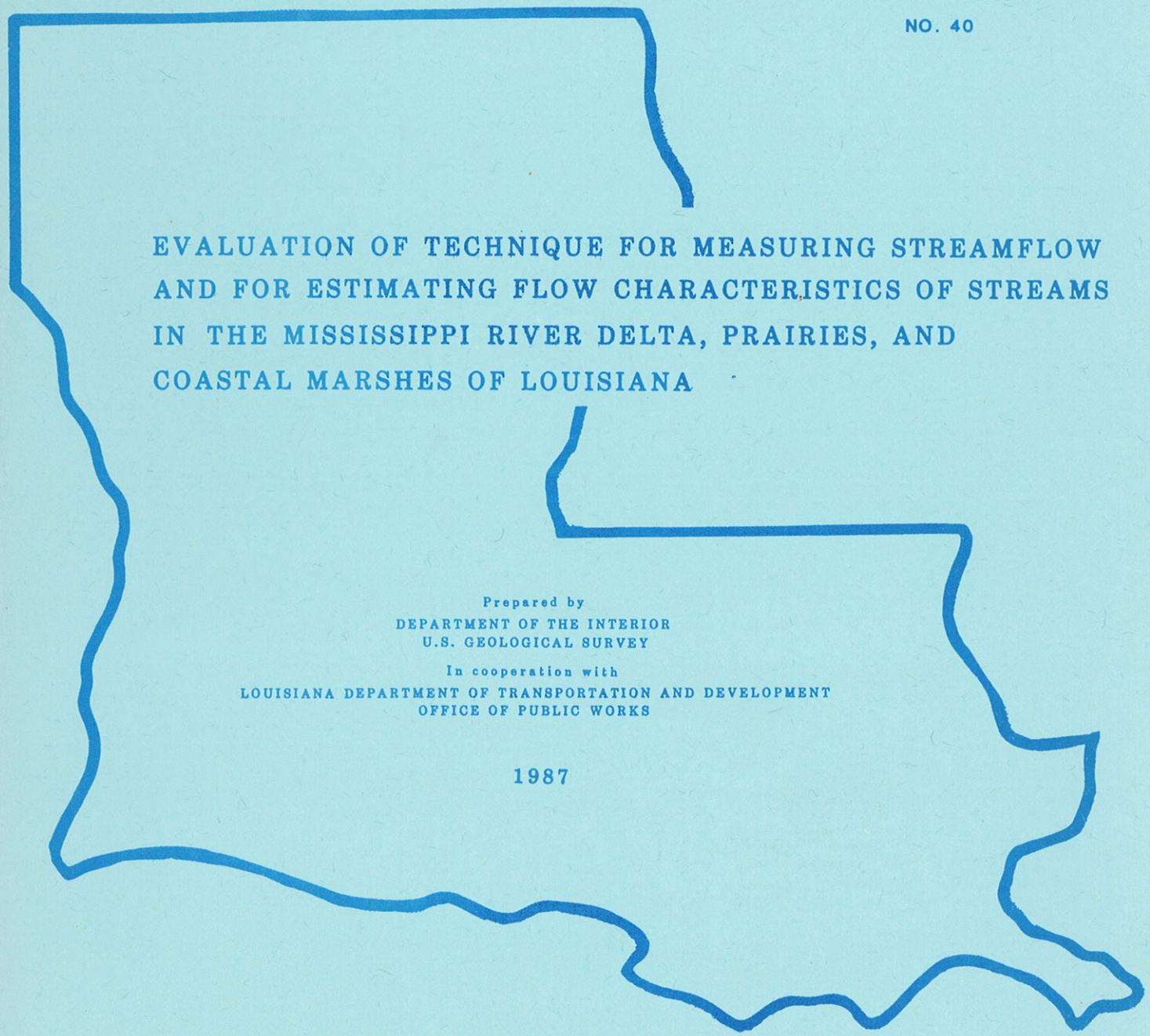
STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
OFFICE OF PUBLIC WORKS

WATER RESOURCES
TECHNICAL REPORT
NO. 40

EVALUATION OF TECHNIQUE FOR MEASURING STREAMFLOW AND FOR ESTIMATING FLOW CHARACTERISTICS OF STREAMS IN THE MISSISSIPPI RIVER DELTA, PRAIRIES, AND COASTAL MARSHES OF LOUISIANA



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By

Fred N. Lee, and Roger K. White

U.S. Geological Survey

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STATE OF LOUISIANA

EDWIN W. EDWARDS, Governor

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

ROBERT G. GRAVES, Secretary

OFFICE OF PUBLIC WORKS

Marty Chabert, Assistant Secretary

Cooperative projects with the

DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to:

Darwin Knochenmus
District Chief
U.S. Geological Survey, WRD
P.O. Box 66492
Baton Rouge, Louisiana 70896-6492
Telephone: (504) 389-0281

Z. "Bo" Bolourchi
Chief, Water Resources Section
Office of Public Works
Louisiana Department of Transportation
and Development
P.O. Box 94245
Baton Rouge, Louisiana 70804-9245
Telephone: (504) 379-1434

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INTERNATIONAL SYSTEM (SI) OF UNITS

For the convenience of readers who prefer to use metric (International System) units rather than the inch-pound units used in this report, values may be converted by using the following factors:

Multiply	By	To obtain
cubic foot per second (ft^3/d)	0.02832	cubic meter per second (m^3/s)
square foot (ft^2)	0.09294	square meter (m^2)
foot (ft)	0.3048	meter (m)
foot per second (ft/s)	0.3048	meter per second (m/s)
inch (in.)	2.54	centimeter (cm)
mile (mi)	1.609	kilometer (km)
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m^3/s)

Temperature

degree Fahrenheit (°F) to degree Celsius (°C): °C = 5/9 (°F - 32)

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "Mean Sea Level of 1929."

EVALUATION OF TECHNIQUES FOR MEASURING STREAMFLOW AND FOR ESTIMATING FLOW CHARACTERISTICS OF STREAMS IN THE MISSISSIPPI RIVER DELTA, PRAIRIES, AND COASTAL MARSHES OF LOUISIANA

By Fred N. Lee, and Roger K. White

ABSTRACT

Although conventional methods of computing discharge on a continuous basis are not completely applicable for streams in the prairies and coastal marshes of Louisiana, a recently developed method which uses the bidirectional electromagnetic flowmeter system was successful in measuring discharges at four sites in these areas.

Comparison of discharge computed by using electromagnetic flowmeter data and discharge computed using stage-fall-discharge computations for Vermilion River at Lafayette, Louisiana, shows that the two methods produced comparable results. The resulting regression of the two sets of data gave R-squared values of 0.96 and 0.92 for instantaneous discharge measurements and computed daily mean discharge measurements, respectively. For the period monitored, total runoff computed using the electromagnetic flowmeter data was about 7 percent greater than the total runoff computed using the stage-fall-discharge method.

Streams in the Mississippi River Delta, prairies, and coastal marshes have distinct flow characteristics and were grouped into three categories according to their flow regime: (1) Streams affected by daily tidal fluctuation and headwater flow--Bayou Choupique and Bayou Lacassine; (2) streams affected by rainfall and possibly backwater, and that flow only during excessive rainfall--Bayou Queue de Tortue, Bayou Grosse Tete, and Bayou Chene; and (3) streams that have continuous flow and are affected intermittently by tidal fluctuations--Vermilion River and Amite River. Field inspection and general knowledge of the prairies and coastal marshes show that most streams in the study area are in category 1.

A unit-velocity curve developed for category 1 streams, using Bayou Choupique and Bayou Lacassine, shows potential as a method for estimating streamflow variability in the prairies and coastal marshes at sites where no streamflow information is available.

Analysis of discharge measurements made in the Mississippi River Delta, prairies, and coastal marshes showed that about 85 percent of the streams measured were either dry or had no flow, indicating that the 7-day, 2-year, and 10-year discharges would equal zero.

INTRODUCTION

Background

The U.S. Geological Survey in Louisiana has operated a stream-gaging network since 1938 when the Louisiana District was organized (Herbert and Carlson, 1985, p. 3). These stations have traditionally been in areas of the State where the flow regime is easily defined. Traditional instrumentation was used to collect the data at these gaged sites, and stage-discharge relations were easily defined because of relatively stable controls.

Therefore, streamflow in approximately 60 percent of the State has been adequately monitored since the beginning of the stream-gaging program. However, insufficient streamflow data are available at streams located in the other 40 percent of the State (Mississippi River Delta, prairies, and coastal marshes) because the streams are affected by tide, the drainage basins are not definable, and the streams intertwine and either go completely dry or reach a stagnant no-flow condition for long periods of time. Until the recent development of the bidirectional electromagnetic flowmeter system, instrumentation was not available to measure discharge on the sluggish streams where backwater and sometimes reverse flow occur.

Consequently, in 1982 the U.S. Geological Survey, in cooperation with the Louisiana Department of Transportation and Development, Office of Public Works, began a study to: (1) evaluate instrumentation needed to collect continuous-discharge data at streams where conventional techniques and methods are not completely applicable, (2) collect continuous and intermittent discharge data in the Mississippi River Delta, prairies, and coastal marshes of Louisiana (fig. 1), and (3) use the newly collected data to define the low-flow characteristics of these areas.

Purpose and Scope

The purpose of this report is to evaluate the bidirectional electromagnetic flowmeter system for measuring streamflow and to describe flow characteristics of streams in the Mississippi River Delta, prairies, and coastal marshes. The flowmeter is used to collect continuous-discharge data at streams where conventional methods are inadequate.

Streamflow data were collected from June 1982 to September 1985; streamflow characteristics were computed from the data collected from June 1982 to September 1984. Continuous and periodic discharge data were collected. Point stream velocity was measured continuously with a bidirectional electromagnetic flowmeter at seven sites (Bayou Choupique, Bayou Lacassine, Bayou Queue de Tortue, Bayou Grosse Tete, Bayou Chene, Vermilion River, and Amite River) in the prairies and coastal marshes.

For four of the seven sites, velocity-index curves and streamflow-variability curves were constructed, and maximum daily instantaneous, daily mean, and minimum daily instantaneous discharges were computed. Regression analyses were unsuccessful in evaluating streamflow for Bayou Choupique and Bayou Queue de Tortue.

Periodic discharge measurements were made at selected sites to determine the frequency of zero flow and define low-flow characteristics. Daily mean discharge for the Vermilion River at Lafayette was used to evaluate the electromagnetic flowmeter under field conditions.

