000	12	60.20	6,230
6	78.90	44,000	N	82.17	81,400		June 4			June 14	
12	79.12	46,200	12	82.60	87,400	8	74.05	22,900	N	60.30	6,320
	May 5			May 21		N	73.00	21,400	12	60.25	6,280
N	79.02	45,300	6	82.78	89,900	6	72.25	20,400		June 15	
12	78.88	43,800	N	82.82	90,500	12	71.95	19,900	8	60.20	6,230
	May 6		12	82.85	90,900		June 5		N	58.10	4,440
N	78.75	42,800		May 22		N	71.85	19,800	6	55.85	2,740
12	78.75	42,800	6	82.85	90,900	6	71.85	19,800	12	54.85	2,080
	May 7		N	82.79	90,100	12	71.50	19,300		June 16	
6	78.72	42,600	12	82.63	87,800		June 6		N	54.60	1,920
N	78.61	41,700		May 23		6	71.40	19,200	12	54.55	1,880
6	78.37	39,800	N	82.45	85,300	8	71.20	18,900			
12	78.12	37,800	12	82.22	82,100	N	68.90	15,800			

Neches River at Evadale, Tex.

Location.--Lat 30°21', long 94°05', at bridge on U. S. Highway 96, 200 ft upstream from Gulf, Colorado & Santa Fe Railway bridge at Evadale, Jasper County, 600 ft downstream from Mill Creek, 15 miles upstream from Village Creek, and at mile 55. Datum of gage is 8.25 ft above mean sea level, datum of 1929, Galveston-Houston supplementary adjustment of 1936.
Drainage area.--7,908 sq mi.
Gage-height record.--Water-stage recorder graph.
Discharge record.--Stage-discharge relation defined by current-meter measurements.
Maxima.--April-June 1953: Discharge, 80,300 cfs 6 p.m. May 24 (gage height 22.53 ft). 1904-6, 1923 to March 1953: Discharge 92,100 cfs May 11, 1944 (gage height, 23.58 ft from floodmark).
Stages known 26.2 ft in May 1884 (discharge, about 125,000 cfs) and 24.5 ft in August 1915 (discharge, about 102,000 cfs), from rating curve extended above 92,000 cfs by logarithmic plotting. Stages by Gulf, Colorado & Santa Fe Railway Co.
Remarks.--Slight regulation by Dam B Reservoir.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	23,400	11,300	43,900	11	7,180	37,400	8,580	21	1,260	59,800	1,430
2	22,800	22,200	39,200	12	6,410	34,700	7,960	22	1,150	69,400	1,380
3	21,700	32,000	35,100	13	5,700	33,900	6,030	23	1,090	76,700	1,350
4	20,000	37,800	32,100	14	5,010	33,000	4,790	24	1,250	80,000	1,320
5	17,800	40,200	29,500	15	4,430	32,200	4,840	25	1,960	79,200	1,300
6	15,300	41,900	27,200	16	3,900	32,300	4,990	26	2,200	76,000	1,270
7	12,700	44,000	24,600	17	3,530	32,300	3,670	27	1,770	71,200	1,240
8	10,600	44,500	20,800	18	3,070	33,300	2,290	28	1,310	65,600	1,150
9	9,120	42,300	14,500	19	2,260	37,600	1,720	29	1,390	59,800	1,170
10	8,010	39,600	9,700	20	1,590	47,400	1,520	30	4,820	54,200	1,390
								31	-	48,800	-
Monthly mean discharge, in cubic feet per second									7,424	46,790	11,200
Runoff, in thousand acre-feet									441.7	2,877	666.4
Runoff, in inches									1.05	6.83	1.58

Gage height, in feet, and discharge, in cubic feet per second, at indicated time,

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 29			May 12		N	22.44	79,300	12	13.31	11,200
4	3.48	1,120	N	17.86	34,600	12	22.32	78,000		June 10	
8	3.54	1,140	6	17.80	34,100		May 26		N	12.57	9,480
10	3.83	1,240	12	17.79	34,000	N	22.15	76,200	6	12.33	9,000
2	4.18	1,370		May 13		12	21.94	73,800	12	12.19	8,740
8	4.88	1,650	N	17.78	34,000		May 27			June 11	
12	5.95	2,160	12	17.72	33,500	N	21.71	71,300	N	12.04	8,470
	April 30			May 14		12	21.43	68,300	4	12.12	8,620
8	8.42	3,780	N	17.65	33,000		May 28		12	12.06	8,510
4	10.27	5,750	12	17.57	32,400	N	21.17	65,700		June 12	
12	11.56	7,680		May 15		12	20.87	62,700	6	11.92	8,260
	May 1		N	17.50	32,000		May 29		10	11.92	8,260
N	13.12	10,700	6	17.55	32,300	N	20.58	59,800	6	11.53	7,630
12	14.66	16,000	12	17.55	32,300	12	20.30	57,000	12	11.18	7,070
	May 2			May 16			May 30			June 13	
N	15.97	22,500	N	17.55	32,300	N	20.02	54,200	N	10.42	5,960
12	16.88	27,900	12	17.55	32,300	12	19.74	51,400	12	9.78	5,140
	May 3			May 17			May 31			June 14	
N	17.53	32,160	N	17.55	32,300	N	19.48	48,800	N	9.41	4,720
6	17.78	34,000	12	17.56	32,400	12	19.23	46,300	6	9.32	4,620
12	17.97	35,400		May 18			June 1		12	9.33	4,630
	May 4		6	17.59	32,600	N	18.99	43,900		June 15	
N	18.33	38,200	N	17.65	33,000	12	18.72	41,500	N	9.51	4,830
12	18.49	39,500	6	17.78	34,000		June 2		12	9.72	5,060
	May 5		12	17.90	34,800	N	18.45	39,200		June 16	
N	18.57	40,200		May 19		12	18.17	37,000	8	9.79	5,150
12	18.65	40,800	N	18.22	37,400		June 3		N	9.75	5,100
	May 6		12	18.67	41,000	N	17.92	35,000	6	9.57	4,900
N	18.77	41,900		May 20		12	17.72	33,500	12	9.27	4,570
12	18.90	43,100	N	19.32	47,200		June 4			June 17	
	May 7		12	20.02	54,200	N	17.52	32,100	N	8.30	3,670
N	19.02	44,200		May 21		12	17.33	30,800	12	7.13	2,780
12	19.06	44,600	N	20.59	59,900		June 5			June 18	
	May 8		12	21.10	65,000	N	17.13	29,400	N	6.14	2,250
9	19.07	44,700		May 22		12	16.95	28,300	6	5.75	2,060
6	19.03	44,300	N	21.55	69,600		June 6		12	5.44	1,900
12	19.01	44,100	12	21.92	73,600	N	16.77	27,200		June 19	
	May 9			May 23		12	16.57	26,000	6	5.19	1,790
N	18.94	43,500	N	22.23	77,000		June 7		N	5.01	1,700
12	18.81	42,300	12	22.42	79,100	N	16.35	24,700	6	4.85	1,640
	May 10			May 24		12	16.09	23,200	12	4.72	1,590
N	18.62	40,600	N	22.52	80,200		June 8			June 20	
12	18.42	39,000	6	22.53	80,300	N	15.69	21,000	N	4.54	1,520
	May 11		12	22.52	80,200	12	15.12	18,100	12	4.41	1,460
N	18.21	37,300		May 25			June 9			June 21	
12	18.02	35,800	6	22.49	79,900	N	14.27	14,400	N	4.32	1,430
									12	4.27	1,410

Village Creek near Kountze, Tex.

Location.--Lat 30°24', long 94°16', at bridge on county road between Kountze and Silsbee, 1.2 miles upstream from Gulf, Colorado & Santa Fe Railway bridge, 3.2 miles northwest of Kountze, Hardin County, and 4½ miles downstream from Beech Creek. Datum of gage is 25.12 ft above mean sea level, datum of 1929.

Drainage area.--837 sq mi.

Gage-height record.--Water-stage recorder graph.

Discharge record.--Stage-discharge relation defined by current-meter measurements below 35,000 cfs and extended above by logarithmic plotting. Shifting-control method used Apr. 1-29, June 12-30.

Maxima.--April-June 1953: Discharge, 47,700 cfs 2 p.m. May 1 (gage height, 25.6 ft, from floodmark).

1924-27, 1939 to March 1953: Discharge, 67,200 cfs Nov. 26,1940 (gage height, 27.6 ft, from floodmark).

Stage known, about 34 ft in August 1915. Flood of May 27, 1929, reached a stage of about 32 ft. Above stages from information by Gulf, Colorado & Santa Fe Railway.

Mean discharge, in cubic feet per second, 1953

Day	April	May	June	Day	April	May	June	Day	April	May	June
1	568	42,800	616	11	266	1,920	318	21	152	12,300	167
2	453	29,700	561	12	242	1,240	516	22	146	7,550	157
3	411	12,400	516	13	228	1,400	686	23	141	5,090	168
4	385	6,620	476	14	224	2,140	409	24	195	3,690	164
5	365	6,260	440	15	231	3,440	326	25	1,030	2,600	146
6	338	6,800	410	16	224	5,320	269	26	1,560	1,740	136
7	323	7,280	381	17	206	6,060	231	27	1,410	1,220	131
8	330	5,940	355	18	189	6,850	209	28	1,020	1,010	130
9	320	4,400	333	19	173	9,920	193	29	1,040	873	221
10	294	3,080	315	20	160	13,800	177	30	11,600	766	753
								31	-	684	-
Monthly mean discharge, in cubic feet per second									807	6,932	330
Runoff, in acre-feet									48,050	426,300	19,660
Runoff, in inches									1.08	9.54	0.44

Gage height, in feet, and discharge, in cubic feet per second, at indicated time, 1953

Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge	Hour	Gage height	Discharge
	April 24		8	25.07	43,100		May 12		12	19.45	14,600
8	2.86	138	10	25.33	45,300	6	8.87	1,310		May 21	
10	2.98	148	N	25.54	47,200	N	8.49	1,210	6	19.12	13,600
2	3.08	158	2	25.60	47,700	6	8.20	1,140	N	18.65	12,400
4	3.24	174	4	25.55	47,200	10	8.12	1,120	12	17.48	9,640
6	3.45	197	8	25.24	44,500	12	8.11	1,120		May 22	
8	4.04	271	12	24.86	41,500		May 13		6	16.90	8,390
12	5.35	483		May 2		2	8.17	1,130	N	16.39	7,390
	April 25		6	24.00	35,500	6	8.47	1,200	6	15.96	6,610
			N	22.98	29,400	N	9.17	1,390	12	15.60	5,970
6	6.90	795	6	21.90	24,000	12	10.42	1,760		May 23	
N	8.15	1,070	12	20.67	18,500		May 14		N	15.00	5,040
6	9.08	1,290		May 3		N	11.40	2,120	12	14.46	4,320
12	9.65	1,450	N	18.38	11,800	12	12.32	2,560		May 24	
	April 26		6	17.40	9,460		May 15		N	13.88	3,680
4	9.91	1,520	12	16.66	7,910	6	12.90	2,890	12	13.20	3,090
6	10.00	1,550		May 4		12	13.55	3,380		May 25	
10	10.12	1,590	6	16.12	6,900	6	14.13	3,940	N	12.37	2,590
1	10.14	1,590	N	15.87	6,450	12	14.60	4,500	12	11.40	2,120
3	10.13	1,590	6	15.71	6,160		May 16			May 26	
6	10.09	1,580	12	15.65	6,060	6	14.97	5,000	N	10.26	1,710
9	10.02	1,560		May 5		N	15.24	5,390	12	9.23	1,400
12	9.98	1,550	N	15.73	6,190	6	15.44	5,700		May 27	
	April 27		12	15.95	6,590	12	15.57	5,920	6	8.84	1,300
6	9.78	1,490		May 6			May 17		N	8.50	1,210
N	9.54	1,420	6	16.02	6,720	6	15.65	6,060	6	8.23	1,140
6	9.25	1,340	N	16.04	6,750	N	15.69	6,120	12	8.00	1,090
12	8.90	1,250	6	16.15	6,950	6	15.67	6,090		May 28	
	April 28		12	16.31	7,240	12	15.65	6,060	N	7.62	1,010
6	8.48	1,150		May 7			May 18		12	7.28	932
N	7.96	1,030	4	16.41	7,430	6	15.66	6,070		May 29	
6	7.34	890	9	16.45	7,500	8	15.68	6,110	N	7.01	872
12	6.66	740	3	16.36	7,330	10	15.75	6,230	12	6.75	815
	April 29		12	16.09	6,840	N	15.86	6,430		May 30	
7	6.04	618		May 8		6	16.46	7,520	N	6.52	764
9	6.15	646	N	15.57	5,920	12	17.10	8,820	12	6.32	720
N	6.94	834	12	15.03	5,080		May 19			May 31	
3	8.20	1,130		May 9		4	17.40	9,460	N	6.15	684
9	10.09	1,660	N	14.53	4,410	8	17.53	9,750	12	5.98	648
12	10.98	1,950	12	13.92	3,720	N	17.56	9,810		June 1	
	April 30			May 10		4	17.59	9,880	N	5.82	614
3	11.93	2,360	N	13.15	3,060	6	17.68	10,100	12	5.68	586
6	13.17	3,070	12	12.13	2,460	12	18.26	11,400		June 2	
N	17.32	9,290		May 11			May 20		N	5.55	560
6	20.45	17,700	N	10.82	1,900	6	18.90	13,000	12	5.44	539
12	23.20	30,700	6	10.10	1,660	N	19.34	14,300		June 3	
	May 1		12	9.42	1,460	4	19.50	14,800	N	5.32	516
4	24.44	38,600				8	19.53	14,800	12	5.20	494

SUMMARY OF FLOOD STAGES AND DISCHARGES

The results of the determinations of maximum flood flows at gaging stations in the area covered by this report are summarized in table 1. The reference numbers correspond to those on plate 8 and figures 40-44.

At many of the gaging stations, the maximum flood previously known antedates the period of gaging-station record. Those floods are listed in the table, in addition to the maximum flood during the period of gaging-station record.

The stages and discharges listed in table 1 may be affected by regulation, overflow, diversions, or by other means. These effects are indicated in footnotes, or they are described in the corresponding station description in the section, "Stages and discharges at stream-gaging stations".