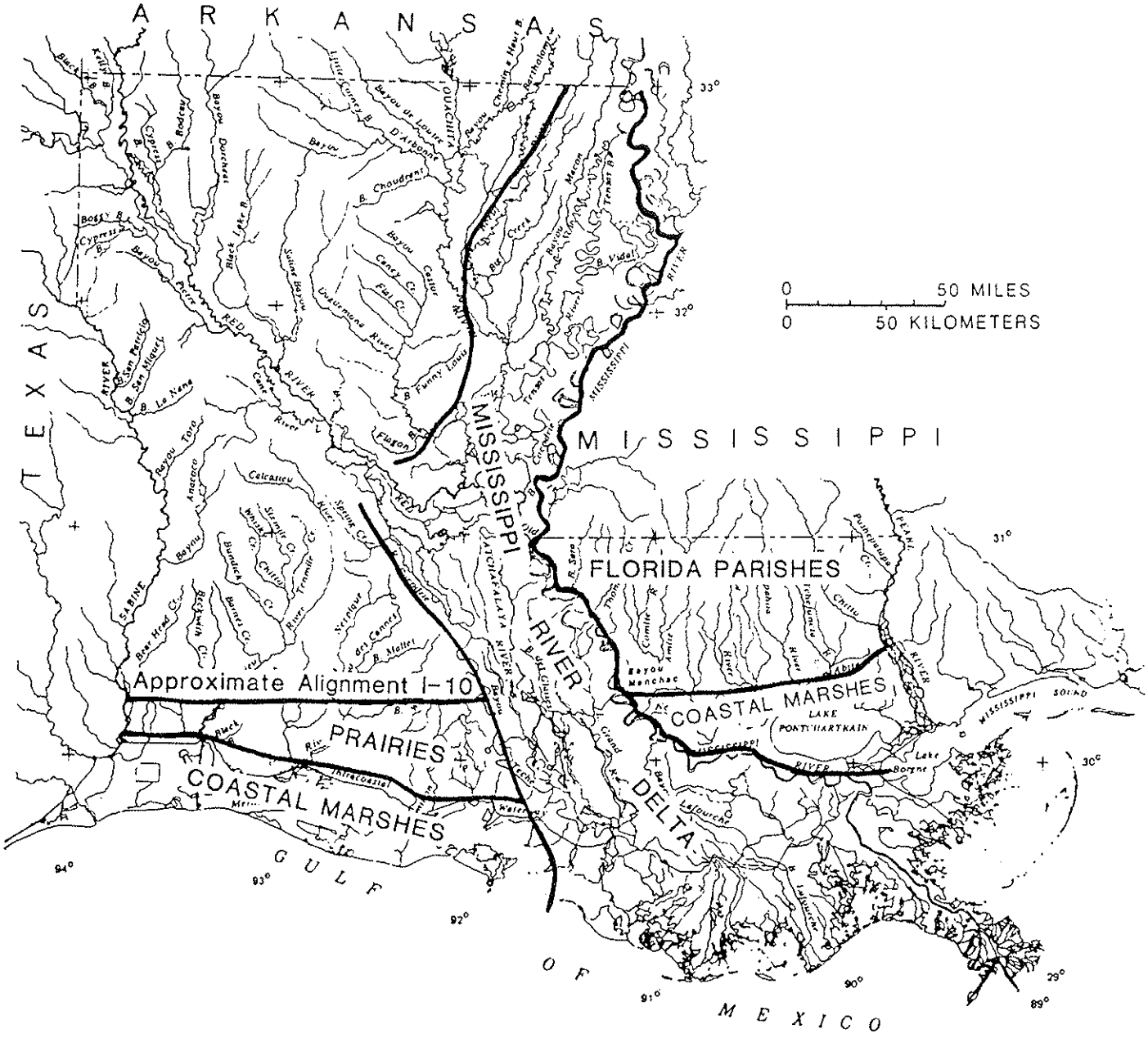

Figure 1.--Location of study areas.

DESCRIPTION OF THE STUDY AREAS

The climate of the study area (fig. 1) is classified as humid-subtropical and is characterized by mild winters and hot, humid summers. Annual rainfall ranges from 50 in. in the northern part of the Mississippi River Delta to 68 in. in the southern part of the coastal marshes. Rainfalls of long duration can occur and generally are caused by cold fronts moving into the area from the northwest and then stalling in the Gulf of Mexico, pumping warm, moist air over the State, causing widespread flooding in the State. Shorter, more intense rainfalls are caused by convective thunderstorm activities and usually occur during the late spring, summer, and fall months. Although the thunderstorms can produce large amounts of rainfall, they are usually of short duration and affect only a small area at a time. Average annual temperatures range from 19.0°C in the northern part of the Mississippi River Delta to 20.5°C in the southern part of the coastal marshes.

Mississippi River Delta

The Mississippi River Delta in Louisiana extends from the Louisiana-Arkansas border at the north to the Gulf of Mexico at the south. It is bounded on the east by the Mississippi River to about 30 degrees north latitude where the eastern boundary then becomes the rolling hills that make up the Florida Parishes. From there, it extends southward near Bayou Manchac where it intersects the northern boundary of the coastal marshes. It then extends more or less in a southeastward direction between Lake Pontchartrain and Lake Borgne. The western boundary starts at the Arkansas line and extends southward along the western boundary of the Ouachita River floodplain to approximately 32 degrees north latitude. From there, it extends in a southerly direction along the western boundary of the Atchafalaya River floodplain to the Gulf of Mexico (fig. 1).

The geology of the area is described in detail by Fisk (1944, p. 5-9) and later by Whitfield (1975, p. 4-5). Plate 1 (modified from Whitfield, 1975) is a geologic section between Crew Lake, La., and the Mississippi River. This section shows that most of the streams are incised into the Holocene and Pleistocene alluviums but do not penetrate the underlying aquifer system. The alluvium, which is less than 90 ft thick in most areas, consists of silts and clays. It retains sufficient water to maintain streamflow for short time periods after a rainfall ceases but will not maintain streamflow on a long-term basis.

Many of the streams have interconnected channels, some because of channel improvements and others because of natural drainage patterns. In addition, some of the streams are controlled by levees and dams that reduce the flooding potential to the surrounding farm areas. The Mississippi River Delta is extremely flat with ground elevations ranging from near sea level in the southern part to about 100 ft above sea level in the northern part.

The northern two thirds of the Mississippi River Delta is used mostly for farming, with several different types of hardwood trees covering undeveloped areas. These trees are especially abundant along the banks of the many meandrous streams throughout the area.

Prairies

The prairies extend from the Sabine River to the Mississippi River Delta, as far north as Interstate Highway 10, and as far south as the Intracoastal Waterway (fig. 1).

Most of the streams in the prairies penetrate clay deposits that overlie aquifers in the region but are not interconnected with the aquifers through these clay deposits. Smaller streams usually are not affected by tide and either become dry or stagnant except for short time periods following heavy rainfalls. Many of the streams contain water at all times but do not flow except during tidal fluctuations or immediately after heavy rainfall.

The prairies are flat with elevations ranging from 20 to 30 ft above sea level and generally are treeless except along the sluggish, meandering streams and along fencelines. The flat terrain and the highly impermeable subsoil make this area suitable for rice farming, a crop that requires sustained flooding during certain phases of its growth cycles.

Coastal Marshes

The coastal marshes of Louisiana extend from the Sabine River eastward to the Pearl River and approximately as far north as the Intracoastal Waterway southward to the Gulf of Mexico (fig. 1). These marshes are 20 to 60 mi wide and are subject to inundation by tides from the Gulf of Mexico. During extreme tidal flooding, individual streams and drainage divides can not be easily discerned. When this occurs, the water will flow in many directions, go into storage in the watershed, and return to the gulf on the out cycle of the tide.

The coastal marsh is an area of low relief and ranges in elevation from sea level at the gulf to 5 ft along the northern border. Toward the northern border, the marsh is firm, underlain by silt and hard clay. In the central and southern parts, the marsh is composed of mud high in organic matter, and the surface of the marsh is not the true land surface.

Streams throughout the coastal marsh are meandrous. In the upper parts, they flow through swampy, tree-covered terrain. Streams in the southern part flow through shallow boggy channels bordered by marsh grass.

The most significant features of the marshes are the cheniers, beach ridges composed mostly of sand and shells thrown up by waves during storms. They rise as much as 25 ft above sea level and extend for many miles, trending approximately parallel to the existing coastline. They generally are narrow, usually no more than a few hundred feet wide.

DATA COLLECTION

Continuous-velocity and stage data were collected at seven sites in the prairies and coastal marshes (pl. 2, table 1). In addition, periodic discharge measurements were made at 121 sites in the Mississippi River Delta, prairies, and coastal marshes (pl. 2, table 2) during periods of low flow.

Table 1.--Streams where continuous-velocity and stage data were collected

Map no.	Stream name and location of collection site
30	Bayou Choupique at Highway 108 near Sulphur.
28	Bayou Chene at Highway 382 near Welsh.
29	Bayou Lacassine at Highway 14 near Lake Arthur.
27	Bayou Queue de Tortue at Highway 91 near Riceville.
26	Vermilion River at Surrey Street at Lafayette.
31	Bayou Grosse Tete at Highway 76 at Rosedale.
32	Amite River at Highway 42 at Port Vincent.

Table 2.--Periodic discharge measurements made in the Mississippi River Delta, prairies, and coastal marshes in Louisiana

Site no.	Site location	Date	Discharge	Remarks
1	Bayou Parc Perdy at Highway 734----	11- 9-82	0.0	No flow.
1	-----do----------	10- 3-83	.21	
1	-----do----------	10- 1-84	.0	Dry.
2	Coulee Darby at Highway 733--------	11- 9-82	.0	Do.
2	-----do----------	10- 3-83	.0	No flow.
2	-----do----------	10- 1-84	.0	Dry.
3	Anselem Coulee on Parish Road------	11- 9-82	.08	
3	-----do----------	10- 3-83	.0	No flow.
3	-----do----------	10- 1-84	.04	
4	Bayou Ile des Cannes at Parish Highway.	11- 9-82	.76	
4	-----do----------	10- 4-83	.91	
4	-----do----------	10- 1-84	1.47	
5	Indian Bayou tributary no. 2 at Highway 342.	11- 9-82	.50	
5	-----do----------	10- 4-83	.20	
5	-----do----------	10- 1-84	.22	
6	Indian Bayou tributary no. 1 at Highway 342.	11- 9-82	.0	Dry.
6	-----do----------	10- 4-83	.0	No flow.
6	-----do----------	10- 1-84	.0	Do.
7	Lyons Point Gully at Highway 1115--	11- 9-82	.0	Do.
7	-----do----------	10- 3-83	.0	Do.
7	-----do----------	10- 1-84	.0	Do.
8	Coulee Kennys at Highway 696 near Abbeville.	11- 9-82	-6.20	All flow is upstream.
8	-----do----------	10- 3-83	.0	No flow.
8	-----do----------	10- 1-84	.0	Do.
9	Indian Bayou at Highway 700--------	11- 9-82	.0	Do.
9	-----do----------	10- 4-83	.0	Do.
9	-----do----------	10- 1-84	.0	Do.
10	Coulee des Iles at Parish Road-----	11- 9-82	.0	No flow.