Table 1.--Summary of flood stages and discharges in Louisiana and adjacent States for the floods of April-June 1953

No. on pl. 8	Stream and place of determination	Drainage area (square miles)	Period of record	Maximum flood previously known				Maximum during present flood			
				Date	Gage height (feet)	Discharge		Time	Gage height (feet)	Discharge	
						Discharge (cfs)	Cfs per square mile			Discharge (cfs)	Cfs per square mile
	KOMOCHITTO RIVER BASIN										
1	Homochitto River at Eddiceton, Miss.	180	1938-53	Mar. 29, 1939 May 2, 1950	12.73 15.74	30,900 (a)	172 ------	May 17, 11:30 p.m.--	16.37	28,100	156
2	Homochitto River at Rosetta, Miss.-	750	1951-53	Mar. 31, 1949 Feb. 24, 1953	37.80 31.41	(a) 37,500	------ 50.0	May 4, 9 p.m.-------	36.03	59,400	79.2
	BUFFALO RIVER BASIN										
3	Buffalo River near Woodville, Miss.	182	1942-53	Mar. 2, 1948	16.2	39,900	219	May 4, 7 p.m.-------	15.66	37,200	204
	RED RIVER BASIN										
4	Twelvemile Bayou near Dixie, La.---	3,137	1942-53	Apr. 5, 1945	35.65	34,900	11.1	May 24, 12 m.-------	29.83	19,800	6.31
5	Red River at Shreveport, La.-------	b 60,613	1928-53	Aug. 1849 Apr. 5, 1945 Apr. 7, 1945	45.9 ---- c 38.4	(a) 303,000 -----	------ ------ ------	May 20----------	27.32	173,000	------
6	Bayou Dorcheat near Minden, La.----	1,097	1928-29 1938-53	May 21, 1930 Mar. 5, 1945	22.95 20.84	40,000 21,600	38.5 19.7	May 18, 4 p.m.------	20.78	16,900	15.4
7	Bayou Bodcau near Sarepta, La.-----	546	1938-53	1905 July 6, 1940	d 27 22.16	(a) 12,600	----- 23.1	Apr. 30, 12 p.m.---- May 1----------	----- 19.05	6,020 ------	11.0 ------
8	Loggy Bayou near Ninock, La.-------	2,628	1948-53	Feb. 7, 1949 Feb. 21, 1950	----- 40.74	14,300 -----	------ ------	May 21, 22----------	e 43.95	f 20,000	------
9	Boggy Bayou near Keithville, La.---	79	1938-53	1933 Jan. 5, 1946	26.7 20.2	(a) 14,800	------ 187	Apr. 29, 2 to 4 p.m.	18.82	7,320	92.7
10	Cypress Bayou near Keithville, La.-	66	1938-53	1933 Jan. 5, 1946	18.0 13.32	(a) 14,700	------ 223	Apr. 29, 10 a.m.----	12.36	13,900	211
11	Saline Bayou near Lucky, La.-------	154	1940-53	Jan. 1, 1945	12.9	13,500	87.7	May 17, 1 p.m.-----	11.58	8,830	57.3
12	Black Lake Bayou near Castor, La.--	423	1940-53	Apr. 3, 1945	13.2	14,100	33.3	May 1, 12 p.m.------	12.87	11,500	27.2

13	Saline Bayou near Clarence, La.---	1,382	1949-53	Feb. 23, 1950 June 8, 1950	34.60 ----	------ 7,880	---- 5.70	May 19,10 p.m.------ May 21----------	----- 40.46	14,200 ------	10.3 -----
14	Nantachie Creek near Montgomery, La.	47	1942-53	Apr. 1, 1945	12.6	6,620	141	May 17, 8 p.m.------	14.63	10,500	223
15	Little Sandy Creek at Kisatchie, La.	21.4	1949-53	June 3, 1950	15.00	5,590	261	Apr. 29, 11 a.m.----	15.36	5,880	275
16	Hemphill Creek near Hot Wells, La.	18.0	1948-53	Feb. 13, 1950	12.40	3,970	221	Apr. 29, 10 a.m.----	15.51	8,320	462
17	Red River at Alexandria, La.------	b67,500	1928-53	Apr. 17, 1945	45.23	233,000	----	May 19---------- May 24, 4 p.m.------	---- 42.05	193,000 ------	----- -----
18	Bayou Bartholomew near Beekman, La.	1,645	1928-29 1938-53	Apr. 17, 1927 Jan. 12, 1932 Feb. 12, 1946	g26.75 25.78 27.23	 12,400 10,400	---- 7.54 6.32	May 20, 4 p.m.------	25.09	8,540	5.19
19	Bayou D'Arbonne near Dubach, La.--	355	1940-53	Apr. 2, 1945	22.83	23,400	65.9	May 1, 1 a.m.-------	20.09	9,410	26.5
20	Middle Fork Bayou D'Arbonne near Bernice, La.	178	1940-53	Mar. 5, 1945	11.45	10,500	59.0	May 1, 8 a.m.-------	9.10	4,170	23.4
21	Cornie Bayou near Lillie, La.-----	462	1940-53	Mar. 5, 1945	18.20	17,200	37.2	May 16, 2 a.m.------	16.28	8,890	19.2
22	Ouachita River at Monroe, La.-----	15,298	1938-53	Feb. 2, 3, 1932 Apr. 12, 1945 Apr. 15, 1945	49.7 ---- 50.42	h 101,000 100,000 -----	---- 6.54 ----	May 31, June 1------	i45.94	68,700	4.49
23	Boeuf River near Girard, La.------	---	1938-53	May 7, 1927 Apr. 12, 1947	g 29.5 18.80	(a) 2,970	---- ----	May 18, 12 m.-------	j17.22	2,370	-----
24	Bayou LaFourche near Crew Lake, La.	---	1938-53	Dec. 24, 1931 Apr. 13, 1947	28.22 28.72	17,000 16,900	---- ----	May 18----------	26.56	f 12,000	-----
25	Big Colewa Bayou near Oak Grove, La.	42	1949-53	Apr. 12, 1947 Feb. 21, 1953	95.5 ----	(a) 1,600	---- 38.1	May 16---------- May 17----------	---- 92.6	f 1,400 ------	33.3 -----
26	Tensas River at Tendal, La.-------	---	1938-53	May 15, 1927 Nov. 19, 1948 Nov. 20, 1948	g34.02 ---- 24.78	(a) 4,610 ----	---- ---- ----	May 18, 10 a.m.----- May 19, 4 a.m.------	---- 24.00	2,910 ------	----- -----
27	Bayou Macon near Delhi, La.-------	---	1938-53	May 10, 11,1927 Apr. 14, 1947	g 34.6 25.58	(a) 5,460	---- ----	May 17, 8 p.m.------ May 20, 21----------	---- 25.88	4,060 ------	----- -----
28	Bayou Castor near Grayson, La.----	271	1940-53	Apr. 11, 1947	16.25	21,200	78.2	May 17, 2 p.m.------	15.65	18,000	66.4
29	Garrett Creek at Jonesboro, La.---	2.14	1952-53	----------	----	-----	----	Apr. 29, 1 a.m.-----	9.87	1,670	780

Table 1.--Summary of flood stages and discharges in Louisiana and adjacent States for the floods of April-June 1953--Continued

No. on pl. 8	Stream and place of determination	Drainage area (square miles)	Period of record	Maximum flood previously known				Maximum during present flood			
				Date	Gage height (feet)	Discharge		Time	Gage height (feet)	Discharge	
						Discharge (cfs)	Cfs per square mile			(cfs)	Cfs per square mile
30	Dugdemona River near Jonesboro, La.	362	1938-53	Jan. 1, 1945	19.87	30,600	84.5	May 17, 11 p.m.-----	18.78	23,500	64.9
31	Dugdemona River near Winnfield, La.	648	1939-53	Jan. 3, 1945	22.86	25,000	38.6	May 19, 8 a.m.------	23.78	27,100	41.8
32	Bayou Funny Louis near Trout, La.-	92	1939-53	Feb. 9, 1946	19.91	9,730	106	May 17, 7 p.m.------	23.26	32,700	355
33	Big Creek at Pollock, La.---------	51	1942-53	Feb. 13, 1950	14.52	13,700	269	Apr. 29, 12:30 p.m.-	16.90	23,500	461
	MISSISSIPPI RIVER DELTA										
34	Chefuncte River near Folsom, La.--	95.5	1944-53	Nov. 27, 1948	21.59	15,000	157	May 3, 1 p.m.-------	22.26	18,300	192
35	Tangipahoa River at Robert, La.---	646	1938-53	1921 Mar. 22, 1943	27.1 20.87	(a) 35,500	---- 55.0	May 3, 8 p.m.-------k	23.13	50,500	78.2
36	Tickfaw River at Holden, La.------	242	1940-53	Mar. 22, 1943	m 19.75	9,680	40.0	May 20, 7 a.m.------	18.97	8,400	34.7
37	Natalbany River at Baptist, La.---	79.5	1943-53	June 7, 1950	m16.57	5,540	69.7	May 3, 3 p.m.-------	19.73	9,550	120
38	Amite River near Darlington, La.--	580	1950-53	Mar. 30, 1951	16.05	31,600	54.5	May 20, 8 a.m.------	14.64	18,900	32.6
39	Comite River near Olive Branch, La.	149	1942-53	Feb. 6, 1943	m 20.6	12,400	83.2	May 18, 4 p.m.------	20.12	13,300	89.3
40	Comite River near Comite, La.-----	332	1944-53	Mar. 30, 1951	22.62	11,500	34.6	May 19, 6 p.m.------	25.64	20,500	61.7
41	Amite River near Denham Springs, La.	1,330	1938-53	Mar. 15, 1921 Mar. 5, 1948	35.4 29.59	(a) 45,100	---- 33.9	May 20, 4 a.m.------n	32.46	67,000	50.4
42	Ward Creek at Siegen Lane, near Baton Rouge, La.	40.0	1946-53	Mar. 13, 1947	23.49	3,900	97.5	May 3, 6 p.m.-------	24.70	3,840	96.0
43	Atchafalaya River at Krotz Springs, La.	----	1934-53	May 1927 Feb. 28, 1937 Mar. 6, 1950	d 39 37.80 -----	(a) ----- 624,000	---- ---- ----	May 29-31----------p	33.2	405,000	----

44	Bayou Cocodrie near Clearwater, La.	240	1922-25 1937-53	Apr. 9, 1938	21.50	4,000	16.7	May 18, 12 p.m.	26.72	28,200	118
45	Bayou Courtableau at Washington, La.	715	1946-53	Apr. 28, 1949 Apr. 29, 1949	--- 27.85	4,520 ------	----- -----	May 21, 12 p.m. May 22, 6 a.m.	--- 35.29	q 9,490 ---	--- ---
46	Chatlin Lake Canal near Lecompte, La.	75.9	1942-53	Mar. 18, 1945 Mar. 31, 1949	--- 17.21	2,370 -----	----- -----	May 18, 10 p.m.	19.51	q 2,600	---
47	Bayou des Glaises diversion channel at Moreauville, La.	r 270	1943-53	Apr. 23, 1949	m13.3	3,680	-----	May 18, 8 p.m.	17.84	6,340	---
48	West Protection Levee borrow pit diversion channel near Plaucheville, La.	r 321	1944-53	Apr. 22, 1949	m18.40	4,090	-----	May 18, 7 p.m. May 19, 12 m.	--- 22.90	6,130 ---	--- ---
49	Big Darbonne Bayou at culvert near Krotz Springs, La.	-----	1953	------	---	-----	-----	May 27	---	f 1,210	---
50	Bayou Courtableau at weirs near Krotz Springs, La.	-----	1953	------	---	-----	-----	May 25, 12 m.	24.11	24,800	---
51	Bayou Teche at Arnaudville, La.--	r 1,531	1949-53	Jan. 7, 1950 Mar. 28, 1951	21.37 ---	----- 2,440	----- -----	May 23, 6 p.m. May 24, 12 m.	24.27 ---	--- 4,630	--- ---
52	Bayou Carencro near Sunset, La.--	37.1	1943-53	Mar. 13, 1947	17.10	4,220	114	May 18, 8 p.m.	s14.86	2,660	71.7
53	Bayou Bourbeau at Shuteston, La.-	19.0	1942-53	Jan. 13, 1947	m10.8	2,840	149	May 18, 4 p.m.	10.41	1,310	68.9
	MERMENTAU RIVER BASIN										
54	Bayou des Cannes near Eunice, La.	131	1938-53	July 7, 1946	21.15	10,000	76.3	May 20, 12 m.	22.36	11,900	90.8
55	Long Point Gully near Crowley, La.	25.7	1949-53	Jan. 6, 1950	12.83	1,540	59.9	May 16, 11 a.m.	14.48	2,410	93.8
56	Bayou Nezpique near Basile, La.--	527	1938-53	Aug. 11, 1940	31.08	22,900	43.5	May 20, 4 p.m.	t34.39	35,800	67.9
	CALCASIEU RIVER BASIN										
57	Calcasieu River near Glenmora, La.	499	1943-53	Apr. 25, 1952	19.02	33,000	66.1	May 19, 8 a.m.	21.55	59,900	120
58	Calcasieu River near Oberlin, La.	753	1922-25 1938-53	June 1886 Feb. 16, 1950	22 to 23 21.54	(a) 33,200	----- 44.1	May 19, 9 p.m.	26.53	72,800	99.5
59	Tenmile Creek near Elizabeth, La.	91.5	1949-53	Apr. 30, 1950	15.32	4,810	52.6	May 18	21.33	31,900	349

Table 1.--Summary of flood stages and discharges in Louisiana and adjacent States for the floods of April-June 1953-Continued

No. on pl. 8	Stream and place of determination	Drainage area (square miles)	Period of record	Maximum flood previously known				Maximum during present flood			
				Date	Gage height (feet)	Discharge (cfs)	Cfs per square mile	Time	Gage height (feet)	Discharge (cfs)	Cfs per square mile
60	Whiskey Chitto Creek near Oberlin, La.	510	1939-53	June 1886 Aug. 9, 1940	25.7 23.42	(a) 35,000	---- 68.6	May 18, 12 p.m.----	32.8	144,000	282
61	Bundick Creek near Dry Creek, La.-	238	1939-53	Feb. 14, 1950	19.23	22,500	94.5	May 19, 2 a.m.-----	23.67	37,000	155
62	Calcasieu River near Kinder, La.--	1,700	1922-25 1938-53	Dec. 23, 1923 Aug. 11, 1940	u 21.69 v 24.7	68,000 64,400	40.0 37.9	May 19, 12 p.m.----	32.00	182,000	107
63	Beckwith Creek near DeQuincy, La.-	148	1945-53	Feb. 14, 1950	22.40	8,930	60.3	May 19, 10 p.m.----	23.23	10,600	71.6
64	Hickory Branch at Kernan, La.-----	82.2	1945-53	June 21, 1947	26.0	5,950	72.4	May 19, 9 a.m.-----	26.26	6,080	74.0
	SABINE RIVER BASIN										
65	Sabine River near Mineola, Tex.---	1,445	1939-53	June 8, 1943 Apr. 1, 1945	w 24.37 24.00	---- 76,000	---- 52.6	May 2, 8 a.m.------	19.91	32,300	22.4
66	Lake Fork Sabine River near Quitman, Tex.	586	1924-26 1939-53	July 1895 Mar. 30, 1945	25.9 29.85	(a) 75,600	---- 129	Apr. 30, 2 p.m.----	21.05	20,700	35.3
67	Big Sandy Creek near Big Sandy, Tex.	236	1939-53	Mar. 31, 1945	x 22.4	38,000	161	May 17, 4 p.m.-----	18.60	7,270	30.8
68	Sabine River near Gladewater, Tex.	2,846	1932-53	May 1914 Apr. 2, 1945	41.7 44.16	71,000 138,000	24.9 48.5	May 20, 6 a.m.-----	y 36.72	29,300	10.3
69	Sabine River near Tatum, Tex.-----	3,586	1939-53	May 1884 Apr. 4, 1945	d 32 m 33.80	(a) 123,000	---- 34.3	May 23, 2 p.m.-----	27.08	28,500	7.95
70	Sabine River at Logansport, La.---	4,858	1903-53	May 1884 Apr. 8, 1945	39.4 44.07	(a) 92,000	---- 18.9	May 19, 10 p.m.----	35.98	40,900	8.42
71	Tenaha Creek near Shelbyville, Tex.	87.0	1952-53	Mar. 11, 1953	13.85	15,200	175	Apr. 29, 12 m.-----	13.63	13,900	160
72	Bayou San Patricio near Noble, La.	154	1951-53	Mar. 11, 1953	13.66	6,500	42.2	Apr. 30, 4 a.m.----	14.75	9,330	60.6
73	Bayou San Miguel near Zwolle, La.	113	1948-53	June 3, 1950	15.75	15,000	133	May 17, 10 p.m.----	14.40	12,000	105