Table 2.--Periodic discharge measurements made in the Mississippi River Delta, prairies, and coastal marshes in Louisiana--Continued

Site no.	Site location	Date	Discharge	Remarks
10	Coulee des Iles at Parish Road-----	10- 3-82	0.0	No flow.
10	-----do-----	10- 1-84	.0	Do.
11	Bayou Grand Marais at Parish Road--	11- 9-82	.0	Do.
11	-----do-----	10- 3-83	.0	Do.
11	-----do-----	10- 1-84	.0	Do.
12	Bayou Grand Marais at Highway 102--	11- 9-83	.0	Do.
12	-----do-----	10- 4-83	1.00	Flow, probably carryover from recent high water.
12	-----do-----	10- 1-84	.0	No flow.
13	Bayou Grand Marais at Parish Road--	11- 9-82	.0	Do.
13	-----do-----	10- 4-83	1.57	Evidence of recent high water.
13	-----do-----	10- 1-84	.0	No flow.
14	Bayou Grand Marais at U.S. Highway 90.	11- 9-82	.0	Do.
14	-----do-----	10- 4-83	.0	Do.
14	-----do-----	10- 1-84	.0	Do.
15	Bayou Grand Marais at Highway 1126-	11- 9-82	.0	Do.
15	-----do-----	10- 4-83	.0	Do.
15	-----do-----	10- 1-84	.0	Do.
16	Bayou Chene near Welsh (flowmeter site).	10- 4-83	.0	Do.
16	-----do-----	10- 1-84	.0	Do.
17	East Bayou Lacassine at Highway 1126.	11- 9-82	.0	Do.
17	-----do-----	10- 4-83	.0	Do.
17	-----do-----	10- 1-84	.0	Do.
18	East Bayou Lacassine at Highway 99-	11- 9-82	.70	Estimated flow.
18	-----do-----	10- 4-83	2.58	
18	-----do-----	10- 1-84	5.47	
19	West Bayou Lacassine at Parish Road	11- 9-82	.0	No flow.
19	-----do-----	10- 4-83	.0	Do.
19	-----do-----	10- 1-84	.0	Do.
20	Bayou Arceneaux at Highway 383-----	11- 9-82	1.29	
20	-----do-----	10- 3-83	1.63	
20	-----do-----	10- 1-84	3.64	
21	Bayou Serpent at Highway 383-------	11- 9-82	.0	No flow.
21	-----do-----	10- 3-83	.0	Do.
21	-----do-----	10- 1-84	.0	Do.
22	Bayou Serpent at Parish Road-------	11- 9-82	.0	Do.
22	-----do-----	10- 3-83	.0	Do.
22	-----do-----	10- 1-84	.0	Do.
24	Spring Gully at Highway 108 near Sulphur.	10- 3-83	.0	No flow, stream nearly dry.
24	-----do-----	10- 1-84	.0	No flow.

Table 2.--Periodic discharge measurements made in the Mississippi River Delta, prairies, and coastal marshes in Louisiana--Continued

Site no.	Site location	Date	Discharge	Remarks
25	Vinton drainage canal tributary at Highway 108.	10- 3-83	0.0	No flow, stream nearly dry.
25	-----do----------	10- 1-84	.0	No flow, dead water.
41	Little Colewa Bayou southwest of Epps.	11- 1-83	.0	Stream dry.
41A	Little Creek northwest of Delhi----	11- 1-83	.0	Do.
41D	Congo Creek at Highway 854 northwest of Delhi.	11- 1-83	.0	Do.
41C	Big Colewa Creek west of Mitchiner-	11- 1-83	.0	Do.
42	Cypress Creek northeast of Rayville	11- 1-83	.0	No flow.
42A	Cypress Creek tributary northeast of Rayville.	11- 1-83	.0	Stream dry.
43	Bee Bayou northeast of Rayville----	11- 1-83	.0	No flow.
43A	Bee Bayou at Highway 80 east of Rayville.	11- 1-83	.0	Do.
44	Cypress Creek southeast of Rayville.	11- 1-83	.0	No flow, stream flows after rain
45	Big Creek southeast of Rayville----	11- 1-83	.0	No flow.
47	Little Creek southwest of Rayville-	11- 1-83	.0	Stream dry.
48	Bee Bayou at Highway 584 south of Rayville.	11- 1-83	.0	No flow.
49	Cow Bayou at Highway 584 southeast of Rayville.	11- 1-83	.0	Stream dry.
50	Bee Bayou south of Rayville--------	11- 1-83	1.68	Flows all year.
51	Little Creek south of Rayville-----	11- 1-83	.0	Stream dry, flows after rain.
52	Boeuf River tributary at Highway 15.	11- 1-83	.0	No flow, flows after big rain.
53	Muddy Bayou at Highway 132 west of Mangham.	10-31-83	.0	Dry, flows after rain.
54	Little Creek at Highway 132 west of Mangham.	10-31-83	.0	Stream dry.
55	Little Creek at Highway 576 southwest of Manghan.	10-31-83	.0	No flow; flows after good rain.
56	Muddy Bayou at Highway 576 southwest of Mangham.	10-31-83	.0	Do.
57	Muddy Bayou tributary at Highway 576 southwest of Mangham.	10-31-83	.0	Do.
58	Turkey Creek at Highway 132 southwest of Delhi.	11- 1-83	.0	Stream dry.
59	Hurricane Bayou at Highway 860 east of Mangham.	10-31-83	.0	Do.
60	Turkey Creek at Highway 132 east of Mangham.	10-31-83	.0	No flow.
61	Deer Creek at Highway 577 northeast of Winnsboro.	11- 1-83	.0	Stream dry.

Table 2.--Periodic discharge measurements made in the Mississippi River Delta, prairies, and coastal marshes in Louisiana--Continued

Site no.	Site location	Date	Discharge	Remarks
62	Turkey Creek at Highway 577 north of Winnsboro.	11- 1-83	0.0	Stream dry.
63	Deer Creek at Highway 4 east of Winnsboro.	11- 1-83	.0	No flow.
64	Little Turkey Creek southeast of Winnsboro.	11- 1-83	.0	Stream dry.
65	Turkey Creek south of Winnsboro----	11- 1-83	.0	No flow.
65A	Turkey Creek at Highway 4 southwest of Winnsboro.	11- 1-83	.0	Do.
65B	West Turkey Creek at Highway 4 west of Winnsboro.	11- 1-83	.0	Do.
65C	Pine Bayou at Highway 865 south of Winnsboro.	11- 1-83	.0	Do.
66	Pine Creek southwest of Winnsboro--	11- 1-83	.07	
66A	West Turkey Creek southwest of Winnsboro.	11- 1-83	.0	Stream dry.
67	Goose Creek at Highway 4 southwest of Winnsboro.	11- 1-83	.0	No flow.
68	West Turkey Creek at Highway 128 west of Gilbert.	11- 1-83	.0	Do.
69	Little Turkey Creek at Highway 128 south of Winnsboro.	11- 1-83	.0	Do.
70	Bayou Macon at Highway 572 east of Gilbert.	11- 1-83	179	
70A	Deer Creek northeast of Wisner-----	11- 1-83	.0	No flow.
70B	Deer Creek tributary near Wisner---	11- 1-83	.0	Stream dry.
70C	Deer Creek cutoff east of Wisner---	11- 1-83	.0	Do.
71	Brushey Bayou at Highway 875 north of Metropolis.	11- 1-85	.0	Do.
72	Brushey Bayou at Highway 562 southwest of Holly Grove.	11- 1-83	2.95	
73	Joes Bayou at Highway 577 northeast of Delhi.	11- 1-83	.0	No flow.
73A	-----do----------	11- 1-83	.0	Do.
74	Bull Bayou northwest of Tallulah---	11- 1-83	.0	Stream dry.
74A	Talla Bena Bayou at U.S. Highway 65 northeast of Tallulah.	11- 1-83	.0	Do.
74B	Little Tensas Bayou north of Tallulah.	11- 1-83	.0	Do.
74C	Bull Bayou north of Tallulah-------	11- 1-83	.0	Do.
74D	-----do----------	11- 1-83	.0	Do.
75	Willow Bayou northeast of Tallulah-	11- 1-83	.50	Estimated flow.
76	Mothiglam Bayou west of Tallulah---	11- 1-83	.90	Do.
77	Alligator Bayou southwest of Tallulah.	10-31-83	.0	Stream dry.
78	Alligator Bayou at highway south of Tallulah.	10-31-83	.0	No flow.

Table 2.--Periodic discharge measurements made in the Mississippi River Delta, prairies, and coastal marshes in Louisiana--Continued

Site no.	Site location	Date	Discharge	Remarks
79A	Harper Bayou southeast of Tallulah-	10-31-83	0.0	Stream dry.
80	Cypress Bayou at Highway 575 northwest of Newellton.	10-31-83	.0	Do.
81	Cow Slough at Highway 4 west of Newellton.	10-31-83	.0	Do.
82	Clark Bayou at U.S. Highway 65 south of Newellton.	10-31-83	.0	Do.
83	Big Choctaw Bayou southwest of Newellton.	10-31-83	.0	Do.
84	Van Buren Bayou west of St. Joseph-	10-31-83	.0	Do.
84A	Little Choctaw Bayou at Highway 3009 west of St. Joseph.	10-31-83	.0	Do.
85	Big Choctaw Bayou at Highway 573 near Waterproof.	10-31-83	3.05	
86	Little Buffalo at Highway 566 west of Waterproof.	10-31-83	.0	Stream dry.
86A	Little Buffalo at Highway 3044 west of Waterproof.	10-31-83	.0	Do.
87	Bayou Falcon at Highway 15 at Sicily Island.	10-31-83	.0	No flow.
88	Rawson Creek at Highway 124 north of Harrisonburg.	10-31-83	.0	Do.
89	Rawson Creek at Jugband Road north of Harrisonburg.	10-31-83	.0	Do.
90	Rawson Creek northwest of Harrisonburg.	10-31-83	.0	Do.
91	Haggerty Creek east of Sherwood----	10-31-83	.01	Estimated flow.
92	Elm Slough at Highway 923 northwest of Jonesville.	10-31-83	.0	Stream dry.
101	Buck Bayou at Highway 2 east of Oak Grove.	11- 1-83	.0	Do.
102	Brushey Bayou southeast of Oak Grove.	10-31-83	.0	Do.
103	Baxter Bayou at Highway 582 southeast of Oak Grove.	10-31-83	.0	Do.
104	Winters Bayou southwest of Lake Providence.	10-31-83	.0	No flow.
105	Bull Bayou at Highway 581 northwest of Transylvania.	10-31-82	.0	Stream dry.
106	Joes Bayou at Highway 580 east of Epps.	10-31-83	.0	Stream dry.
107	Maiden Doe Bayou at highway southwest of Lake Providence.	10-31-83	.0	Do.
108	Joes Bayou at Highway 580 east of Epps.	10-31-83	.0	No flow.
109	Joes Bayou at Highway 134 northeast of Epps.	10-31-83	.0	Do.

Table 2.--Periodic discharge measurements made in the Mississippi River Delta, prairies, and coastal marshes in Louisiana--Continued

Site no.	Site location	Date	Discharge	Remarks
111	Little Colewa Bayou at Highway 879 west of Oak Grove.	11- 1-83	0.0	Stream dry.
112	Mill Bayou at Highway 582 east of Forest.	10-31-83	.0	No flow.
113	Big Colewa Bayou at Highway 588 west of Pioneer.	11- 1-83	.0	Stream dry.
114	Coleway Bayou tributary southwest of Pioneer.	11- 1-83	.0	No flow.
115	Big Colewa at Highway 577 south of Pioneer.	11- 1-83	.0	Do.
116	Alligator Bayou at Highway 577 northeast of Epps.	11- 1-83	.0	Do.
117	Big Colewa Creek northwest of Epps-	11- 1-83	.0	Do.
118	Little Colewa at Highway 134 east of Whitney Island.	11- 1-83	.0	Do.
119	Cypress Bayou east of Bonita-------	11- 1-83	.0	Stream dry.
120	Bayou Bonne Idee south of Bonita---	11- 1-83	.0	Do.
121	Cypress Bayou southeast of Bonita--	11- 1-83	.0	No flow.
122	Cypress Bayou east of Mer Rouge----	11- 1-83	.0	Stream dry.
123	The Swale at Highway 2 east of Mer Rouge.	11- 1-83	.0	Do.
124	Bayou Bonne Idee at highway east of Mer Rouge.	11- 1-83	.0	No flow.
125	Bayou Galion at Highway 133 east of Mer Rouge.	11- 1-83	.0	Stream dry.
126	Little Bonne Idee at Highway 133 north of Oak Ridge.	11- 1-83	.0	Do.
127	Bayou Bonne Idee northeast of Oak Ridge.	11- 1-83	.0	No flow.
128	Bayou Galion at Highway 134 west of Oak Ridge.	11- 1-83	.0	Stream dry.
129	Bayou Galion southwest of Oak Ridge.	11- 1-83	.0	No flow.