74	Sabine River near Milam, Tex.-----	6,543	1923-25 1939-53	Apr. 12, 1945	z 48.87	83,400	12.7	May 20, 11 a.m. to 2 p.m.	47.01	69,100	10.6
75	Palo Gaucho Bayou near Hemphill, Tex.	121	1952-53	July 1933 Feb. 21, 1953	aa 26.6 15.58	(a) 1,880	---- 15.5	Apr. 29, 3 p.m.----	22.50	17,000	140
76	Bayou Anacoco near Leesville, La.-	114	1948-53	June 3, 1950	18.13	20,000	175	Apr. 29, 5 p.m.----	19.39	26,200	230
77	Bayou Anacoco near Rosepine, La.--	360	1951-53	Apr. 24, 1952	23.61	23,800	66.1	May 19----------	28.38	64,300	179
78	Sabine River near Bon Weir, Tex.--	8,323	1923-34 1939-53	Apr. 23 or 24, 1913 Apr. 17, 18, 1945 June 6, 1950	ab 30.5 23.10 23.35	(a) 75,500 ------	---- 9.07	May 19, 10-12 p.m.-	25.70	115,000	13.8
79	Big Cow Creek near Newton, Tex.---	141	1952-53	Apr. 1922 Apr. 24, 1952	aa 27.5 14.93	(a) 1,790	---- 12.7	Apr. 29, 8 p.m.----	19.45	20,200	143
80	Cypress Creek near Buna, Tex.-----	63.4	1952-53	Apr. 23, 1952	m 11.93	3,800	60.0	Apr. 30, 2 a.m.----	m 11.65	3,320	52.4
81	Sabine River near Ruliff, Tex.----	9,440	1924-53	May or June 1884 May 24, 25, 1935 Dec. 16, 1940	ac 22.2 17.9 17.81	(a) ------ 86,000	---- ---- 9.11	May 22, 10 a.m.----	19.98	121,000	12.8
82	Cow Bayou near Mauriceville, Tex.-	127	1952-53	Feb. 2, 1952 Apr. 24, 1952	16.51 15.16	(a) 3,380	---- 26.6	May 19, 3 p.m.-----	m 14.15	1,950	15.4
	NECHES RIVER BASIN										
83	Neches River near Neches, Tex.----	1,129	1939-53	May 1908 Apr. 2, 1945	ad 24.3 22.07	(a) 45,500	---- 40.3	May 19, 12 m.------	17.40	12,700	11.2
84	Neches River near Alto, Tex.------	1,903	1944-53	May 1884 Apr. 4, 1945	ae 28.2 26.85	d 50,000 42,800	26.3 22.5	May 17, 4 p.m.-----	22.54	22,900	12.0
85	Neches River near Diboll, Tex.----	2,670	1923-25 1939-53	May 1884 May 4, 1944	d 21 18.70	d 80,000 49,900	29.9 18.7	May 19, 8 p.m.-----	16.35	21,600	8.10
86	Neches River near Rockland, Tex.	3,539	1903-53	May 1884 May 6, 1944	34.9 31.84	d 62,000 49,800	17.5 14.1	May 20, 4 p.m.-----	27.70	34,400	9.72
87	Lake Tyler near Whitehouse, Tex.	69	1949-53	Feb. 12, 1952	376.1	af 44,840	----	May 15, 11 p.m. to May 16, 2 a.m.---	376.3	af 45,320	----
88	Mud Creek near Jacksonville, Tex.	382	1939-53	May 1908 and Dec. 1913 May 3, 1944	d, z 20 14.09	(a) 23,400	---- 61.3	May 17, 8 a.m.-----	10.05	6,950	18.2

Table 1.--Summary of flood stages and discharges in Louisiana and adjacent States for the floods of April-June 1953--Continued

No. on pl. 8	Stream and place of determination	Drainage area (square miles)	Period of record	Maximum flood previously known				Maximum during present flood			
				Date	Gage height (feet)	Discharge (cfs)	Cfs per square mile	Time	Gage height (feet)	Discharge (cfs)	Cfs per square mile
89	Angelina River near Lufkin, Tex.--	1,575	1923-34 1939-53	May 1884 Feb. 24, 1932 May 7, 1944	26.5 18.26 18.55	(a) 38,200 ----	---- 24.2 ----	May 19, 3-6 a.m.---	16.48	22,000	14.0
90	Attoyac Bayou near Chireno, Tex.--	502	1924-25 1939-53	June 1912 Nov. 24, 1940	29.9 25.97	(a) 31,900	---- 63.5	May 18, 10 a.m.----	22.08	16,800	33.5
91	Angelina River near Zavalla, Tex.-	2,803	1951-53	Mar. 16, 1953	25.27	19,000	6.78	May 18, 6 p.m.-----	27.72	37,300	13.3
92	Dam B Reservoir at Town Bluff, Tex.	7,407	1951-53	Mar. 18, 1952	83.81	af105,837	----	May 22, 4 a.m.-----	85.21	af 128,400	----
93	Neches River at Town Bluff, Tex.--	7,407	1951-53	May 1884 Mar. 22, 1953	86.8 73.71	d 120,000 22,400	16.2 3.02	May 21, 12 p.m.---- to May 22, 6 a.m.	82.85	90,900	12.3
94	Neches River at Evadale, Tex.-----	7,908	1904-6 1923-53	May 1884 May 11, 1944	26.2 23.58	d 125,000 92,100	15.8 11.6	May 24, 6 p.m.-----	22.53	80,300	10.2
95	Village Creek near Kountze, Tex.	837	1924-27 1939-53	Aug. 1915 Nov. 26, 1940	d 34 27.6	(a) 67,200	---- 80.3	May 1, 2 p.m.------	25.6	47,700	57.0

a Not determined.
b 5,936 sq mi above Denison Dam is non-contributing.
c Outside gage; well gage read 37.9 ft.
d About.
e Occurred on May 21.
f Daily mean discharge.
g Affected by overflow from Mississippi River.
h Estimated.
i Occurred on June 1.
j Occurred at 4 p.m.
k Occurred at 9 p.m.
m From graph based on gage readings.
n Occurred at 9 a.m.
p Outside gage; well gage read 32.2 ft.
q Does not include flow bypassing gage.
r Discharge affected by diversions to or from the basin.
s Occurred at 10 p.m.
t Occurred at 12 p.m.
u Datum then in use, or about 23.5 ft present datum.
v Flood of 1913 reached a stage about 0.3 ft higher.
w Maximum stage known since at least 1915.
x Maximum stage known since at least 1905.
y Occurred at 12 m.
z Maximum stage known since at least 1884.
aa Maximum stage known since at least 1907.
ab Maximum stage known since at least 1833.
ac Maximum stage known since at least 1835.
ad Flood of May 1884 probably was higher.
ae Maximum stage known since at least 1861.
af Contents in acre-feet.

MAGNITUDE AND FREQUENCY OF FLOODS

Flood-frequency relationships, based on the annual peak discharge data, were defined in a cooperative report 2/ published by the Louisiana Department of Highways. Figures 40-43 show the relation of peak discharge of the flood of April-June 1953 to the size of the drainage basin in three designated areas in Louisiana and for the main stem of the Sabine River. The lines of recurrence interval shown in the graphs were computed directly from frequency graphs in the flood-frequency report. Some stations were not plotted, as they were not applicable to the frequency relations. These graphs provide a method for comparing the peak discharges of this flood with the relative magnitude of various average recurrence intervals.

Figure 44 shows the relation of unit discharge to the size of drainage basin. This plot presents another method of comparing flood discharges from drainage basins that differ in size, but it does not bring out varying influences of topography or other basin characteristics that may not be comparable.

Figures 45-47 show the relative magnitude of the 1953 flood compared with previous maxima for the period of record for three representative stations.

2/ Ibid. p. 229-273.

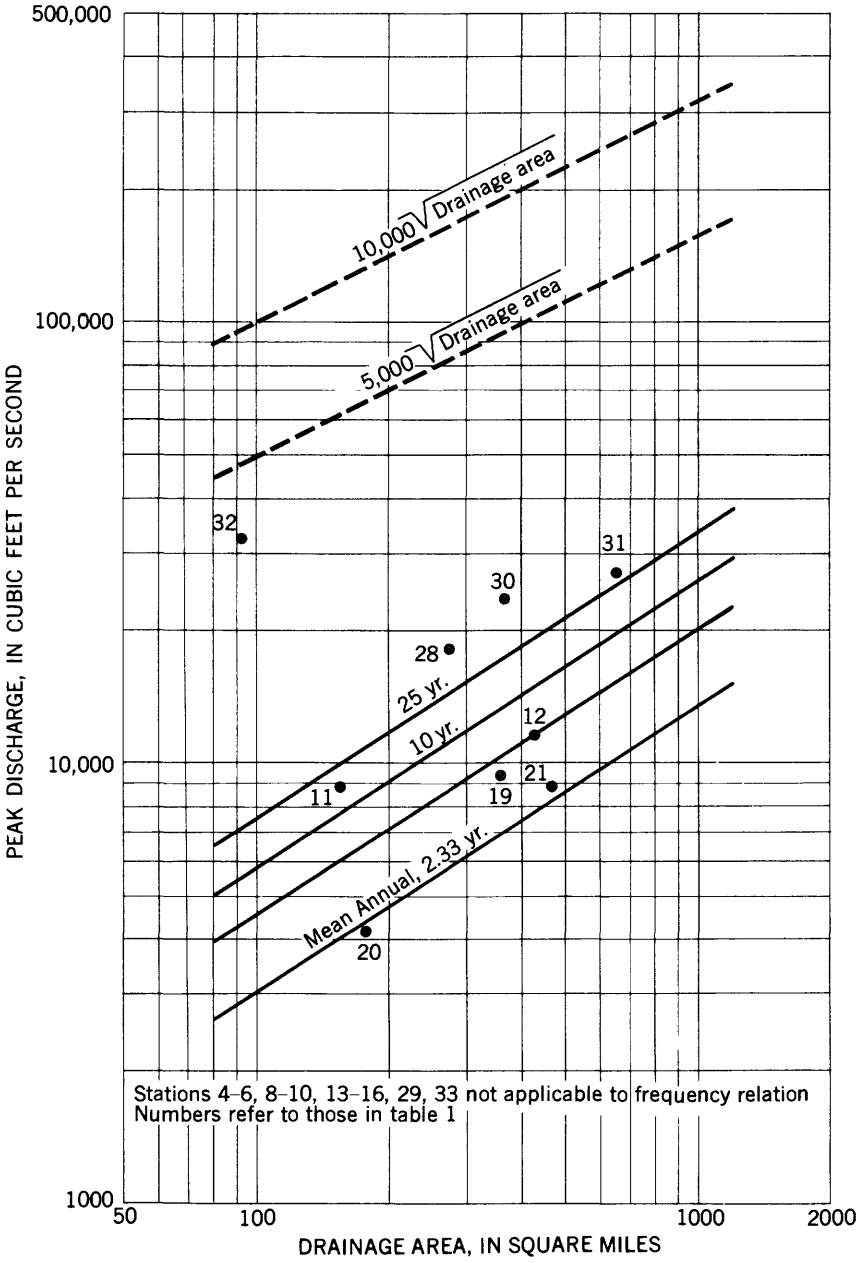

Figure 40. --Relation of peak discharge to size of drainage basin in northwestern Louisiana.

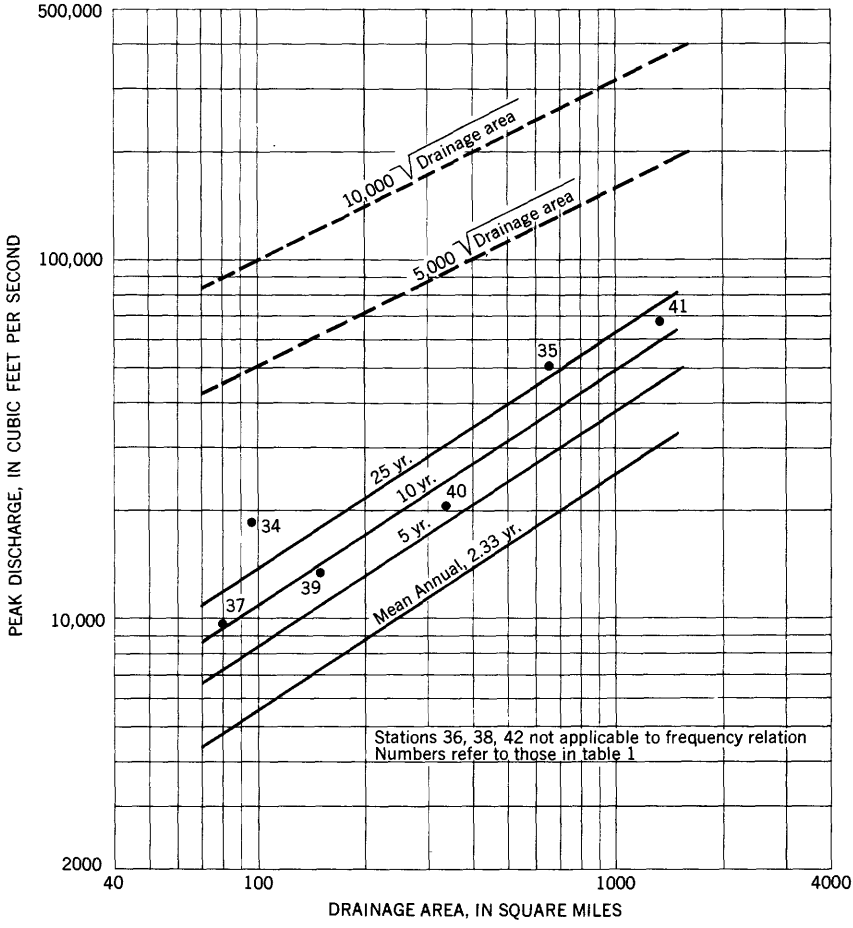

Figure 41. --Relation of peak discharge to size of drainage basin in southeastern Louisiana.

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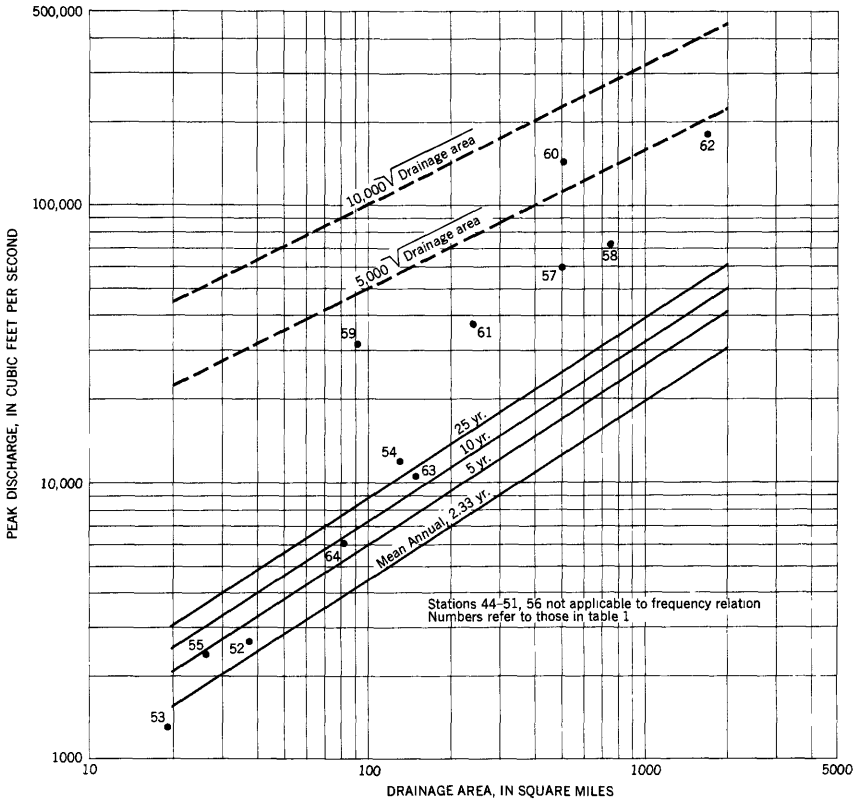

Figure 42. --Relation of peak discharge to size of drainage basin in southwestern Louisiana.

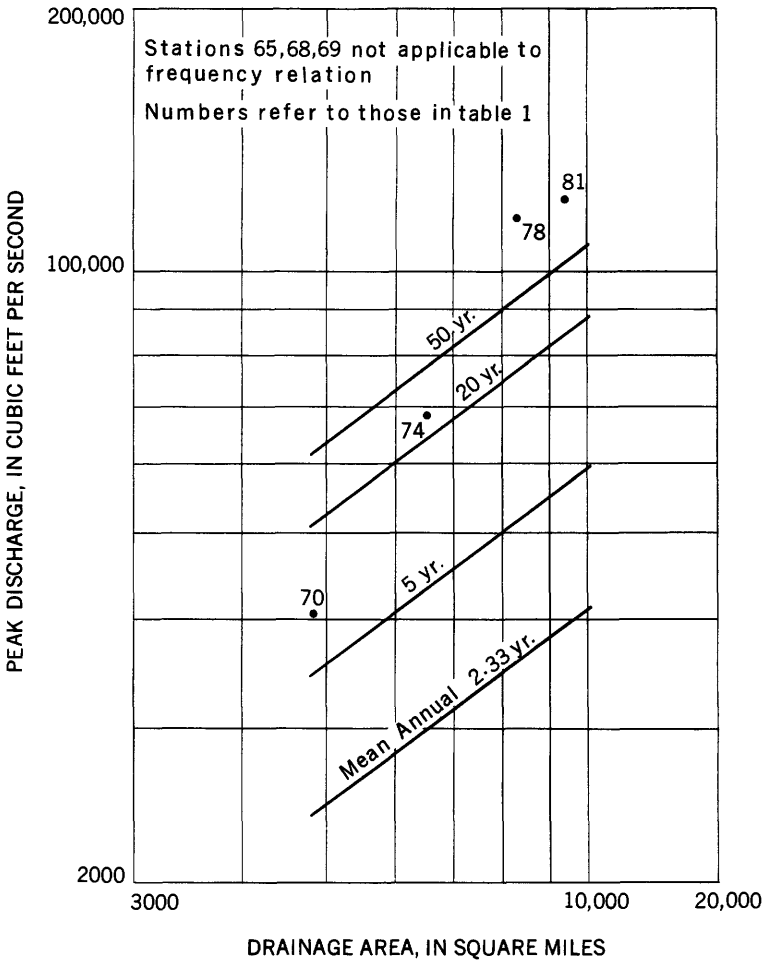

Figure 43. --Relation of peak discharge to size of drainage basin for Sabine River main stem.

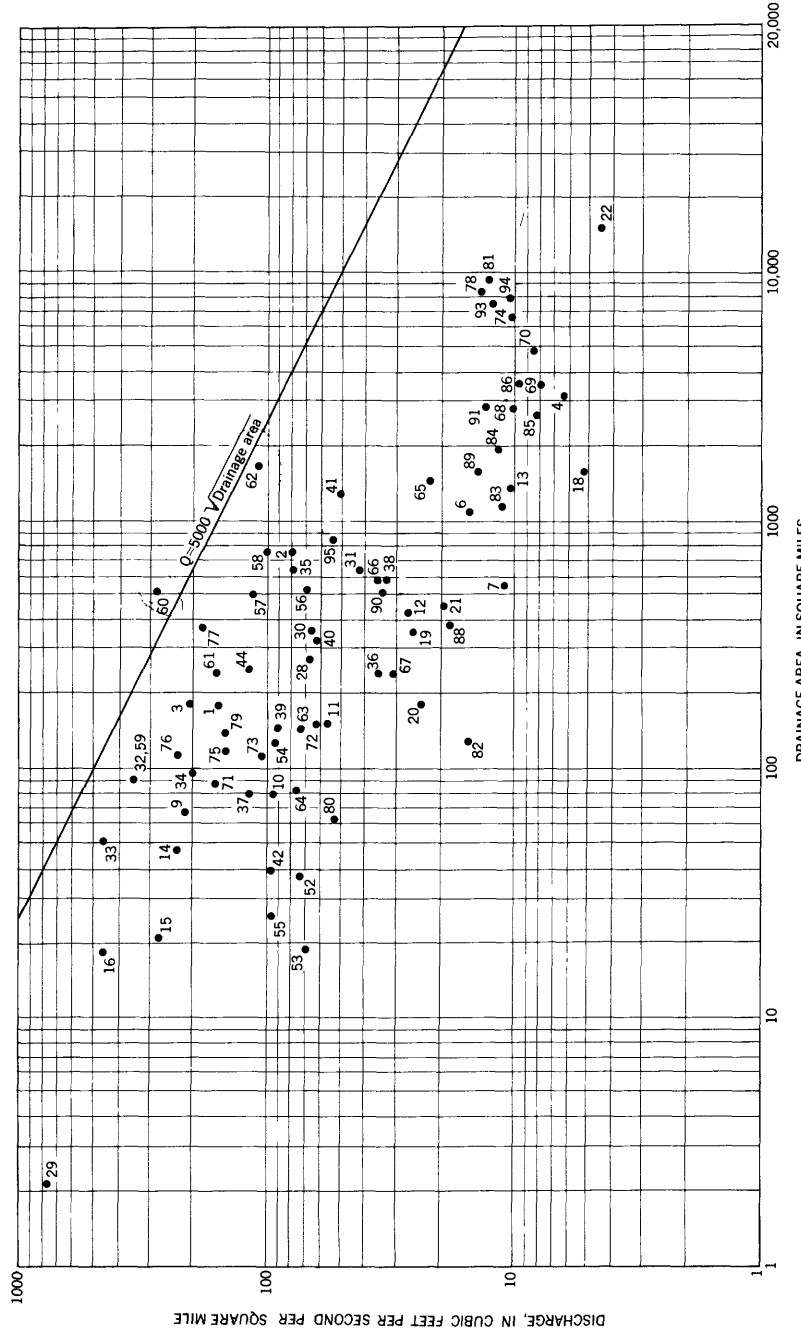

Figure 44.--Relation of unit discharge to size of drainage basin.

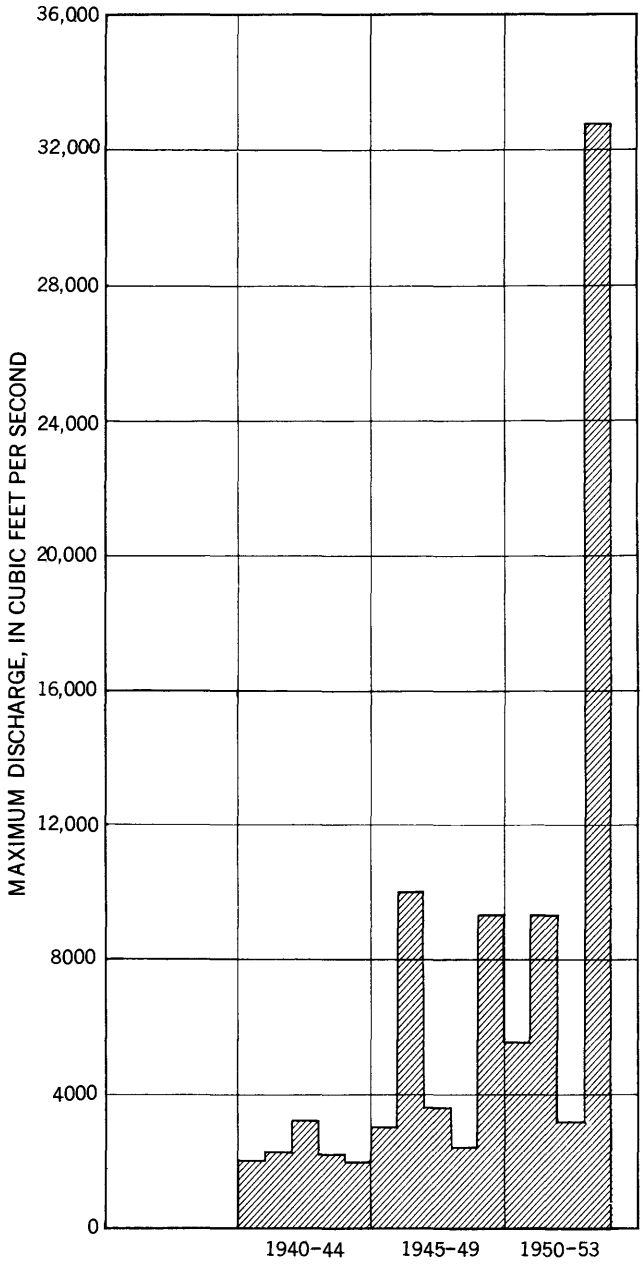

Figure 45. --Maximum annual floods of Bayou Funny Louis near Trout, La.

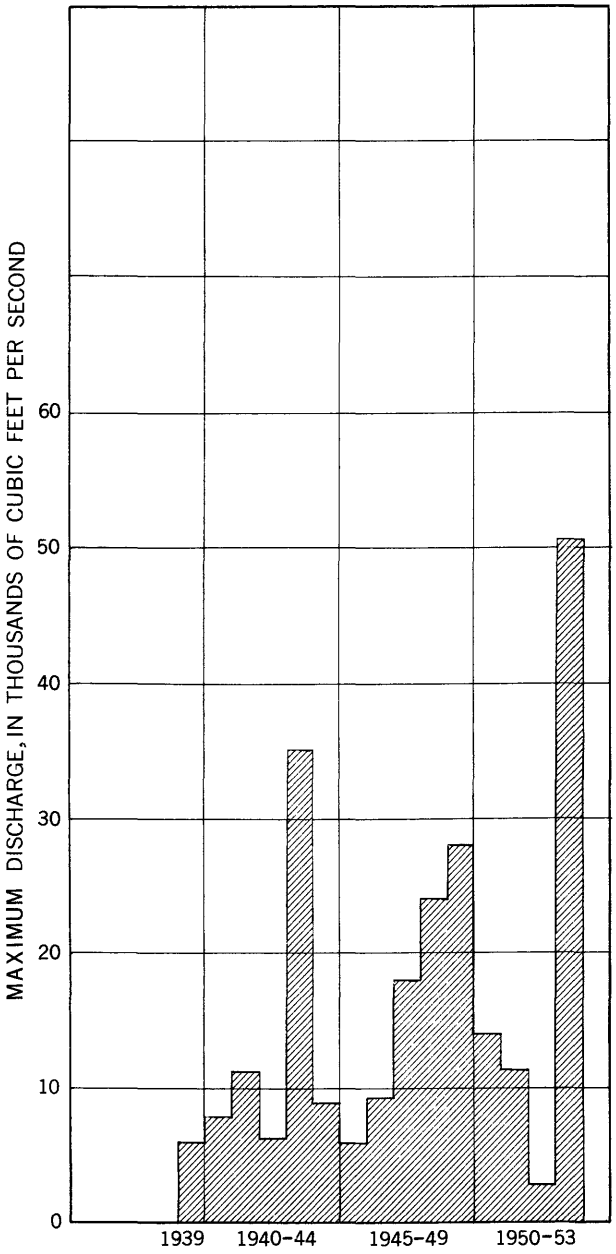

Figure 46. --Maximum annual floods of Tangipahoa River at Roberts, La.

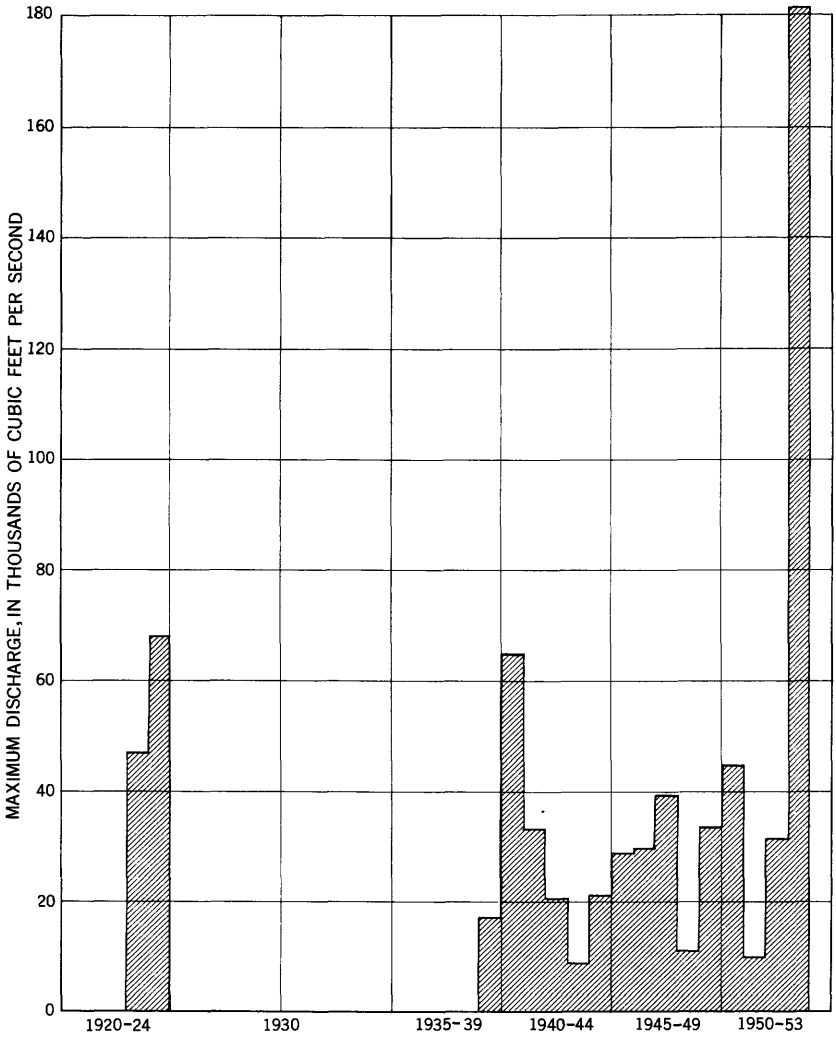

Figure 47.--Maximum annual floods of Calcasieu River near Kinder, La.

FLOOD-CREST STAGES

Records of flood-crest stages collected by the Corps of Engineers or by the Geological Survey are listed in table 2. The points are generally identified by landline locations and referenced to prominent physical features.

In table 3 are listed flood-crest data for the lower reaches on Red River. The points are identified by river mileage above Old River.