Periodic Discharge Measurements

Of the 121 sites previously mentioned, 98 are in the Mississippi River Delta and 23 are in the prairies and coastal marshes. Periodic measurements of discharge were made at these sites from November 1982 to October 1984 during periods of low flow and during times of minimum irrigation pumpage. Because October normally has the lowest monthly rainfall, and irrigation pumpage has ceased or is at minimum, most measurements were made during that month. An average of two measurements were made at each site.

Stream-Velocity and Stage Data Collected in Prairies and Coastal Marshes

Plate 2 shows the location of the seven sites where continuous-streamflow data were collected. Each site was instrumented to collect both stream velocity and stage. The following are criteria used in selecting a site for instrumentation: (1) conventional methods of streamflow discharge computations (development of a stable stage-discharge relation) could not be used, (2) the site is either tidal affected or has backwater from another stream, (3) the site is accessible for servicing, (4) discharge measurements are obtainable, (5) the velocity probe can be located in an area of the stream channel where flow occurs at all times, and (6) instrumentation is safe from vandalism.

Continuous-stream velocity was measured using a bidirectional electromagnetic flowmeter capable of measuring a range in stream velocity of plus or minus 10 ft/s. Instrumentation consisted of a velocity probe in the stream, a float stage gage, a flowmeter microprocessor, a flowmeter microprocessor and stage gage-to-recorder interface, a digital recorder using 16 channel-paper tape, and necessary interconnecting wiring. The equipment was battery operated. Output from the velocity probe and stage gage was interfaced to the digital recorder for later use in computing maximum daily instantaneous, daily mean, and minimum daily instantaneous discharges.

To compute discharge using the velocity from the electromagnetic flowmeter, two relations have to be established: (1) that between the average velocity of the stream at the instrumented site and the index velocity (velocity at the electromagnetic flowmeter probe) and (2) that between the stage and the area of a selected cross section of the channel. Definition of the relation between average velocity of the stream and index velocity at a site was accomplished by making discharge measurements (table 3) at varying flow rates. The relation curve was developed by plotting the average velocity in the selected cross section against the simultaneous index velocity. This relation curve was developed for four of the sites where sufficient data were available. Figure 2 is an example of this relation, using data from Bayou Lacassine near Lake Arthur, La. A corresponding stage-area curve (fig. 3) was developed for each of the four sites by relating stage to the surveyed area of the selected channel cross sectional at the given site.

Instantaneous discharge can be computed by knowing the stage and its time of occurrence and the index velocity corresponding to the time the stage occurred. To compute the discharge, estimate the cross-sectional area by entering the stage-area curve (fig. 3) with the stage. Next, estimate the average cross-sectional velocity by entering the velocity-index curve (fig. 2) with the index velocity (from the electromagnetic flowmeter). Multiply the two values together to get an estimate of the instantaneous discharge.

EVALUATION OF THE FLOWMETER SYSTEM FOR MEASURING DISCHARGE

The flowmeter system was evaluated for measuring continuous streamflow discharge by the following methods:

1. Comparison of measured instantaneous discharge to computed instantaneous discharge.

Table 3.--Discharge measurements made at electromagnetic flowmeter sites

[ft, feet; ft^3/s, cubic feet per second; ft^2, square feet; and ft/s, feet per second]

Map no.	Measurement no.	Date	Stage (ft)	Discharge (ft^3/s)	Area (ft^2)	Average measured velocity (ft/s)	Flowmeter point velocity (ft/s)
Vermilion River at Surrey Street at Lafayette-07386884[a]							
26	1	6-25-82	3.89	536	761	0.70	0.68
26	2	7- 8-82	3.48	437	715	.56	.56
26	3	7-29-82	3.30	-88	663	-.13	-.20
26	4	8-12-82	7.18	1,490	1,120	1.33	1.27
26	5	9-14-82	7.38	1,530	1,160	1.33	1.26
26	6	9-14-82	7.30	1,480	1,140	1.31	1.12
26	7	9-14-82	7.21	1,420	1,140	1.25	1.26
26	8	9-14-82	7.13	1,410	1,120	1.26	1.22
26	9	11- 4-82	2.14	214	569	.38	.27
26	10	1- 5-83	12.72	3,770	1,840	2.05	1.78
26	11	2- 2-83	10.20	2,310	1,510	1.54	1.30
26	12	7-13-84	5.40	914	896	1.04	.79
26	13	8-23-84	5.78	662	934	.71	.45
26	14	10-17-84	10.46	-502	1,530	-.33	-.24
26	15	10-22-84	11.60	-1,390	1,670	-.83	-.49
26	16	10-25-84	13.76	2,540	2,060	1.23	.98
26	17	11-19-84	5.74	911	938	.98	.94
Bayou Queue de Tortue at Riceville-08012300							
27	1	7-30-82	4.98	499	1,290	0.39	0.32
27	2	8-12-82	6.20	1,240	2,060	.60	.65
27	3	10-28-82	4.17	108	1,160	.09	.00
27	4	11- 9-82	4.02	38	897	.04	-.13
27	5	12- 7-82	8.14	3,060	3,380	.90	.94
27	6	5-23-83	10.36	5,090	4,710	.98	1.01
27	7	10-18-84	9.50	4,120	4,210	.98	1.01
27	8	10-24-84	10.19	5,440	4,710	1.15	1.22
Bayou Chene at State Highway 382 near Welsh-08012447							
28	1	12-15-82	6.99	881	1,080	0.82	0.78
28	2	2- 3-83	9.05	1,500	1,410	1.06	.92
28	3	4-15-83	5.84	66	917	.07	.12
28	4	5-24-84	9.05	1,240	1,370	.90	.44
28	5	10-17-84	9.00	1,630	1,390	1.18	.45
28	6	10-22-84	8.38	555	1,260	.44	.12
28	7	2-27-85	8.33	1,000	1,230	.81	.63

Table 3.--Discharge measurements made at electromagnetic flowmeter sites--Continued

Map no.	Measurement no.	Date	Stage (ft)	Discharge (ft^3/s)	Area (ft^2)	Average measured velocity (ft/s)	Flowmeter point velocity (ft/s)
			Bayou Lacassine near Lake Arthur-08012470				
29	1	4-14-83	8.94	930	4,940	0.18	0.25
29	3	5-23-83	10.74	6,600	6,190	1.07	1.45
29	4	2-28-84	8.06	1,200	4,410	.27	.40
29	5	5-23-84	10.17	4,220	5,830	.72	1.01
29	6	10-16-84	10.20	2,360	5,760	.41	.59
			Bayou Choupique near Sulphur-08017007				
30	1	7-21-83	5.14	194	1,050	0.18	0.10
30	2	7-22-83	4.77	-310	994	-.31	-.33
30	3	7-22-83	5.19	-200	1,050	-.19	-.21
30	4	7-22-83	5.51	-158	1,090	-.14	-.15
30	5	5-22-84	6.96	953	1,260	.76	.61

[a] This station is the same as station 07386880. Data collected under this number is used for comparing electromagnetic flowmeter discharges with discharge computed by standard techniques.

2. Comparison of daily mean discharge computed from flowmeter data to daily mean discharge computed using slope computations (Vermilion River at Surrey Street at Lafayette).

3. Comparison of total runoff computed using flowmeter data to total runoff using slope computations (Vermilion River at Surrey Street at Lafayette).

Comparison of Instantaneous Discharges

During the study, 37 streamflow discharge measurements were made at four of the sites where electromagnetic flowmeters were installed. Simultaneous discharges were computed using the average velocity determined from the electromagnetic flowmeter relation to the index velocity (coinciding with time of discharge measurement) and channel cross-sectional area. Table 4 is a list of these values.

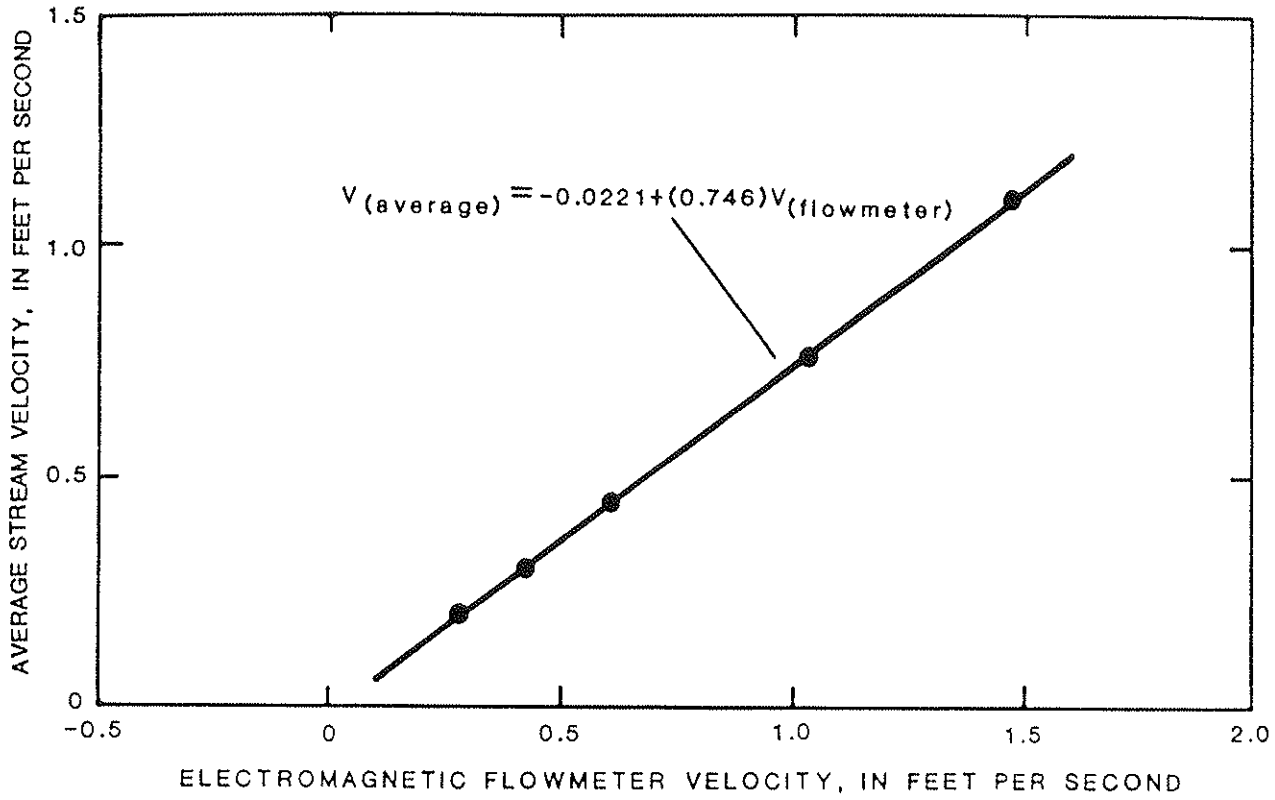

Figure 2.--Velocity-index curve for Bayou Lacassine near Lake Arthur, Louisiana.