Table 2.--Flood-crest stages in Louisiana and Arkansas

Stream and location	Elevation m.s.l. (feet)
RED RIVER BASIN	
Bayou Dorcheat at bridge on State Highway 182, 1.8 miles upstream from Black Bayou and 4 miles northeast of Cotton Valley, La.	a 45.16
Brushy Creek at bridge on State Highway 90, 2.4 miles south of Hortman, La.	a 12.75
Clarke Bayou at bridge on U. S. Highways 79 and 80, 2.5 miles southeast of Haughton, La.	a 10.12
Bayou Bodcau Reservoir, 2.1 miles northeast of Bellevue, 20 miles northeast of Shreveport and 54.5 miles above Loggy Bayou, La.	b 187.01
Red Chute Bayou, lat 32°33'15", long 93°37'30", in NE¼ sec. 17, T. 18 N., R. 12 W., at bridge on U. S. Highway 80, 7.5 miles northeast of Shreveport, La.	b* 163.95
Alligator Bayou, lat 32°32'25", long 93°39'05", in NW¼ sec. 19, T. 18 N., R. 12 W., at bridge on U. S. Highway 80, 5.7 miles northeast of Shreveport, La.	b* 162.77
Shell Bayou, in SE¼ sec. 18, T. 18 N., R. 12 W., at bridge on U. S. Highway 80, 6.4 miles northeast of Shreveport, La.	b* 163.10
Bayou Pierre at 70th St., Shreveport, lat 32°26'35", long 93°43'50", between lots 32 and 38, T. 17 N., R. 13 W.	b 161.12
Bayou Pierre, lat 32°18'00", long 93°37'35", in SW¼ sec. 8, T. 15 N., R. 12 W., at bridge 1.0 mile upstream from Cypress Bayou and 3.2 miles south of Gayles, La.	b* 143.67
Cypress Bayou, La., at intake and outlet of Wallace Lake Reservoir, lat 32°19'10", long 93°40'10", in SW¼NE¼ sec. 2, T. 15 N., R. 13 W., 1.0 mile downstream from Kansas City Southern Railroad bridge and 3.2 miles upstream from mouth.	b 153.00 (intake) b 143.71 (outlet)
Bayou Pierre, lat 32°04'40", long 93°30'40", in SE¼SE¼ sec. 29, T. 13 N., R. 11 W., at bridge on State Highway C-1695, 2.3 miles west of town of Grand Bayou, La.	b* 131.88
Bayou Pierre at bridge on U. S. Highway 84 at Evelyn, La., 2.8 miles upstream from Shell Bayou.	a 46.11
Bayou Pierre, lat 31°54'33", long 93°21'10", in W½ sec. 25, T. 11 N., R. 10 W., at Jims Island Bridge on parish road, 3.0 miles southwest of Lake End, La.	b* 124.64
Black Lake Bayou at bridge on U. S. Highway 80, 7 miles southeast of Minden, La.	a 17.12
Leatherman Creek at bridge on U. S. Highway 80, 3.2 miles west of Gibsland, La.	a 44.93

Table 2.--Flood-crest stages in Louisiana and Arkansas--Continued

Stream and location	Elevation m.s.l. (feet)
Black Lake Creek, just upstream from bridge on U.S. Highway 80, 2 miles west of Gibsland, La.	a 45.48
Cane River at bridge on State Highway 20, 2 miles northwest of Galbraith, La.	102.19
Cane River, lat 31°30'30", long 92°45'55", between lots 54 and 55, T. 6 N., R. 4 W., at bridge on State Highway 431, 2.7 miles upstream from mouth and 3 miles northeast of Galbraith, La.	b* 101.95
Bayou Jean de Jean, lat 31°20'35", long 92°43'05", between lots 115 and 117, T. 4 N., R. 3 W., at bridge 0.3 miles northwest of Hot Wells, La.	b 95.35
Bayou Jean de Jean at Phillips Bridge on State Highway 20, about 1 mile west of Boyce, La.	b 96.56
Sugarhouse Bayou, in SW¼ sec. 4, T. 6 N., R. 3 W., at bridge on State Highway 19, 1.5 miles east of Colfax, La.	b 94.5
Bayous Darro and Rigolette, lat 31°31'30", long 92°40'10", in NW¼SW¼ sec. 3, T. 6 N., R. 3 W., at bridge on State Highway 19, 2.3 miles east of Colfax, La.	b 94.19
Bayou Rigolette, lat 31°22'35", long 92°29'25", in SE¼ sec. 29, T. 5 N., R. 1 W., at bridge on State Highway 615, 5 miles northwest of Pineville, La.	b 88.3
OUACHITA RIVER BASIN	
Ouachita River near Morobay, Ark. (C. S. gage 64).	b 87.5
Boeuf River, 1.5 miles north of Boeuf, Ark. (C. S. gage 43).	b 103.7
Boeuf River at Arkansas-Louisiana State line (C. S. gage 44).	b 98.0
Boeuf River, northwest of Oak Grove, La. at mile 181.5.	b 91.4
Cypress Bayou, in SW¼ sec. 28, T. 21 N., R. 8 E., at bridge on State Highway 11, 8 miles east of Mer Rouge, La.	b 90.1
Bayou LaFourche, in sec. 7, T. 18 N., R. 7 E., on State Highway 47 on Lake LaFourche, 4 miles south of Oak Ridge, La.	b 71.8
Bayou Galion, in sec. 28, T. 21 N., R. 7 E., on State Highway 11, 2 miles east of Mer Rouge, La., at mile 20.0 (C. S. gage 79).	b 86.5
Bayou Galion on line between secs. 15 and 22, T. 19 N., R. 6 E., 4 miles west of Oak Ridge, La.	b 69.9
Little Bayou Boeuf, in SW¼ sec. 28, T. 20 N., R. 5 E., at bridge on State Highway 200, 3 miles southeast of Perryville, La., at mile 15.51.	b 75.56

Table 2.--Flood-crest stages in Louisiana and Arkansas--Continued

Stream and location	Elevation m.s.l. (feet)
Little Bayou Boeuf at bridge on State Highway 14, 4.5 miles southwest of Collinston, La.	a 44.26
Little Bayou Boeuf, in SW¼ sec. 14, T. 19 N., R. 5 E., at bridge on State Highway 467 at Wham, La., at mile 7.32.	b 74.0
Bayou LaFourche, old channel, lat 32°08'50",long 92°01'50", in sec. 35, T. 14 N., R. 4 E., on State Highway 64, 3.8 miles northeast of Columbia, La.	b 59.03
Boeuf River, in sec. 26,T. 18 N., R. 7 E., at Antioch Church at mile 136.9.	b 71.6
Boeuf River, in sec. 10, T. 15 N., R. 5 E., 2 miles west of Charlieville, La., at mile 93.2.	b 62.2
Big Creek at mouth of Little Colewa Canal, 5 miles west of Richland, La., at mile 55.24.	b 84.50
Big Creek on line between sec. 30 and 31, T. 18 N., R. 9 E., at bridge on State Highway C-1370, 5 miles southwest of Richland, La., at mile 52.92.	b 83.09
Big Colewa Bayou at south line of sec. 3, T. 20 N., R. 9 E., 6 miles west of Pioneer, La., at mile 75.66.	b 91.35
Big Creek, in sec. 34, T. 17 N., R. 8 E., at mouth of Cypress Creek, 4 miles south of Holly Ridge, La. at mile 43.33.	b 77.46
Big Creek, in SE¼ sec. 4, T. 16 N., R. 8 E., 5.5 miles south of Holly Ridge, La., at mile 39.50.	b 76.03
Big Creek, in SE¼ sec. 24, T. 16 N., R. 7 E., at bridge on State Highway C-1371, 5 miles northeast of Mangham, La., at mile 32.28.	b 70.36
Big Creek, in SW¼ sec. 33, T. 16 N., R. 7 E., on State Highway 637, 1 mile northeast of Mangham, La., at mile 25.43.	b 66.65
Big Creek, east of Mangham, La., at mile 23.28.	b 66.12
Big Creek, in NE¼ sec. 29, T. 15 N., R. 7 E., on bridge, 1 mile east of Newlight, La., at mile 18.64.	b 62.87
Boeuf River, in sec. 20, T. 14 N., R. 5 E., at Roberts Ferry, La., at mile 55.0.	b 59.0
Tensas River, in SW¼ sec. 11, T. 14 N., R. 11 E., at mouth of Mill Bayou, 1.5 miles north of Westwood, La., at mile 82.5.	b 63.0
Tensas River, in SE¼ sec. 13, T. 13 N., R. 10 E., at mouth of Glade Bayou on State Highway 1535, 22 miles east of Newlight, La., at mile 69.5.	b 60.3

Table 2.--Flood-crest stages in Louisiana and Arkansas--Continued

Stream and location	Elevation m.s.l. (feet)
Tensas River, in NE¼ sec. 21, T. 13 N., R. 10 E., at mouth of Mound Bayou on State Highway 76, 1 mile west of Newlight, La., at mile 65.3.	b 60.0
Tensas River, in SW¼ sec. 19, T. 13 N., R. 10 E., at bridge on State Highway 48, 3.5 miles west of Newlight, La., at mile 61.0.	b 59.4
Bayou Macon, in SE¼ sec. 8, T. 23 N., R. 12 E., at bridge on State Highway 153, 3 miles east of Kilbourne, La., at mile 146.3.	b 98.3
Bayou Macon, in T. 21 N., R. 11 E , at Corbin Ferry, 4 miles east of Forest, La., at mile 122.1.	b 86.1
Bayou Macon on line between secs. 19 and 30, T. 20 N., R. 11 E., at dead end of State Highway 569, 2.2 miles northeast of Floyd, La.	a 19.71
Bayou Macon, in NW¼ sec. 24, T. 19 N., R. 10 E., at State Highway 45, Jackson Landing, 4.5 miles northeast of Epps, La., at mile 105.8.	b 79.5
Bayou Macon, in SW¼ sec. 19, T. 13 N., R. 9 E., at State Highway 48, 1 mile southeast of Como, La., at mile 36.0.	b 65.2
Port deLuce Creek at bridge on U. S. Highway 167, 0.9 mile north of Winnfield, La.	a 16.88
Bayou Castor at bridge on State Highway 13, 1 mile northeast of Chatham, La.	a 46.09
Little Creek at bridge on State Highway 13,0.5 mile northeast of Chatham, La.	a 45.19
Bayou Beaucoup at bridge on State Highway 110, 3.3 miles west of Cotton Plant, La.	a 13.18
Flat Creek at bridge on State Highway 110, 1.5 miles east of Sikes, La.	a 12.56
Bayou Castor at bridge on U. S. Highway 84, 0.9 mile west of Tullos, La.	a 33.05
Big Creek at bridge on State Highway 19 at Fishville, La.	a 16.47
MISSISSIPPI RIVER BASIN	
Little Bayou Sara at bridge on State Highway 124, 1.2 miles northwest of Turnbull, La.	a 12.87
Thompson Creek at bridge on State Highway 35,0.5 mile west of Jackson, La.	a 41.85
Thompson Creek at bridge on U. S. Highways 61 and 65, 1.7 miles southeast of Starhill, La.	a 46.09

Table 2.--Flood-crest stages in Louisiana and Arkansas--Continued

Stream and location	Elevation m.s.l. (feet)
Alexander Creek at bridge on State Highway 35, 1.5 miles northeast of St. Francisville, La.	a 14.18
Bayou Baton Rouge at bridge on parish road, 3 miles northwest of Baker, La., and 9.7 miles upstream from mouth.	a 22.65
MISSISSIPPI RIVER DELTA	
Chefuncte River at bridge on State Highway 35, 9 miles southwest of Franklinton, La.	a 45.48
Chefuncte River at bridge on U. S. Highway 190, 4 miles west of Covington, La.	a 19.64
Tangipahoa River at bridge on State Highway 71, 1.1 miles east of Kentwood, La.	a 12.15
Tangipahoa River at bridge on State Highway 35, 1.5 miles east of Amite, La.	a 42.19
Washley Creek at bridge on U. S. Highway 190, 2 miles east of Robert, La.	a 13.25
Tickfaw River at bridge on State Highway 35, 1.8 miles southeast of Greensburg, La.	163.02
Tickfaw River at bridge on State Highway 46, 0.5 mile northeast of Montpelier, La.	103.93
Hog Branch at bridge on U. S. Highway 190, 2 miles east of Doyle, La.	a 22.77
Tickfaw River at bridge on State Highway 160, 0.2 mile downstream from Blood River and 3.7 miles south of Springfield, La.	bc 3.90
Ponchatoula Creek at bridge on U. S. Highway 190 at Hammond, La.	b* 37.86
Ponchatoula Creek at bridge on U. S. Highway 51, 2 miles northwest of Ponchatoula, La.	b* 12.32
Yellow Water River Canal at bridge on U. S. Highway 51, 1.9 miles northwest of Hammond, La.	42.14
Yellow Water River Canal at bridge on U. S. Highway 190, 2 miles east of Baptist, La.	b 33.68
Amite River at bridge on State Highway 37, 0.5 mile southwest of Grangeville, La.	a 13.74
Amite River at bridge on State Highway 334, 0.4 mile east of Magnolia, La.	a 47.42
Comite River at bridge on State Highway 35, 1.3 miles west of Clinton, La.	a 13.28
Comite River at bridge on State Highway 884, 3.7 miles east of Zachary, La.	a 24.52

Table 2.--Flood-crest stages in Louisiana and Arkansas--Continued

Stream and location	Elevation m.s.l. (feet)
Bayou Manchac at bridge on old U. S. Highway 61 at Hope Villa, 0.75 mile downstream from Ward Creek, La.	c 14.80
Amite River at bridge on State Highway 46 at Port Vincent, La., 3.75 miles downstream from Bayou Manchac.	c* 11.96
Colyell Creek at bridge on U. S. Highway 190, 1 mile west of Livingston, La.	a 11.86
West Colyell Creek at bridge on U. S. Highway 190, 2 miles west of Walker, La.	a 10.00
Middle Colyell Creek at bridge on U. S. Highway 190, 1.3 miles east of Walker, La.	a 6.72
Petite Amite River, in SE¼ sec. 8, T. 10 S., R. 5 E., at mouth of New River Canal, 8 miles east of Sorrento, La.	b 2.85
Bayou Pierre, in NE¼ sec. 23, T. 9 S., R. 4 E., at bridge on State Highway 160, 1 mile southwest of St. Paul, La.	b 5.50
Lake Pontchartrain, 400 feet east of shoreline at Frenier, La.	b 2.5
Lake Pontchartrain at bridge on U. S. Highway 11, 2 miles northeast of South Shore, La.	b 2.8
EAST OF EAST ATCHAFALAYA FLOODWAY	
East Atchafalaya Levee borrow pit channel, between lots 1 and 65, T. 5 S., R. 8 E., near south end of culvert on State Highway 1, 2 miles east of Ravenswood, La.	bc 28.0
East Atchafalaya Levee borrow pit channel, in SE¼ sec. 27, T. 6 S., R. 8 E., upstream from U. S. Highway 190, east of guide levee, 1 mile west of Lottie, La.	b 25.4
East Atchafalaya Levee borrow pit channel, in SE¼ sec. 27, T. 6 S., R. 8 E., 50 feet downstream from U. S. Highway 190, east of guide levee, 1 mile west of Lottie, La.	b 23.38
East Atchafalaya Levee borrow pit channel, in lot 82, T. 7 S., R. 9 E., at bridge across borrow pit of Lottie-Ramah Levee, 2 miles southwest of Maringouin, La.	b* 16.08
East Atchafalaya Levee borrow pit channel, in lot 60, T. 8 S., R. 9 E., at bridge across borrow pit, 0.5 mile northwest of Ramah, La.	b* 11.8
Upper Grand River, La., in lot 2, T. 9 S., R. 10 E., at junction with East Atchafalaya Levee borrow pit channel.	b 7.02
Bayou Plaquemine, in lot 13, T. 9 S., R. 12 E., at Bayou Plaquemine entrance to Plaquemine lock at Plaquemine, La.	bc 7.1