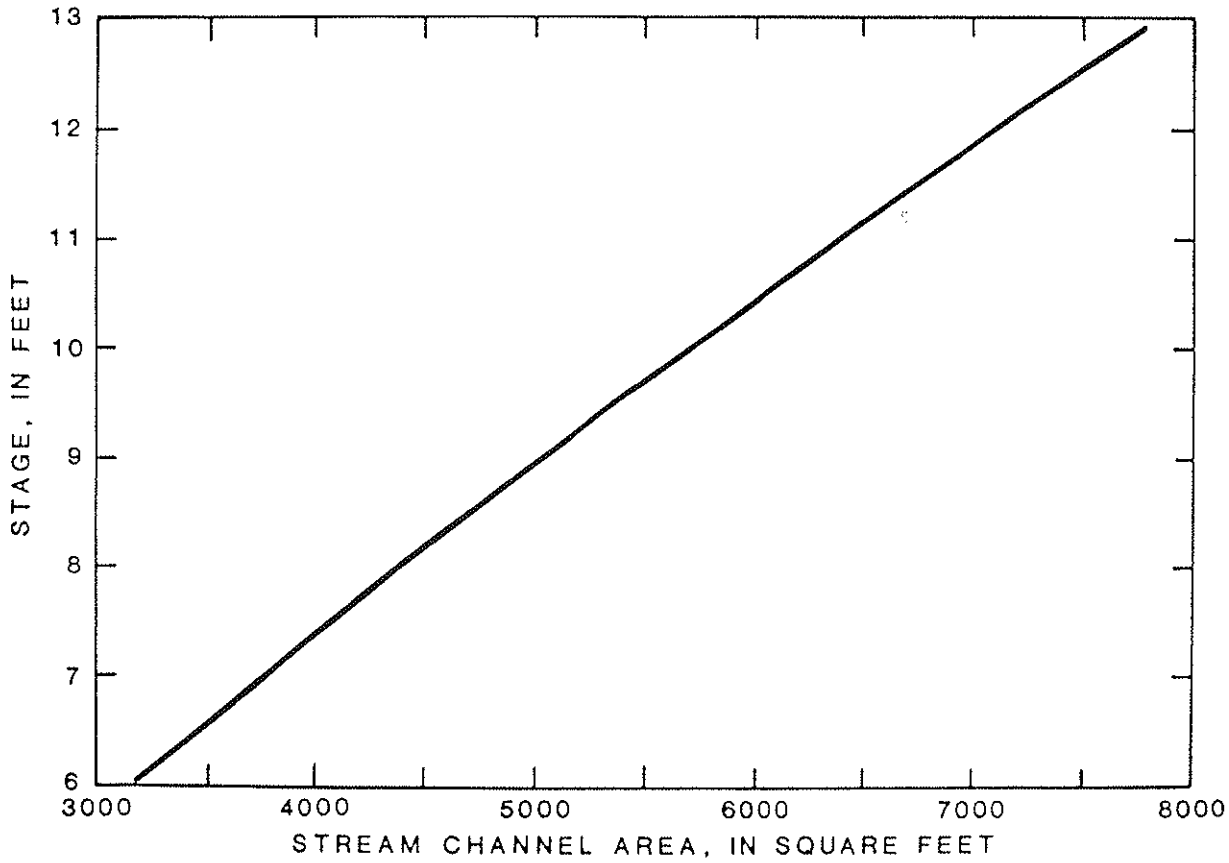

Figure 3.--Stage-area curve for Bayou Lacassine near Lake Arthur, Louisiana.

Table 4.--Discharge measurements used to evaluate the electromagnetic flowmeter system for measuring continuous discharge

Measured discharge	Computed discharge	Measured discharge	Computed discharge
930	895	5,440	5,490
6,600	6,610	536	546
1,200	1,190	437	446
4,220	4,170	-88	-97
2,360	2,380	1,490	1,480
194	214	1,530	1,490
-310	-341	1,480	1,320
-200	-218	1,420	1,460
-158	-168	1,410	1,410
953	996	214	200
3,440	2,900	3,770	3,700
3,000	2,360	2,320	2,280
499	490	923	914
1,240	1,320	662	669
108	134	-502	-308
38	11	-1,390	-680
3,060	2,970	2,540	2,100
5,090	7,170	911	932
4,120	4,290		

A regression analysis, using these data, was done to compare the computed discharge to the measured discharge as a means of evaluating the flowmeter system of measuring discharge. This regression showed a good relation between the measured and computed discharges with an adjusted R^2 (R-squared) value of 0.96. An R^2 value of 1.00 shows a perfect relation.

The relation between the measured discharges and computed discharges is shown in a different way by plotting, on coordinate graph paper, the two sets of values. This relation is shown in figure 4. Discharges greater than about 2,400 ft^3/s show a somewhat greater scatter than discharges below that amount. This scatter is probably due to the greater variability in cross-sectional area as a result of overbank flow and probably is the result of a less stable stage-area relation rather than to a decrease in the accuracy of the velocity as measured by the velocity probe at greater discharges.

Comparison of Daily Mean Discharges

The flowmeter system was evaluated at one gaging station by comparing daily mean discharge computed from the electromagnetic flowmeter system with daily mean discharge computed from an established stage-fall-discharge relation. The Vermilion River at Lafayette was selected as the site to make this comparison because discharge records were being collected at the site using stage-fall-discharge methods prior to instrumentation with the electromagnetic flowmeter.

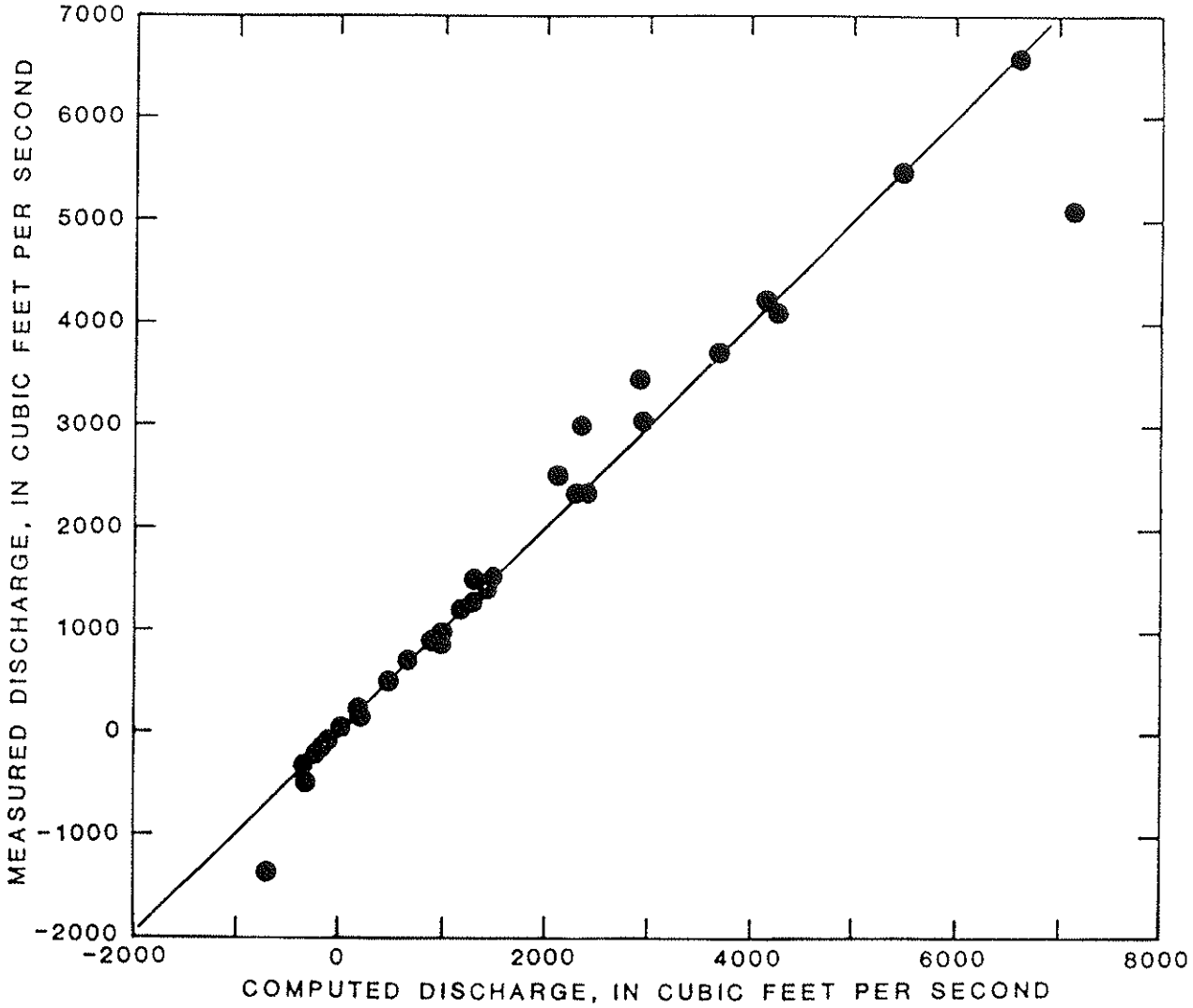

Figure 4.--Relation between measured discharge and computed discharge.

Instruments already installed on the Vermilion River at Lafayette (for purposes of stage-fall computations) consisted of two stage recorders located approximately 8 mi apart. Data from these recorders are used in a stage-fall-discharge relation to determine mean daily discharges as explained by Rantz and others (1982, p. 390-428). The methodology shown in Rantz and others (1982) was modified for use when a reversal of streamflow occurs (negative flow exists). When this condition exists, the auxiliary gage (the downstream gage) is used as the base gage (upstream gage), and the base gage is used as the auxiliary gage. For comparison with results by the flowmeter, the daily mean discharges computed by the stage-fall-discharge method are considered to be the true values.

Figure 5 compares the daily mean discharges computed by the two methods. These plots show that there can be a large difference in discharges computed by the two methods in both timing and magnitude. The timing difference can be partially attributed to time lag in flow because of the distance between the two stage gages.

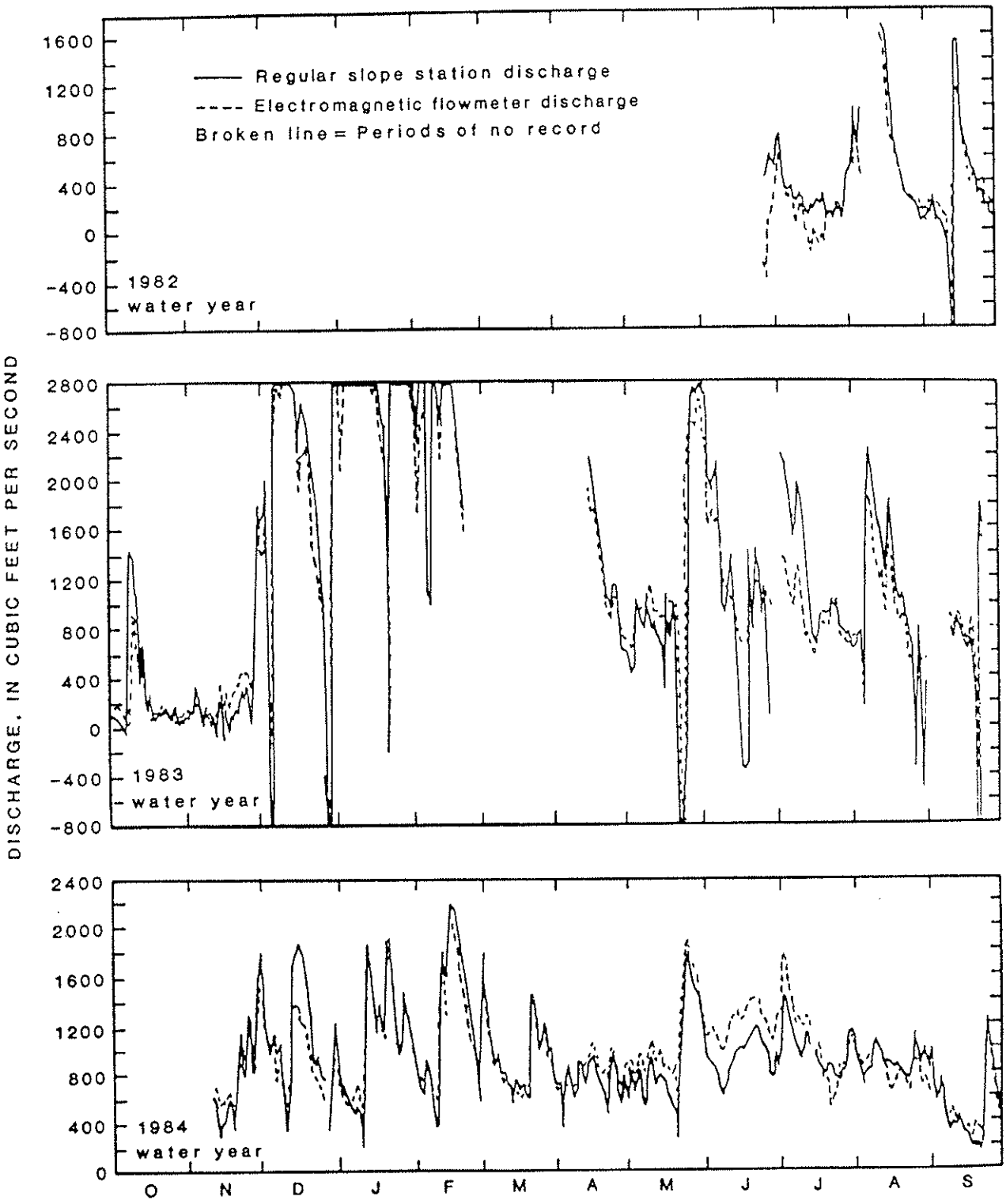

Figure 5.--Comparison of daily mean discharges computed using the stage-fall-discharge method to the daily mean discharges computed using the electromagnetic flowmeter system.

The two methods were also compared by regression analysis of the daily mean discharges. The regression analysis for this study did not include peak timing as a variable but compared only the daily mean discharges by using a linear regression model. The regression results, using simultaneous daily mean discharges for the control period, June 1982 to September 1984, show a good relation between discharges from the flowmeter and those computed using the stage-fall-discharge relation. The adjusted R^2, using all the data, was 0.92.

Comparison of Total Discharge

The electromagnetic flowmeter system was also evaluated by comparing the total runoffs in cubic feet per second per day for a specific time period by the two methods. This comparison showed that the total for the electromagnetic flowmeter was about 7 percent greater than the total computed using the stage-fall-discharge method. This difference in total discharge is well within the accuracies of the two methods and showed that, for all practical purposes, the two methods produce the same results.

ESTIMATING FLOW CHARACTERISTICS

To aid in defining flow characteristics of streams in the prairies and coastal marshes, the streams were categorized as follows: (1) Streams affected by daily tidal fluctuations and headwater flow; gaged streams with electromagnetic flowmeters in this category are Bayou Choupique and Bayou Lacassine. (2) Streams affected by rainfall and possibly backwater, and that flow only during periods of excessive rainfall; Bayou Queue de Tortue, Bayou Grosse Tete and Bayou Chene are typical of this pattern. (3) Streams that have continuous flow and are affected intermittently by tidal fluctuations; the Vermilion and Amite Rivers are typical of this pattern.

Regression Analysis

The maximum daily instantaneous, daily mean, and minimum daily instantaneous discharges were used as dependent variables in a regression analysis at two diverse characteristic streams, Bayou Choupique near Sulphur and Bayou Queue de Tortue near Riceville. The following variables were used as predictors: (1) Daily rainfalls at Lake Charles, Jennings, and Lafayette, La.; (2) average daily windspeed, resultant daily wind direction, and resultant daily windspeed at Lake Charles and Baton Rouge, La.; and (3) tide-table data from Galveston Bay, Tex.

Bayou Choupique is affected by daily tidal fluctuations at the site, except during periods of high storm runoff. Daily flow at the site can be either positive or negative. In contrast, Bayou Queue de Tortue is affected by backwater from the Mermentau River and does not flow at all except during periods of heavy rainfall or when flow from the Mermentau River backs upstream. If a regression model could be developed that would simulate streamflow at either of these two sites, then a model could be developed for other sites in the prairies and coastal marshes. Long-term climatic data could then be used to synthesize long-term streamflow records that would make it possible to evaluate any flow regime.

Results of the regression analysis were negative. The predictors used resulted in an adjusted R^2 value of less than 0.5 and a high standard error of estimate. On the basis of this analysis, no further effort was made to develop regression equations at the other streams.

Streamflow-Variability Curves

Streamflow-variability curves were developed for four sites in the prairies and coastal marshes where electromagnetic flowmeters are installed. The four streamflow sites are: (1) Vermilion River near Lafayette, (2) Bayou Queue de Tortue near Riceville, (3) Bayou Lacassine near Lake Arthur, and (4) Bayou Choupique near Sulphur.

All four streams are affected by man's activities. Of the four streams, Vermilion River is affected most. Water is pumped from the Atchafalaya River into the Teche-Vermilion basin through a canal system. Pumpage of water into this system began in November 1982. This diversion was developed for two reasons: (1) to maintain adequate streamflow in Bayou Teche and the Vermilion River during the irrigation season, and (2) to flush the Vermilion River during periods of low flow. The volume of flow supplied to the Vermilion River varies according to the need at the time. Therefore, data used to develop streamflow-variability curves for the Vermilion River are influenced by this inflow and do not represent natural conditions. However, assuming continued operation of the system in the future, as in the past, the curves should not change significantly.

Figures 6 and 7 are the individual site streamflow-variability curves developed by using data collected through the 1984 water year. Data used to develop these curves are found in tables 5 through 8 at the back of this report. These curves show the maximum daily instantaneous, daily mean, and minimum daily instantaneous discharges for each gaged site where a velocity-index curve has been defined by stream discharge measurement.

The streamflow-variability curves shown in figures 6 and 7 can be used to estimate the range in flow that can be expected at each site. Figure 6 is used as an example. Ten percent of the time, the maximum daily instantaneous discharge is equal to or greater than 370 ft^3/s, the daily mean discharge is equal to or greater than 120 ft^3/s, and the minimum daily instantaneous discharge is equal to or greater than -125 ft^3/s.

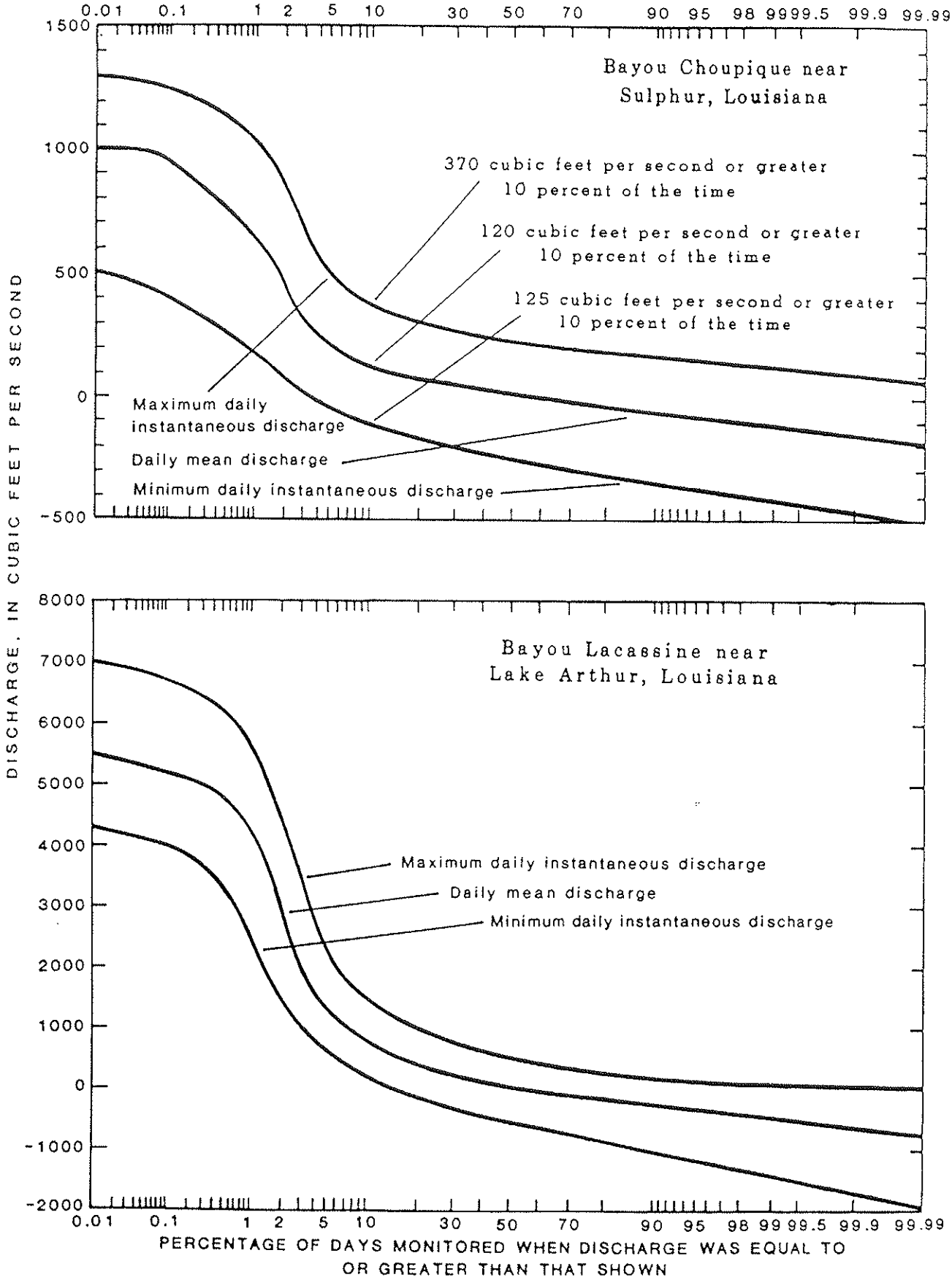

Figure 6.--Flow-variability curves for Bayou Choupique near Sulphur, Louisiana, and Bayou Lacassine near Lake Arthur, Louisiana.