Table 2.--Flood-crest stages in Louisiana and Arkansas--Continued

Stream and location	Elevation m.s.l. (feet)
Choctaw Bayou, in NE¼ sec. 36, T. 8 S., R. 11 E., at Texas and Pacific Railroad bridge at Morley, La.	b 10.9
Bayou Plaquemine, La., in lot 5, T. 10 S., R. 12 E., at junction with Upper Grand River.	bc 7.2
Lower Grand River, La., in SW¼ sec. 2, T. 11 S., R. 12 E., at Bayou Sorrel lock.	bc* 6.55
UPPER POINTE COUPEE AND VICINITY	
Canal lateral, in lot 52, T. 1 S., R. 7 E., 1,500 feet south of intersection of Louisiana and Arkansas R. R. and State Highway 30E, 2.5 miles west of Torras, La.	b 44.15
Bayou Thornton, in lot 90, T. 1 S., R. 7 E., at junction of Bayou Thornton with Bayou Lettsworth, 1,500 feet west of depot at Lettsworth, La.	b 40.95
Bayou Moreau, in NE¼ sec. 71, T. 1 S., R. 7 E., at bridge on State Highway 30, 3 miles northwest of Lettsworth, La.	b 40.10
Bayou Moreau, in NW¼ sec. 37, T. 1 S., R. 7 E., at bridge on State Highway 977, 3 miles east of Odenburg, La.	b 38.38
Middle Bayou, in lot 24, T. 2 S., R. 7 E., at bridge on State Highway 442, 1 mile north of McCrea, La.	b 36.90
Canal lateral, in lot 75, T. 2 S., R. 7 E., at bridge on parish road, 3 miles southwest of Innis, La.	b 38.95
State canal, in lot 29, T. 3 S., R. 7 E., at bridge on State Highway 1654, 1 mile southeast of Coon, La.	bc* 33.3
Canal lateral, in lot 38, T. 3 S., R. 7 E., 30 feet south of State Highway 442 at Batchelor, La.	b 38.85
Morganza Floodway Upper Guide Levee borrow pit, in lot 63, T. 3 S., R. 8 E., 110 feet north of intersection of State Highway 30 and Lacour spur, 3 miles southeast of Batchelor, La.	b 36.50
Bayou Latenache, in lot 9, T. 4 S., R. 7 E., at north end of drainage structure, landside of guide levee, 3 miles north of Melville, La.	b 33.10
WEST OF WEST ATCHAFALAYA FLOODWAY	
West Atchafalaya Levee borrow pit channel, in NW¼ sec. 36, T. 3 S., R. 5 E., at mouth of Bayou Rouge, 3 miles north of Palmetto, La.	b 33.15
West Atchafalaya Levee borrow pit channel, in SE¼ sec. 7, T. 4 S., R. 6 E., at bridge on State Highway 1 at Bat, La.	b* 31.30
West Atchafalaya Levee borrow pit channel, in NE¼ sec. 21, T. 6 S., R. 6 E., 2.5 miles southeast of Courtableau, La.	bc 23.6

Table 2.--Flood-crest stages in Louisiana and Arkansas--Continued

Stream and location	Elevation m.s.l. (feet)
West Atchafalaya Levee borrow pit channel, in NW¼ sec. 33, T. 6 S., R. 6 E., 4 miles south of Courtableau, La.	b 22.0
West Atchafalaya Levee borrow pit channel, in SW¼ sec. 6, T. 8 S., R. 7 E., 4.5 miles southeast of Portage, La.	b 16.40
West Atchafalaya Levee borrow pit channel, in NE¼ sec. 10, T. 9 S., R. 7 E., 4 miles southeast of New Henderson Landing, La.	b 12.70
West Protection Levee borrow pit channel, in sec. 23, T. 11 S., R. 8 E., 1.7 miles southeast of Dauterive Landing, La.	bc 8.6
Bonnie Bayou, in NE¼ sec. 27, T. 12 S., R. 8 E., at Bourgeois Landing, 0.3 mile upstream from entrance to Lake Fausse Pointe, La.	b 8.5
COURTABLEAU-TECHE SYSTEM	
Bayou Rapides, in lot 15, T. 4 N., R. 1 W., at bridge on State Highway 20 at Alexandria, La.	b 78.32
Bayou Boeuf, in lot 64, T. 4 N., R. 2 W., at bridge at Kincaid, La.	b 81.71
Bayou Boeuf on line between secs. 11 and 14, T. 3 N., R. 2 W., on State Highway 278 at Twin Bridges, La.	b 74.56
Bayou Boeuf, in SW¼ sec. 30, T. 3 N., R. 1 W., at bridge on U. S. Highway 165, 4 miles northwest of Woodworth, La.	b 72.40
Bayou Boeuf, between lots 57 and 74, T. 2 N., R. 1 W., at bridge on parish road, 0.8 mile upstream from Bayou Lamourie and 2 miles northwest of Lamourie, La.	b*72.4
Bayou Boeuf, in lot 36, T. 2 N., R. 1 W., 1.5 miles downstream from Bayou Clear and 2 miles southwest of Lamourie, La.	b 71.8
Bayou Boeuf, in lot 6, T. 1 N., R. 1 E., at U. S. Highway 71 bridge at Lyles, 4 miles northwest of Cheneyville, La.	b 68.94
Bayou Boeuf, in lot 44, T. 4 S., R. 4 E., at bridge on parish road at Biggs, 4 miles upstream from confluence with Bayou Cocodrie, La.	b 39.08
Boeuf-Cocodrie diversion channel below Lecompte control structure, in lot 6, T. 1 N., R. 1 E., 1 mile southwest of Lecompte, La.	b 71.20
Boeuf-Cocodrie diversion channel, in SW¼ sec. 6, T. 1 N., R. 1 E., at bridge on State Highway 26, 5 miles west of Cheneyville, La.	b 65.65
Boeuf-Cocodrie diversion channel, in SW¼ sec. 11, T. 1 S., R. 2 E., at bridge on State Highway 271, 2 miles north of Lonepine, La.	b 60.90
Boeuf-Cocodrie diversion channel on line between secs. 23 and 24, T. 1 S., R. 2 E., at bridge on State Highway 223, 1.5 miles east of Lonepine, La.	b 56.60

Table 2.--Flood-crest stages in Louisiana and Arkansas--Continued

Stream and location	Elevation m.s.l. (feet)
Boeuf-Cocodrie diversion channel on line between secs. 21 and 22, T. 2 S., R. 2 E., at bridge on State Highway 23, 1 mile west of Milburn. La.	b* 49.30
Bayou Cocodrie, in NE¼ sec. 30, T. 2 S., R. 2 E., at Dossman Bridge on State Highway 271, 2 miles northwest of St. Landry, La.	b 50.70
Bayou Cocodrie, in NW¼ sec. 35, T. 2 S., R. 2 E., at bridge on State Highway 23 at St. Landry, La.	b* 48.85
Bayou Cocodrie, between lot 75 and sec. 20, T. 3 S., R. 3 E., at bridge on State Highway 224, 2.7 miles southwest of Whiteville, La.	b* 42.30
Bayou Cocodrie, between lots 18 and 67, T. 4 S., R. 4 E., 2 miles west of Whipp, La.	b 40.60
Bayou Lamourie, in lot 59, T. 2 N., R. 1 W., just below bridge on parish road, 0.5 mile south of junction of Bayou Lamourie with Bayou Boeuf and 1 mile northwest of Lamourie, La.	b* 70.1
Coulie des Grues, in lot 65, T. 2 N., R. 4 E., at Texas and Pacific Railroad trestle, 1.2 miles south of Marksville, La.	bc* 53.0
Three Prong Lake, in NE¼NE¼ sec. 8, T. 1 N., R. 3 E., at bridge on State Highway 72 at Belledeau, La.	bd* 56.24
Bayou du Lac, between lots 35 and 51, at bridge on State Highway 5, 3 miles southwest of Hessmer, La.	b* 54.35
Ruth Canal, in lot 95, T. 9 S., R. 6 E., at bridge on State Highway 25 at Ruth, La., 2 miles northeast of control structure and 0.3 mile southwest of Bayou Teche.	bd 15.7
Bayou Teche, in lot 8, T. 11 S., R. 6 E., at Keystone Lock, upper and lower gage, 3.5 miles south of St. Martinville, La.	be 12.0 (upper) be 11.8 (lower)
VERMILION RIVER BASIN	
Vermilion River, between lots 61 and 88, T. 8 S., R. 5 E., at Tontons Bridge on State Highway 988, 2.2 miles downstream from confluence of Bayou Carencro and Bayou Fusillier, 4 miles southwest of Arnaudville, La.	bc* 21.1
Vermilion River, between lots 72 and 92, T. 9 S., R. 5 E., at bridge on State Highway 43 at Long Bridge, La., 2 miles upstream from Ruth Canal.	bce* 13.9
Vermilion River, in lot 19, T. 9 S., R. 5 E., on Ruth Canal, 50 feet upstream from Vermilion River, and 1.6 miles southeast of Long Bridge, La.	be 12.93
Vermilion River, between lots 46 and 47, T. 10 S., R. 4 E., at Pin Hook Bridge on U. S. Highway 90, 0.9 mile south of Lafayette, La.	b* 10.65

Table 2.--Flood-crest stages in Louisiana and Arkansas--Continued

Stream and location	Elevation m.s.l. (feet)
Vermilion River, between lots 76 and 77, T. 10 S., R. 4 E., at Broussard Bridge on State Highway 538, 2.5 miles north of Milton, La.	b 10.78
Bayou Ile des Cannes at bridge on State Highway 176, 6 miles southwest of Lafayette, La.	a 17.48
Vermilion River, in lot 54, T. 12 S., R. 3 E., at north intake of Abbeville Pumping Plant, 1.5 miles southwest of Abbeville, La.	b 7.22
MERMENTAU RIVER BASIN	
East Fork Bayou Nezpique at bridge on State Highway 26, 4 miles north of Reddel, La.	a 18.93
Cypress Creek at bridge on State Highway 482, 3 miles west of Pine Prairie, La.	a 18.50
Beaver Creek at bridge on State Highway 22, 0.5 mile southeast of Beaver and 6.4 miles east of Oakdale, La.	a 19.17
Bayou Mallet at bridge on State Highway 26, 3.5 miles south of Eunice, La.	a 21.60
Bayou Wikoff at bridge on State Highway 40, 3.5 miles north of Rayne, La.	a 20.06
Bayou Plaquemine Brule, between lots 50 and 51, T. 10 S., R. 1 W., at Estherwood Pumping Plant at State Highway 1017, 1 mile north of Estherwood, La.	b 14.8
Mermentau River, between lots 14 and 31, T. 10 S., R. 2 W., at Southern Pacific Railroad bridge at Mermentau, La.	b* 12.8
Bayou Queue de Tortue, in E½ sec. 9, T. 11 S., R. 2 W., at Premeaux Pumping Plant, 4 miles northwest of Riceville, La.	b 9.0
Mermentau River, in center sec. 16, T. 12 S., R. 4 W., on right bank at Lacassine Wildlife Refuge Headquarters, La.	b 5.40
CALCASIEU RIVER BASIN	
Big Creek at bridge on State Highway 21, 1.4 miles east of Leander, La.	a 14.95
Calcasieu River at bridge on State Highway 21, 1 mile south of Hineston, La.	a 21.40
Barnes Creek at bridge on U. S. Highway 190, 5.5 miles west of Reeves, La.	50.60
Clear Creek at bridge on U. S. Highway 190, at west edge of Reeves, La.	36.29
Calcasieu River at bridge on U. S. Highway 171, 5 miles north of Lake Charles, La.	14.81

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Table 2.--Flood-crest stages in Louisiana and Arkansas--Continued

Stream and location	Elevation m.s.l. (feet)
Hickory Branch at bridge on State Highway 285, 2.1 miles west of Longville, La.	a 20.7
Calcasieu River, in SW¼ sec. 12, T. 9 S., R. 8 W., at Old Town Bay, 2.5 miles east of Moss Bluff, La.	b 16.1
West Fork Calcasieu River, in NW¼SE¼ sec. 10, T. 9 S., R. 9 W., about 1,500 feet downstream from Houston River, 5.5 miles northwest of Lake Charles, La.	b* 12.75
Calcasieu River, in SE¼ sec. 2, T. 10 S., R. 9 W., at east end of docks of Lake Charles Harbor Terminal District, about 0.1 mile downstream from bridge on U. S. Highway 90 and 2 miles west of Lake Charles, La.	b 9.20
Calcasieu River and Pass, in T. 12 S., R. 10 W., at wharf of Sun Oil Co., 1 mile north of Hackberry, La.	b 4.00
SABINE RIVER BASIN	
Bayou Scie at bridge on U. S. Highway 171, 1.0 mile east of Zwolle, La.	a 13.73
Harpoon Bayou at bridge on U. S. Highway 171, 0.7 mile northwest of Many, La.	a 13.61
Lewis Creek at bridge on U. S. Highway 171, 3.0 miles northwest of Many, La.	a 16.47
Bayou Toro at bridge on U. S. Highway 171, 4.0 miles south of Florien, La.	a 50.54
West Anacoco Creek at bridge on U. S. Highway 171, 2.5 miles southeast of Hornbeck, La.	a 18.31
East Anacoco Creek at bridge on U. S. Highway 171, 2.0 miles southeast of Anacoco, La.	a 48.70
Prairie Creek at bridge on U. S. Highway 171, 2.5 miles northwest of Leesville, La.	a 47.69

a Gage height referred to an arbitrary datum.
b Furnished by Corps of Engineers.
c Maximum observed.
d Mean Gulf level.
e Mean low Gulf.
* Miscellaneous discharge measurements shown in table 4.

Table 3.--Flood-crest stages on lower Red River
[Furnished by Corps of Engineers]

Designation of gage	Miles above mouth (1938)	Date (1953)	Elevation m.s.l. (feet)
Spring Bank, Ark.--	377.8	May 19	201.22
H. W. No. 56-------	373.6	do.	198.21
H. W. No. 55-------	368.5	------	------
H. W. No. 54-------	368.5	May 19	194.54
H. W. No. 53-------	363.0	do.	190.54
H. W. No. 52-------	357.5	do.	186.13
H. W. No. 51-------	351.8	May 20	183.91
H. W. No. 50-------	340.7	do.	178.90
H. W. No. 49-------	335.2	do.	175.67
H. W. No. 48-------	329.8	do.	170.84
H. W. No. 47-------	324.2	do.	168.26
H. W. No. 46-------	319.4	do.	166.24
H. W. No. 45-------	315.2	do.	163.40
Shreveport, La.----	310.2	May 20, 21	158.88
H. W. No. 44-------	306.2	May 20	156.44
H. W. No. 43-------	300.0	do.	155.56
H. W. No. 42-------	295.2	do.	153.09
H. W. No. 41-------	290.4	May 21	150.14
H. S. No. 40-------	285.5	do.	148.67
H. W. No. 39-------	281.5	do.	146.67
H. W. No. 38-------	275.5	do.	143.33
H. W. No. 37-------	269.7	do.	142.53
H. W. No. 36-------	265.5	do.	141.28
H. W. No. 35-------	260.3	do.	138.65
H. W. No. 34-------	254.8	do.	136.13
H. W. No. 33-------	249.6	do.	132.92
Coushatta, La.-----	239.7	do.	130.14
H. W. No. 32-------	238.61	do.	129.89
H. W. No. 31-------	236.0	do.	126.59
H. W. No. 30-------	233.8	do.	126.30
H. W. No. 29-------	229.5	do.	124.40
H. W. No. 28-------	222.0	do.	121.65
H. W. No. 27-------	215.2	May 22	118.85
H. W. No. 26-------	210.8	do.	117.55
Grand Ecore, La.---	206.4	May 22, 23	115.59
H. W. No. 25-------	201.7	May 23	114.33
H. W. No. 24-------	197.0	May 22, 23	112.75
H. W. No. 23-------	190.8	do.	111.22
H. W. No. 22-------	186.5	May 23	109.52
H. W. No. 21-------	181.5	do.	108.18
H. W. No. 20-------	176.5	do.	106.69
H. W. No. 19-------	172.5	do.	105.08
H. W. No. 18-------	165.0	do.	102.91
Colfax, La.--------	160.6	May 23	101.45
H. W. No. 17-------	154.8	do.	99.68
H. W. No. 16-------	146.5	do.	98.13
H. W. No. 15-------	142.8	May 23, 24	95.58
H. W. No. 14-------	138.4	May 23	93.87
H. W. No. 13-------	131.8	do.	91.17
H. W. No. 12-------	126.6	do.	89.62
Alexandria, La.----	122.3	May 24	86.31
H. W. No. 11-------	116.6	May 25	84.06
H. W. No. 10-------	109.5	do.	80.66
H. W. No. 9--------	103.8	May 24, 25	78.62
H. W. No. 8--------	99.2	May 25	77.26
H. W. No. 7--------	94.7	May 24	75.53
H. W. No. 6--------	90.5	May 25	73.10
H. W. No. 5--------	87.0	May 24	70.05
Moncla, La.--------	83.1	May 25	68.42
H. W. No. 4--------	74.3	May 24	66.18
H. W. No. 3--------	70.0	do.	64.33
H. W. No. 2--------	65.6	do.	61.65
H. W. No. 1--------	52.0	do.	59.22

MISCELLANEOUS DISCHARGE MEASUREMENTS

At many locations where flood-crest stages were obtained, miscellaneous discharge measurements were also made. Table 4 presents the results of these measurements.

Records of gage height from April 1 to June 30 and results ofoccasional discharge measurements are given for six locations.

Table 4.--Discharge measurements in Louisiana

[Furnished by Corps of Engineers except as noted]

Stream and location	Date (1953)	Time	Elevation m.s.l. (feet)	Discharge (cfs)
Cross Bayou at Market St., at Shreveport.	May 22	1 p.m.	159.55	20,800
Cypress Bayou at State Highway 181 near Benton.	Apr. 29	5 p.m.	179.60	4,920
Red Chute Bayou near Shreveport------	May 1	3 p.m.	162.37	2,140
	7	10 a.m.	162.78	2,500
	11	2 p.m.	162.32	2,930
	June 5	1 p.m.	161.72	2,040
Alligator Bayou near Shreveport------	May 1	9 a.m.	160.72	118
	7	2 p.m.	161.14	142
Shell Bayou near Shreveport----------	May 1	12 m.	161.00	1,370
	7	1 p.m.	161.50	1,260
Bayou Dorcheat near Sarepta----------	Apr. 30	11 a.m.	184.38	10,900
	May 3	11 a.m.	184.03	9,220
	7	11 a.m.	182.42	4,570
	19	2 p.m.	183.98	15,700
Red River at Coushatta---------------	Apr. 10	12 m.	114.11	65,700
	May 3	12 m.	123.13	134,000
	5	2 p.m.	124.35	130,000
	6	12 m.	124.09	126,000
	15	2 p.m.	123.77	165,000
	21	1 p.m.	130.14	194,000
	29	11 a.m.	124.18	99,300
Bayou Pierre near Gayles-------------	Apr. 29	11 a.m.	142.69	3,190
Bayou Pierre near Grand Bayou--------	Apr. 3	1 p.m.	108.23	283
	30	12 m.	125.92	7,370
	May 3	4 p.m.	126.11	6,570
Bayou Pierre near Lake End-----------	May 19	2 p.m.	124.59	9,690
Cane River near Galbraith------------	May 1	1 p.m.	91.21	7,460
	4	11 a.m.	94.30	6,670
	6	2 p.m.	95.47	6,230
	12	8 a.m.	93.02	7,220
	June 15	12 m.	78.74	5,500
	29	11 a.m.	66.90	342
Bayou Rigolette near Colfax---------	May 5	5 p.m.	86.29	2,180
	21	3 p.m.	92.33	7,280
	27	2 p.m.	89.39	2,710
	June 9	12 m.	83.92	1,730

Table 4.--Discharge measurements in Louisiana--Continued

[Furnished by Corps of Engineers except as noted]

Stream and location	Date (1953)	Time	Elevation m.s.l. (feet)	Discharge (cfs)
Red River at Barbre Landing---------	Apr. 8	2 p.m.	36.31	104,000
	22	1 p.m.	33.43	93,400
	May 6	9 a.m.	38.39	183,000
	20	9 a.m.	41.93	167,000
	June 3	1 p.m.	42.75	194,000
	17	9 a.m.	30.75	200,000
	22	12 m.	28.47	178,000
Ponchatoula Creek at Hammond--------	May 4	12 m.	36.32	2,040
Ponchatoula Creek near Ponchatoula--	May 4	3 p.m.	10.75	2,650
Yellow Water River Canal at U. S. Highway 51, northwest of Hammond.	May 4	2 p.m.	41.40	a 2,150
	5	12 m.	37.10	a 605
Hog Branch at U. S. Highway 190, east of Doyle.	May 4	5 p.m.	b 20.58	a 8,080
Amite River at State Highway 37 at Grangeville.	Apr. 25	1 p.m.	b 7.12	a 3,400
	26	9 a.m.	b 6.76	a 2,950
Amite River at Port Vincent----------	May 6	11 a.m.	10.76	32,200
West Colyell Creek at U. S. Highway 190, west of Walker.	May 4	12 m.	b 9.66	a 1,220
Middle Fork Colyell Creek at U. S. Highway 190, east of Walker.	May 4	12 m.	0.24	a 518
Colyell Creek at U. S. Highway 190, west of Livingston.	May 4	2 p.m.	b 11.30	a 2,330
East Atchafalaya Levee borrow pit channel, 3 miles northwest of Fordoche.	May 20	11 a.m.	23.25	233
East Atchafalaya Levee borrow pit channel, 5 miles southeast of Lottie.	May 20	4 p.m.	22.35	932
East Atchafalaya Levee borrow pit channel near Maringouin.	May 21	10 a.m.	13.10	2,000
East Atchafalaya Levee borrow pit channel near Ramah.	May 21	2 p.m.	9.40	2,300
Bayou Maringouin, 1.8 miles south of Ramah.	May 22	10 a.m.	8.50	21
Bayou Grosse Tete at Rosedale--------	May 13	9 a.m.	8.75	1,190
	20	10 a.m.	13.60	2,380
	28	10 a.m.	12.40	2,100
Lower Grand River near Bayou Sorrel Lock.	May 13	12 m.	5.15	3,880
	20	1 p.m.	6.50	5,820
	28	1 p.m.	6.82	6,100
State canal, 1 mile south of Coon----	May 5	10 a.m.	29.45	1,600
	16	11 a.m.	29.38	1,610
	17	10 a.m.	29.45	1,480

Table 4.--Discharge measurements in Louisiana--Continued

[Furnished by Corps of Engineers except as noted]

Stream and location	Date	Time	Elevation m.s.l. (feet)	Discharge (cfs)
State caral at Pointe Coupee drainage structure, 2 miles north of Melville.	May 5	9 a.m.	28.45	2,400
	6	11 a.m.	28.40	2,300
	16	9 a.m.	28.43	2,220
	17	8 a.m.	28.65	2,280
	20	11 a.m.	33.10	4,470
	21	11 a.m.	32.95	4,280
	25	9 a.m.	30.90	2,820
	26	10 a.m.	30.35	2,530
	June 3	9 a.m.	26.70	328
Bayou Cocodrie at St. Landry----------	Apr. 2	12 m.	38.85	580
	16	12 m.	37.45	493
	May 1	12 m.	41.75	1,740
	7	1 p.m.	44.15	1,920
	28	2 p.m.	45.15	3,850
Bayou Cocodrie near Whiteville--------	Apr. 4	10 a.m.	24.45	602
	16	10 a.m.	22.50	368
	May 1	9 a.m.	31.00	4,120
	7	10 a.m.	34.80	5,060
	21	10 a.m.	42.00	8,940
	28	11 a.m.	39.25	3,000
Bayou Boeuf near Lamourie----------	May 27	12 m.	c 70.30	1,360
Bayou Boeuf at State Highway 24, south of Lamourie.	Apr. 30	11 a.m.	66.85	2,860
	May 4	1 p.m.	68.25	2,750
	6	11 a.m.	68.15	3,440
	8	11 a.m.	67.80	3,500
	11	10 a.m.	66.90	3,260
	20	11 a.m.	70.30	4,990
	27	10 a.m.	69.24	4,130
Bayou Boeuf at Lyles----------	Apr. 30	10 a.m.	64.50	435
	May 4	10 a.m.	67.10	530
	6	10 a.m.	66.55	471
	8	9 a.m.	66.10	476
	11	9 a.m.	65.30	378
	25	12 m.	67.40	659
	27	9 a.m.	66.87	540
	June 22	11 a.m.	59.80	79
Boeuf-Cocodrie diversion channel at Milburn.	May 7	11 a.m.	43.00	2,240
	June 5	9 a.m.	42.00	1,290
Bayou Courtableau above Bayou Teche at Port Barre.	Apr. 21	9 a.m.	c 16.15	376
	May 11	9 a.m.	c 21.50	6,230
	16	8 a.m.	c 24.21	7,840
	20	1 p.m.	c 27.15	11,200
	25	11 a.m.	c 27.94	15,200
	29	12 m.	c 26.90	13,000
	June 9	9 a.m.	c 22.85	7,340
	30	11 a.m.	c 18.60	1,270
Bayou Lamourie at Lamourie----------	Apr. 30	12 m.	c 66.75	254
	May 4	2 p.m.	c 66.30	179
	6	12 m.	c 65.20	195
	8	12 m.	c 68.00	443
	20	12 m.	c 69.80	724
	27	11 a.m.	c 68.39	615

Table 4.--Discharge measurements in Louisiana--Continued

[Furnished by Corps of Engineers except as noted]

Stream and location	Date	Time	Elevation m.s.l. (feet)	Discharge (cfs)
Three Prong Lake at Belledeau-------	Apr. 30	11 a.m.	c 51.60	733
	May 6	12 m.	c 53.80	2,300
	8	12 m.	c 53.50	660
	19	12 m.	c 56.10	3,740
Coulee des Grues near Marksville----	Apr. 30	9 a.m.	49.35	838
	May 4	10 a.m.	51.00	1,260
	6	11 a.m.	52.00	1,520
	8	11 a.m.	52.00	1,560
	12	10 a.m.	51.00	1,290
	19	11 a.m.	54.40	2,170
	26	11 a.m.	53.80	2,010
	June 23	10 a.m.	46.00	75
Bayou du Lac near Hessmer----------	Apr. 30	2 p.m.	45.00	2,640
	May 4	12 m.	49.68	3,840
	6	9 a.m.	50.65	2,850
	8	9 a.m.	50.66	2,300
	12	9 a.m.	50.00	**1,880**
	19	2 p.m.	54.20	4,010
	25	11 a.m.	54.00	3,810
West Protection Levee borrow pit channel at Bat.	May 5	2 p.m.	c 25.45	6,700
	21	10 a.m.	c 30.90	9,490
	23	9 a.m.	c 31.20	8,650
	24	9 a.m.	c 31.09	8,980
	27	10 a.m.	c 30.22	7,700
Bayou Teche at State Highway 25 below Ruth Canal.	May 23	3 p.m.	d 14.54	1,980
	27	3 p.m.	d 13.55	2,410
	30	3 p.m.	d 13.65	2,260
	June 10	10 a.m.	d 9.90	903
	17	10 a.m.	d 8.05	350
Bayou Teche above Loreauville Canal at Vida.	May 7	3 p.m.	3.15	1,040
	13	11 a.m.	3.10	997
	22	10 a.m.	7.18	2,690
	31	3 p.m.	7.97	1,920
	June 2	9 a.m.	8.10	2,760
	9	3 p.m.	8.15	1,220
	17	1 p.m.	6.95	628
	19	1 p.m.	6.25	182
Loreauville Canal at State Highway 56 near Vida.	May 7	1 p.m.	3.15	482
	13	9 a.m.	3.10	487
	22	12 m.	7.12	1,110
	31	2 p.m.	7.90	572
	June 2	10 a.m.	8.10	148
	19	2 p.m.	6.30	322
	24	1 p.m.	4.85	125
Bayou Fusilier at Arnaudville--------	Apr. 23	7 a.m.	11.80	41
	May 16	2 p.m.	21.05	588
	20	5 p.m.	24.23	1,600
	25	2 p.m.	24.11	1,920
	June 2	2 p.m.	21.20	637
Vermilion River at Tontons Bridge----	May 16	4 p.m.	d 17.08	2,930
Vermilion River at Long Bridge-------	May 21	11 a.m.	12.09	5,260

Table 4.--Discharge measurements in Louisiana--Continued

[Furnished by Corps of Engineers except as noted]

Stream and location	Date	Time	Elevation m.s.l. (feet)	Discharge (feet)
Ruth Canal at Bayou Teche---------- (Regulated by gage opening).	May 23	4 p.m.	c 14.48	797
	25	2 p.m.	c 13.20	876
	27	5 p.m.	c 13.65	451
	June 10	12 m.	c 9.90	412
	17	11 a.m.	c 7.80	243
Vermilion River at Lafayette---------	May 19	10 a.m.	10.6	79
	20	8 a.m.	10.0	3,050
	25	3 p.m.	7.94	5,170
	June 2	1 p.m.	6.62	2,730
	10	8 a.m.	4.97	3,020
	17	8 a.m.	2.32	2,060
Coulee Isle des Cannes at State Highway 43 near Maurice.	May 19	2 p.m.	d 17.10	3,040
Vermilion River at Milton----------	May 19	4 p.m.	d 11.08	5,580
Vermilion River at Abbeville---------	May 19	5 p.m.	7.66	7,090
Mermentau River at Mermentau---------	Apr. 27	7 a.m.	3.32	4,480
	May 26	11 a.m.	10.25	29,900
	28	1 p.m.	7.72	17,800
	June 1	12 m.	4.30	3,770
	3	9 a.m.	3.74	323
Bayou Queue de Tortue at State Highway 128 at Riceville.	Apr. 27	9 a.m.	5.60	2,080
	May 28	9 a.m.	7.42	1,850
	June 1	3 p.m.	4.78	1,110
Mermentau River at State Highway 25 at Lake Arthur.	Apr. 27	11 a.m.	c 3.30	7,840
	May 27	12 m.	c 6.28	39,800
	29	10 a.m.	c 5.41	23,800
	June 2	10 a.m.	c 4.00	4,820
Calcasieu River at U. S. Highway 171 near Lake Charles.	May 5	2 p.m.	7.80	47,400
	12	9 a.m.	4.75	24,800
	28	8 a.m.	5.35	17,000
West Fork Calcasieu River northwest of Lake Charles.	May 5	9 a.m.	5.60	7,180
	12	11 a.m.	3.80	4,640
	28	12 m.	4.05	2,880

a Measurement at crest-stage gage by Geological Survey.
b Gage height.
c Mean Gulf level.
d Mean low Gulf (-0.78 ft m.s.l.).