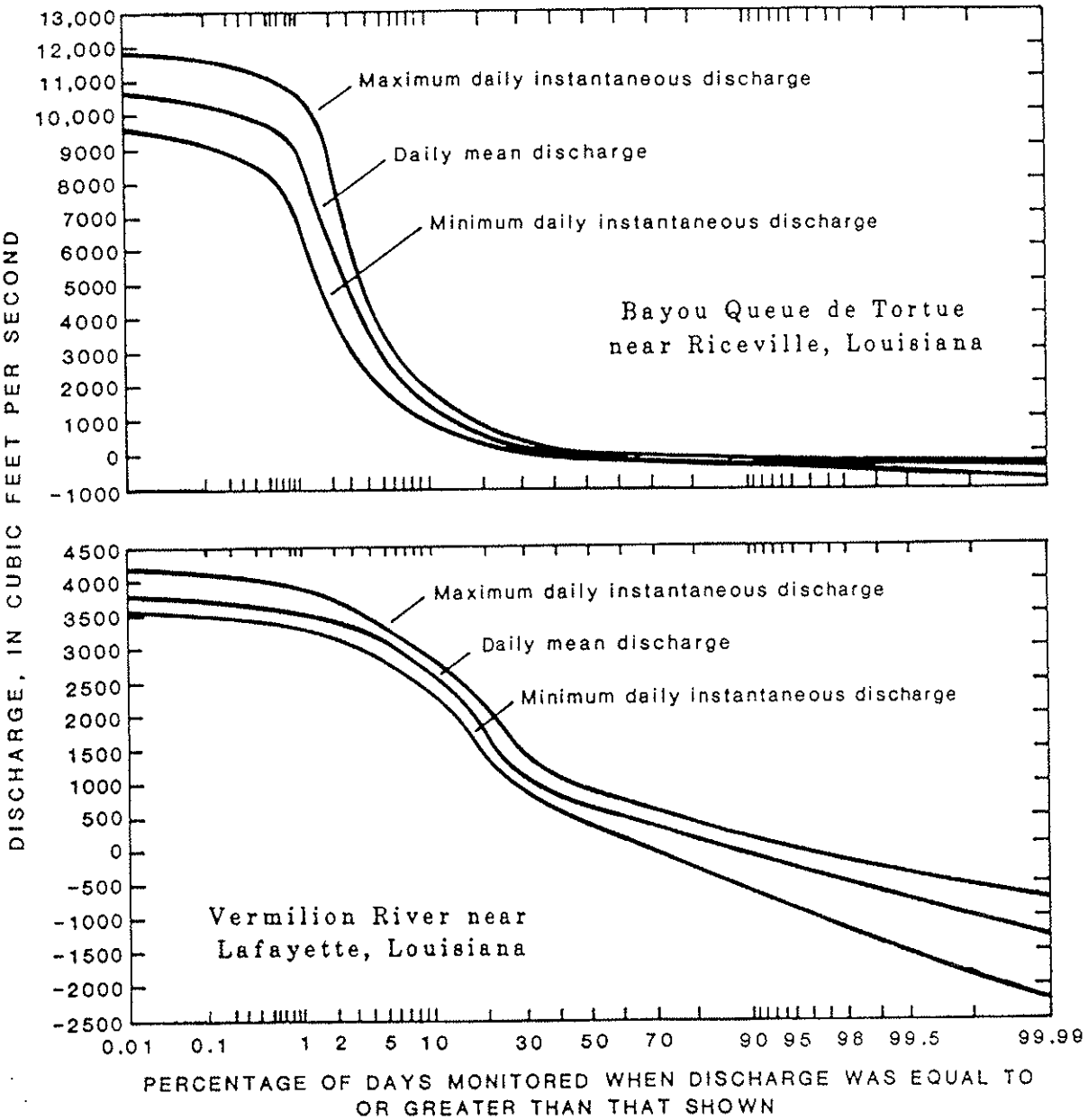

Figure 7.--Flow-variability curves for Bayou Queue de Tortue near Riceville, Louisiana, and Vermilion River near Lafayette, Louisiana.

Unit-Velocity Curves

This section of the report investigates a method that has potential for estimating flow variability of streams that can be classified as having category 1 flow characteristics. Because most of the streams in the prairies and coastal marshes are thought to be in category 1, an effort was made to establish procedures for estimating streamflow variability for these streams using daily mean discharges for Bayou Choupique and Bayou Lacassine. Because sufficient data are not available for the two other categories, no effort was made to develop unit-velocity curves.

To investigate a method for estimating flow variability at ungaged category 1 streams, a physical characteristic was needed to reduce the discharge (see section on streamflow-variability curves) for Bayou Choupique and Bayou Lacassine to a common unit term. A physical characteristic that can be easily obtained from either quadrangle maps or measured on-site in the field was needed. The cross-sectional area at bankful stage was used as this characteristic (easily obtained from field measurement). The procedure for dimensionalizing the flow-variability curve entailed dividing the daily mean discharge (from flow-variability curve) by the bankful stage cross-sectional area. This was done for each site (Bayou Choupique and Bayou Lacassine) and the resulting values of unit-velocity plotted on arithmetic probability paper against the corresponding percentage of days monitored. An average unit-velocity curve was drawn as shown in figure 8 and tabulated in table 9.

In deriving the unit-velocity curve, it was hypothesized that the channel and overbank roughness factors were essentially the same for both sites. Field inspections of each site gave credence to this assumption. Other sites in the prairies and coastal marshes that have category 1 characteristics were inspected and seem to have similar roughness characteristics as the two index streams, Bayou Choupique and Bayou Lacassine.

It is not the intention of this writer to set forth this procedure as a method for estimating flow variability at ungaged sites in coastal areas. However, it is a beginning and deserves further investigation when more data become available.

Periodic Discharge Measurements of Streams in the Mississippi River Delta, Prairies, and Coastal Marshes

Periodic discharge measurements (average about two per site) were made at selected streams in the Mississippi River Delta, prairies, and coastal marshes to gain knowledge of flow characteristics, especially minimum flow. Locations of sites where these measurements were made are shown on plate 2 and listed in table 2.

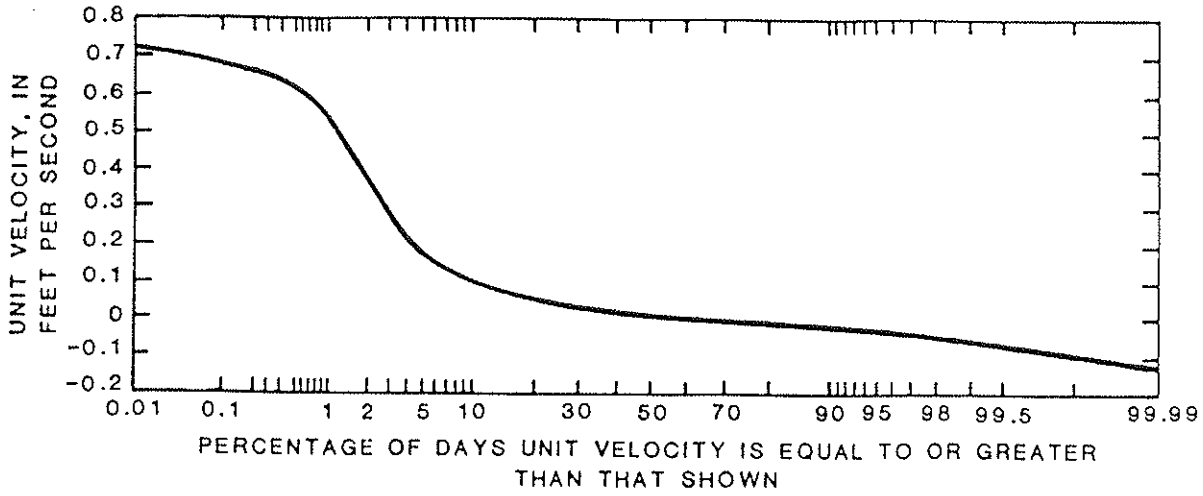

Figure 8.--Average unit-velocity curve for two category 1 streams in Louisiana.

Table 9.--Average unit-velocity curve for category 1 streams

Accumulated percentage	Unit term[1]
0	-0.100
4	-.040
18	-.010
40	0
60	.020
80	.060
95	.160
98	.360
100	.710

[1] Mean daily exceedance discharge divided by the bankful cross-sectional area.

The measurements are congregated in the extreme northeastern and extreme southwestern sections of the State (pl. 2). The area void of discharge measurements in the middle part of the Mississippi River Delta is mostly swamp land or large farming areas. It is inaccessible to the public because there are very few or no access roads. The same is true for the lower part of the Mississippi River Delta and the coastal marshes.

Review of table 2 shows that only about 15 percent of the streams visited had flow. About 30 percent of the streams were dry and about 55 percent had no flow. A no-flow stream is one that has water in the stream channel, but the water is stagnant or dead. In the instance of a no-flow stream, the current meter was inserted into the water at several locations along the cross section in an attempt to detect any velocity in the stream. In addition, the channel was checked upstream and downstream for possible control situations where the water might be flowing. Local people at each site were interrogated, where possible, to try to gain some insight into the flow pattern of each stream.

About 85 percent of streams monitored in the Mississippi River Delta, prairies, and coastal marshes either had no flow or was dry (table 2). Although it is not conclusive, the assumption can be made that the same conditions exist in the other areas of the Mississippi River Delta, prairies, and coastal marshes where periodic discharge measurements could not be made.

Lee (1985, p. 41) described four areas of the State as regions that show different low-flow regimes. Areas defined as not having enough data to make an analysis were the Mississippi River Delta, prairies, and coastal marshes. These areas correspond to areas where periodic discharge measurements were made during this study. In general, rainfall amounts were above normal for the measurement period in 1982, near normal for the measurement period in 1983, and below normal for the measurement period in 1984. Based on the rainfall record and information contained in table 2, the assumption is made that the 7-day, 2-year, and 10-year discharges are equal to 0 throughout the area.

SUMMARY

Favorable results were obtained from the bidirectional electromagnetic flowmeter system used to measure streamflow at Vermilion River at Lafayette: (1) Regression analysis which compared measured instantaneous discharge and discharge computed using electromagnetic average velocity showed good results with an adjusted R^2 value was 0.96; (2) regression analysis of daily mean discharges computed from flowmeter measurements and available stage-fall-discharge methods showed variations from day to day, but the overall relation was within the limits of accuracy expected. The adjusted R^2 value was 0.92; and (3) comparison of total runoff for a specific time period showed that the total for the electromagnetic flowmeter was about 7 percent greater than the total computed using the stage-fall-discharge method.

Seven streams in the prairies and coastal marshes were grouped into three categories according to distinct flow characteristics: (1) Streams affected by daily tidal fluctuation and headwater flow--Bayou Choupique and Bayou Lacassine; (2) streams affected by rainfall and possibly backwater, and that flow only during excessive rainfall--Bayou Queue de Tortue, Bayou Grosse Tete, and Bayou Chene; and (3) streams that have continuous flow and are affected intermittently by tidal fluctuations--Vermilion River and Amite River.

Index velocity (velocity at flowmeter probes) can be used to estimate the average stream velocity at the four locations where the relation between index velocity and average velocity has been developed. These curves can be used to estimate the maximum daily instantaneous, daily mean, and minimum daily instantaneous discharges.

Streamflow variability of the four sites where index-velocity curves are developed can be used to estimate the range in flow that can be expected at each of these sites. A unit-velocity curve developed for category 1 streams, using Bayou Choupique and Bayou Lacassine, shows potential as a method for estimating streamflow variability in the prairies and coastal marshes at sites where no streamflow information is available.