Red River Basin

Bayou Bodcau at Bodcau Dam near Bellevue, La.

Location.--Lat 32°42'04", long 93°30'44", in sec. 21, T. 20 N., R. 11 W., at downstream end outlet structure of stilling basin, 2 miles northeast of Bellevue and 24 miles northeast of Shreveport. Datum of gage is at mean sea level, datum of 1929, supplementary adjustment of 1941.

Drainage area.--683 sq mi.

Gage-height record.--Water-stage recorder graph.

Discharge record.--Occasional discharge measurements; records published by Mississippi River Commission.

Maxima.--April-June 1953: Elevation, 167.16 ft 1-3 a.m. May 19.
1949 to March 1953: Elevation, 165.51 ft Feb. 18, 1950.
The flood of May 22, 1930 reached an elevation of 170.8 ft (estimated).

Remarks.--Records furnished by Corps of Engineers.

Elevation, in feet, and discharge measurements, in cubic feet per second, at 7 a.m. of indicated day, 1953

April	Elevation	Discharge	May	Elevation	Discharge	June	Elevation	Discharge
1	163.1	1,570	1	165.1		1	165.7	
2	163.0		2	165.6		2	165.6	
3	162.9		3	165.6		3	165.5	2,700
4	162.9		4	165.7		4	165.4	
5	162.8		5	165.8		5	165.3	
6	162.8		6	165.8		6	165.2	
7	162.6		7	165.8	2,340	7	165.2	
8	162.6	1,360	8	165.8		8	165.1	
9	162.5		9	165.7		9	165.0	
10	162.4		10	165.6		10	164.9	2,580
11	162.2		11	165.5		11	164.8	
12	162.1		12	165.6		12	164.7	
13	162.0		13	165.6	2,390	13	164.6	
14	161.8		14	165.9		14	164.5	
15	161.7	1,150	15	166.2		15	164.4	
16	161.5		16	166.6		16	164.3	
17	161.3		17	167.0		17	164.2	2,190
18	161.1		18	167.13		18	164.1	
19	161.0		19	*167.16		19	164.1	
20	160.8		20	167.15		20	164.0	
21	160.7		21	167.0		21	163.9	
22	160.7	611	22	166.9		22	163.8	
23	160.6		23	166.7		23	163.7	
24	160.7		24	166.6		24	163.6	1,820
25	160.9		25	166.5		25	163.5	
26	161.1		26	166.4		26	163.4	
27	161.3		27	166.2	2,870	27	163.3	
28	161.9		28	166.1		28	163.2	
29	162.9		29	166.0		29	163.1	
30	164.0		30	165.9		30	163.0	
			31	165.8				

*Staff-gage reading during the day

Red River Basin

Cypress Bayou near Frierson, La.

Location.--Lat 32°18'25", long 93°39'05", in NE¼ sec. 12, T. 15 N., R. 13 W., at bridge on parish road, 1.4 miles downstream from Wallace Lake Dam, 1.9 miles upstream from confluence with Bayou Pierre and 4.5 miles northeast of Frierson. Datum of gage is 100.00 ft above mean sea level, datum of 1929, supplementary adjustment of 1941.

Drainage area.--268 sq mi.

Gage-height record.--Water-stage recorder graph.

Discharge record.--Peak discharges defined by current-meter measurements. Stage-discharge relation affected by backwater from Bayou Pierre.

Maxima.--April-June 1953: Gage height, 43.26 ft 11 a.m. April 30.
1937-38, 1947 to March 1953: Gage height, 43.4 ft Apr. 9, 1938 (discharge, 4,360 cfs).
The flood of 1933 reached a stage of 53.7 ft (from floodmark).

Remarks.--Records furnished by Corps of Engineers.

Gage height, in feet, and discharge measurements, in cubic feet per second, at 8 a.m. of indicated day, 1953

April	Gage height	Discharge	May	Gage height	Discharge	June	Gage height	Discharge
1	30.4		1	42.7		1	35.0	
2	30.1	147	2	42.0	2,420	2	34.2	
3	29.8		3	41.4		3	33.5	
4	29.5		4	41.7		4	32.8	482
5	29.2		5	42.1		5	32.1	
6	29.5		6	41.6		6	31.4	
7	29.5		7	41.1		7	30.7	
8	29.7		8	40.6	2,090	8	30.2	
9	29.7		9	40.2		9	29.7	
10	29.5		10	39.7		10	29.3	
11	29.3		11	39.2		11	29.0	
12	30.2		12	40.2		12	28.7	
13	29.8		13	40.0		13	28.5	
14	29.6		14	40.5	1,830	14	28.2	
15	29.6		15	41.4		15	28.0	
16	29.4	92	16	42.5		16	27.9	.235
17	29.2		17	43.2		17	27.7	
18	29.1		18	42.6		18	27.6	
19	28.8		19	42.1	2,550	19	27.6	
20	28.7		20	41.7		20	27.5	
21	28.5		21	41.3		21	27.4	
22	28.4		22	40.9		22	27.3	
23	28.3		23	40.6		23	27.3	
24	28.2		24	40.1		24	27.2	
25	28.6		25	39.7		25	27.2	
26	28.8		26	39.3		26	27.2	
27	28.9		27	38.7		27	27.2	
28	28.8		28	38.0	1,550	28	27.2	
29	38.7		29	37.3		29	27.2	
30	43.25		30	36.7		30	27.2	
			31	35.9				

Red River Basin

Bayou Pierre near Natchitoches, La.

Location.--Lat 31°48'10", long 93°09'15", between secs. 47 and 48, T. 10 N., R. 8 W., at bridge on State Highway 20, 4.7 miles upstream from mouth and 5.0 miles northwest of Natchitoches. Datum of gage is 71.94 ft above mean sea level, datum of 1929.

Drainage area.--1,122 sq mi.

Gage-height record.--Water-stage recorder graph.

Discharge record.--Occasional discharge measurements. Stage-discharge relation affected by backwater from Red River.

Maxima.--April-June 1953: Gage height, 45.09 ft 4 p.m., May 22.
1946, 1948 to March 1953: Gage height, 41.6 ft Feb. 22, 1950.

Remarks.--Records furnished by Corps of Engineers.

Gage height, in feet, and discharge measurements, in cubic feet per second, at 8 a.m. of indicated day, 1953

April	Gage height	Discharge	May	Gage height	Discharge	June	Gage height	Discharge
1	22.6		1	35.8		1	35.3	8,010
2	21.8		2	36.2		2	33.1	
3	21.1	727	3	36.8		3	30.9	
4	20.7		4	37.6		4	28.5	
5	20.7		5	38.6		5	26.9	
6	20.9		6	39.0	10,500	6	25.7	
7	21.0	357	7	38.9		7	24.6	
8	21.0		8	38.5		8	23.7	804
9	21.5		9	38.0		9	22.8	
10	24.7		10	37.4		10	21.8	
11	26.2		11	36.6	10,400	11	21.1	
12	26.5		12	35.7		12	20.5	
13	25.8		13	35.5		13	20.0	
14	24.9	431	14	35.8		14	19.5	
15	24.1		15	37.2		15	19.1	248
16	23.6		16	38.7		16	18.8	
17	22.9		17	40.8		17	18.4	
18	22.2		18	43.5		18	18.0	
19	21.6		19	44.2		19	17.8	
20	21.0		20	44.6		20	17.5	
21	20.7	254	21	44.9		21	17.2	
22	20.4		22	45.07		22	17.0	
23	20.0		23	45.0		23	16.8	
24	19.5		24	44.8		24	16.4	
25	19.6		25	44.6		25	16.1	
26	20.2		26	44.0		26	15.8	
27	20.7	0	27	43.3		27	15.7	
28	23.5		28	42.3		28	15.6	
29	30.1		29	41.2		29	15.6	
30	35.2	16,300	30	39.7		30	15.4	
			31	37.7				

Mississippi River Delta

Catahoula Lake near Catahoula, La.

Location.--Lat 30°12'40", long 91°42'10", between sec. 31, T. 9 S., R. 6 E., and sec. 36, T. 9 S., R. 7 E., Louisiana meridian at bridge on State Highway 86, 0.6 mile west of the West Protection Levee and 2.5 miles northeast of town of Catahoula. Datum of gage is at mean sea level.

Drainage area.--Indeterminate.

Gage-height record.--Water-stage recorder graph except May 9-14.

Discharge record.--Occasional discharge measurements.

Maxima.--April-June 1953: Elevation, 11.43 ft 6:30 a.m. May 31. 1932-39 (intermittent), 1940 to March 1953: Elevation, 15.8 ft Mar. 11, 1932.

Remarks.--Records furnished by Corps of Engineers.

Elevation, in feet, and discharge measurements, in cubic feet per second, at 8 a.m. of indicated day, 1953

April	Elevation	Discharge	May	Elevation	Discharge	June	Elevation	Discharge
1	2.7		1	5.0		1	11.40	27,300
2	2.2		2	5.0		2	11.38	
3	1.9		3	5.1		3	11.3	
4	1.7		4	5.6		4	11.2	24,300
5	1.4		5	6.2		5	11.1	
6	1.7		6	6.4	9,590	6	10.9	
7	1.8		7	6.5		7	10.8	
8	1.7		8	6.6		8	10.6	19,400
9	1.8		9			9	10.4	
10	1.5		10			10	10.1	
11	1.2		11			11	9.9	17,100
12	1.4		12			12	9.6	
13	1.0		13			13	9.3	
14	.7	0	14			14	9.1	
15	1.3		15	7.1		15	8.9	9,940
16	1.3		16	7.5		16	8.6	
17	1.0		17	7.8	13,300	17	8.3	
18	1.7		18	8.0		18	8.0	7,870
19	1.1		19	8.9		19	7.7	
20	.7		20	9.4		20	7.4	
21	.5		21	9.8	18,600	21	7.0	
22	.7		22	10.0		22	6.6	
23	.8		23	10.2	21,200	23	6.0	0
24	1.2		24	10.5	23,400	24	5.5	
25	4.0		25	10.8	24,900	25	5.0	
26	5.1		25	11.0	26,600	26	4.6	
27	5.2		27	11.1	25,800	27	4.2	
28	5.0		28	11.2	24,800	28	3.9	
29	4.5		29	11.37	27,000	29	3.7	
30	4.9		30	11.40	27,700	30	3.5	
			31	11.42	26,600			

Mississippi River Delta

West Protection Levee borrow pit channel at New Henderson Landing, La.

Location.--Lat 30°18'50", long 91° 47'20", in NE¼ sec. 31, T. 8 S., R. 7. E., Louisiana meridian at bridge on State Highway C-1957 at New Henderson Landing. Datum of gage is at mean sea level, datum of 1929.

Drainage area.--Indeterminate.

Gage-height record.--Water-stage recorder graph except May 15 to June 25.

Discharge record.--Occasional discharge measurements.

Maxima.--April-June 1953: Elevation observed, 13.1 ft May 29, 30.
1932 to March 1950: Elevation, 18.4 ft Mar. 11, 1932, affected by overflow through West Protection Levee crevasse.

Remarks.--Records furnished by Corps of Engineers.

Elevation, in feet, and discharge measurements, in cubic feet per second, at 8 a.m. of indicated day, 1953

April	Elevation	Discharge	May	Elevation	Discharge	June	Elevation	Discharge
1	2.9		1	6.2		1	*12.9	34,100
2	2.3		2	6.1		2		
3	2.0		3	6.1		3		
4	1.6		4	7.2		4	*12.5	31,800
5	1.8		5	8.0		5		
6	1.7		6	8.3	10,500	6		
7	1.6		7	8.5		7		
8	1.5		8	8.5		8	*11.5	16,800
9	1.6		9	8.4		9		
10	1.5		10	8.3		10		
11	1.1		11	8.1		11	*10.7	11,900
12	1.3		12	7.9		12		
13	.8		13	8.0		13		
14	.8		14	8.4		14		
15	1.1		15			15		8,940
16	1.1		16			16		
17	.8		17	*9.8	15,600	17		
18	1.6		18			18	*8.5	5,680
19	1.0		19			19		
20	.6		20			20		
21	.4		21		19,100	21		
22	.6		22			22		
23	.7		23	*12.2	29,600	23	*5.8	0
24	1.1		24	*12.5	32,400	24		
25	4.8		25	*12.6	34,700	25		
26	6.6		26	*12.8	33,800	26	4.6	
27	6.7		27	*12.8	35,400	27	4.2	
28	6.0		28	*13.0	35,300	28	3.8	
29	5.1		29	*13.1	37,900	29	3.7	
30	5.9		30	*13.1	34,700	30	3.4	
			31	*13.0	33,500			

*Staff-gage reading during the day

Mississippi River Delta

Bayou Teche at Port Barre, La.

Location.--Lat 30°33'30", long 91°57'30", in lot 4, T. 6 S., R. 5 E., Louisiana meridian, at highway bridge at Port Barre, 0.2 mile downstream from head at Bayou Courtableau and 1.2 miles upstream from New Orleans, Texas and Mexico Railroad bridge. Datum of gage is at mean sea level.

Drainage area.--Indeterminate.

Gage-height record.--Water-stage recorder graph except Apr. 22-29, June 18.

Discharge record.--Occasional discharge measurements.

Maxima.--April-June 1953: Elevation, 28.27 ft 10 p.m. May 24.
1938 to March 1953: Elevation, 26.6 ft Aug. 10, 1940.

Remarks.--Records furnished by Corps of Engineers. Bayou Teche heads in Bayou Courtableau at Port Barre. At low flow all discharge of the Courtableau-West Protection Levee borrow pit channel goes through Teche, but at higher stages some flow passes over the Courtableau weirs and continues down the borrow pit channel.

Elevation, in feet, and discharge measurements, in cubic feet per second, at 8 a.m. of indicated day, 1953

April	Elevation	Discharge	May	Elevation	Discharge	June	Elevation	Discharge
1	18.3		1	20.0		1	25.9	
2	18.2		2	19.9		2	25.5	
3	18.2		3	19.8		3	25.1	
4	18.1		4	20.6		4	24.6	
5	18.0		5	21.3		5	24.2	
6	17.9		6	21.4		6	23.8	
7	17.8		7	21.4		7	23.4	
8	17.6		8	21.3		8	23.6	
9	17.5		9	21.1		9	22.8	1,960
10	17.4		10	21.1		10	22.6	
11	17.3		11	21.0	1,290	11	22.3	
12	17.2		12	21.0		12	22.0	
13	17.1		13	22.0		13	21.7	
14	16.8		14	21.9		14	21.5	
15	16.6		15	22.6		15	21.1	
16	16.5		16	24.1	408	16	20.8	
17	16.2		17	23.7		17	20.4	
18	16.0		18	25.0		18		
19	15.8		19	26.7		19	19.7	
20	15.6		20	27.1	1,230	20	19.3	
21	15.5	615	21	27.5		21	18.8	
22			22	28.0		22	18.4	
23			23	28.2		23	18.2	
24			24	28.25	2,320	24	18.0	
25			25	28.2	2,300	25	18.1	
26			26	28.1		26	18.0	
27			27	27.8		27	17.9	
28			28	27.5		28	17.9	
29			29	27.0		29	18.1	
30	19.7		30	26.6		30	18.2	1,190
			31	26.3				

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