Discharge measurements made in the Mississippi River Delta, prairies, and coastal marshes show that only 15 percent of the sites visited has flow. About 30 percent of the streams were dry and about 55 percent had no-flow (a no-flow stream is one that has water in the channel but the water is either stagnant or dead). About 85 percent of the streams visited were either in a no-flow state or dry. Based on this information, the 7-day, 2-year, and 10-year discharges are assumed to be zero for these areas.

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HYDROLOGIC DATA

TABLES 5-8

Table 5a.--Daily discharge data for Vermilion River near Lafayette, La., for the 1982 water year

[M, month of the year; D, day of the month; MXQ, maximum instantaneous daily discharge; MIQ, minimum instantaneous daily discharge; MNQ, mean daily discharge; TMAX, time of maximum instantaneous daily discharge; TMIN, time of minimum instantaneous daily discharge; MXS, maximum instantaneous daily stage; MIS, minimum instantaneous daily stage; MNS, mean daily stage; VDS, volume of flow downstream; VUS, volume of flow upstream; 99999, missing data]

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours		Feet			Million gallons per day	
6	25	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
6	26	469	-590	-259	0100	1500	4.78	4.30	4.51	3.33	27.06
6	27	170	-1070	-385	2100	1100	5.28	4.55	4.86	0.61	31.14
6	28	640	-390	109	1600	0100	5.16	4.81	4.94	25.65	14.44
6	29	589	-303	160	1500	1100	4.80	4.51	4.59	23.66	9.90
6	30	584	-283	357	0400	0900	4.48	4.23	4.32	34.59	3.86
7	1	821	-279	386	2400	0200	5.16	4.35	4.79	40.50	6.69
7	2	930	-187	640	0200	0800	5.07	4.50	4.80	55.58	0.76
7	3	652	-239	467	0200	0800	4.46	4.01	4.17	40.88	0.88
7	4	500	-248	346	0100	0800	4.08	3.61	3.87	30.77	1.15
7	5	473	-273	267	0600	0800	4.20	3.51	3.85	24.92	1.95
7	6	466	-277	271	0600	0800	4.28	3.61	3.97	24.59	1.17
7	7	458	-282	282	1100	0800	4.14	3.54	3.86	25.16	1.01
7	8	445	-308	159	1000	0500	3.95	3.41	3.72	18.73	5.14
7	9	367	-334	47	0200	0400	3.90	3.24	3.60	11.76	7.89
7	10	435	-302	160	1100	0700	4.21	3.38	3.78	17.85	3.82
7	11	427	-308	213	1100	0900	4.08	3.56	3.84	21.13	2.87
7	12	401	-320	199	1000	0800	3.92	3.29	3.62	19.19	2.16
7	13	327	-340	9	0300	0900	3.88	3.41	3.64	8.14	7.50
7	14	288	-550	-17	0100	0900	3.98	3.42	3.67	9.83	11.27
7	15	330	-820	-159	2400	0900	4.42	3.35	3.91	4.10	17.70
7	16	293	-873	-174	2200	0900	4.60	4.00	4.32	7.57	22.70
7	17	373	-521	6	2400	1300	4.51	3.71	4.16	10.97	10.24
7	18	422	-507	-30	0300	1300	4.80	4.00	4.40	11.00	13.62
7	19	375	-671	-111	0200	1100	4.41	3.76	4.14	6.93	16.15
7	20	422	-347	-36	2400	0600	4.65	3.42	4.00	8.99	11.76
7	21	377	-1000	-105	2200	1100	4.67	4.16	4.39	9.59	18.61
7	22	388	-370	92	1300	1100	4.47	3.71	4.17	11.18	3.72
7	23	301	-93	127	1300	1900	4.36	3.54	3.93	12.50	1.19
7	24	248	-340	99	0400	1200	3.77	3.01	3.43	11.54	3.15
7	25	235	-194	93	2400	1800	3.94	3.16	3.52	9.13	1.02
7	26	346	0	212	0400	1900	4.14	3.52	3.75	18.21	0.00
7	27	319	-52	206	1000	2100	3.91	3.44	3.65	17.91	0.36
7	28	233	0	144	0900	2400	3.57	3.12	3.36	12.08	0.00
7	29	316	-49	127	2400	1200	3.20	2.78	3.18	6.23	0.02
7	30	504	281	399	0600	0100	4.41	3.22	3.89	34.62	0.00
7	31	571	295	446	2400	1300	4.28	3.81	4.14	38.59	0.00
8	1	826	220	529	2400	1800	5.26	3.91	4.41	46.09	0.00
8	2	1200	736	926	0700	1600	5.68	5.32	5.50	79.97	0.00
8	3	943	499	742	0400	1900	5.39	4.88	5.06	63.64	0.00
8	4	703	386	540	0500	2100	4.85	4.46	4.60	46.30	0.00
8	5	588	302	459	0200	1500	4.53	4.19	4.37	39.48	0.00
8	6	1020	-625	99999	2400	2000	7.40	4.16	99999	40.33	3.68
8	7	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	8	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	9	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	10	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	11	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	12	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	13	1600	1490	1550	0600	1300	7.34	7.25	7.30	134.06	0.00
8	14	1570	1350	1480	0100	2400	7.23	6.87	7.06	126.98	0.00
8	15	1340	926	1140	0200	2000	6.88	6.41	6.67	97.43	0.00
8	16	1000	632	828	0400	1900	6.74	6.22	6.39	71.36	0.00

Table 5a.--Daily discharge data for Vermilion River near Lafayette, La., for the 1982 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
8	17	962	555	798	0400	2100	6.25	5.43	5.77	68.52	0.00
8	18	772	477	638	0400	2100	5.39	4.95	5.11	54.73	0.00
8	19	693	381	552	0600	2100	5.34	4.81	5.08	47.37	0.00
8	20	579	353	485	1000	2100	5.33	4.90	5.05	51.59	0.00
8	21	532	344	433	1000	2400	5.07	4.37	4.68	37.27	0.00
8	22	426	243	329	1000	1500	4.56	3.97	4.27	28.31	0.00
8	23	357	194	275	0600	1300	4.18	3.74	3.98	23.69	0.00
8	24	363	126	271	2300	1500	3.87	3.58	3.72	23.28	0.00
8	25	365	182	262	0100	1400	3.72	3.38	3.57	22.50	0.00
8	26	360	129	255	0200	1000	3.68	3.17	3.44	21.94	0.00
8	27	361	72	237	0300	1200	3.90	3.01	3.49	20.11	0.00
8	28	363	85	248	0300	1100	3.78	3.15	3.47	21.24	0.00
8	29	337	57	232	0400	1200	3.75	3.07	3.42	19.85	0.00
8	30	324	-15	172	0300	1500	4.19	3.05	3.62	14.82	0.07
8	31	355	-15	176	0400	1400	4.49	3.56	4.00	15.20	0.05
9	1	349	0	175	0500	1200	4.55	3.78	4.19	14.95	0.00
9	2	337	8	202	0500	1400	4.42	3.74	4.12	17.34	0.00
9	3	342	-381	130	0700	1300	5.07	3.48	4.10	14.70	3.85
9	4	422	38	284	0800	2300	4.97	3.93	4.41	24.32	0.00
9	5	382	-46	197	1000	2300	4.25	3.63	3.93	17.00	0.24
9	6	349	0	199	0900	0100	4.45	3.75	4.13	17.19	0.00
9	7	294	-52	164	0600	0100	4.20	3.37	3.81	14.39	0.25
9	8	278	-14	131	2100	0200	4.05	3.46	3.82	11.38	0.11
9	9	497	-40	110	1100	1700	4.43	3.57	4.08	10.32	0.55
9	10	359	-57	100	2400	1000	4.77	3.81	4.40	10.03	1.23
9	11	356	-1920	-657	0300	1300	9.96	4.04	6.97	4.84	63.50
9	12	990	-2130	163	2400	1300	9.85	8.19	8.97	35.21	18.11
9	13	1220	949	1130	2400	1500	8.17	7.75	7.96	98.02	0.00
9	14	1290	779	1150	0600	1000	7.78	7.13	7.40	70.00	0.00
9	15	1120	801	985	0700	2200	7.02	6.12	6.54	84.65	0.00
9	16	969	746	860	0500	1500	6.08	5.39	5.66	73.90	0.00
9	17	778	558	679	0600	1400	5.45	5.01	5.20	58.24	0.00
9	18	670	515	590	1000	0200	5.32	4.82	5.08	50.84	0.00
9	19	621	302	485	1000	1500	4.94	4.52	4.73	41.50	0.00
9	20	402	298	349	2400	0300	4.84	4.26	4.60	30.01	0.00
9	21	553	302	437	2400	0900	4.37	3.76	4.16	37.91	0.00
9	22	550	351	466	0100	1700	3.77	3.59	3.69	40.04	0.00
9	23	465	304	395	0100	0700	4.29	3.64	4.11	34.01	0.00
9	24	504	279	391	0100	0900	4.64	4.00	4.35	33.73	0.00
9	25	506	231	402	0200	1000	4.67	4.01	4.33	34.65	0.00
9	26	486	304	397	0100	1700	4.00	3.70	3.82	34.12	0.00
9	27	439	63	266	0500	1300	4.40	3.44	3.96	22.75	0.00
9	28	430	24	258	0300	1300	4.56	3.74	4.17	22.22	0.00
9	29	376	-8	195	0100	1200	4.67	3.83	4.30	16.67	0.02
9	30	366	-33	190	0200	1400	4.70	4.02	4.39	16.16	0.21

Table 5b.--Daily discharge data for Vermilion River near Lafayette, La., for the 1983 water year

[M, month of the year; D, day of the month; MXQ, maximum instantaneous daily discharge; MIQ, minimum instantaneous daily discharge; MNQ, mean daily discharge; TMAX, time of maximum instantaneous daily discharge; TMIN, time of minimum instantaneous daily discharge; MXS, maximum instantaneous daily stage; MIS, minimum instantaneous daily stage; MNS, mean daily stage; VDS, volume of flow downstream; VUS, volume of flow upstream; 99999, missing data]

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours		Feet			Million gallons per day	
10	1	360	-33	198	0500	2300	4.63	4.19	4.41	17.36	0.30
10	2	361	-67	176	0400	2400	4.71	4.13	4.43	15.59	0.48
10	3	349	-65	186	0800	2400	4.76	4.13	4.43	16.33	0.36
10	4	324	-75	148	0600	0200	4.67	4.06	4.40	13.63	0.87
10	5	318	-64	136	0800	0100	4.72	4.13	4.46	13.01	1.21
10	6	316	-74	76	2300	0300	5.06	4.38	4.74	8.80	1.83
10	7	574	-854	25	2400	0900	7.16	4.36	5.93	15.13	12.41
10	8	1050	-956	21	2300	0900	7.50	7.22	7.40	35.32	32.73
10	9	1200	615	924	0400	1100	7.22	6.81	7.04	79.57	0.00
10	10	977	682	888	0300	2400	6.83	6.08	6.55	76.16	0.00
10	11	628	436	544	0100	1200	6.01	4.80	5.38	46.79	0.00
10	12	538	103	359	0100	1300	5.66	4.33	4.94	30.57	0.00
10	13	732	416	507	1100	1400	5.63	4.14	4.93	43.69	0.00
10	14	445	43	307	0400	2200	4.04	3.39	3.65	25.76	0.00
10	15	363	-53	186	0600	2300	4.03	3.40	3.69	16.20	0.44
10	16	325	0	229	0900	0100	4.19	3.04	3.59	19.73	0.00
10	17	311	-21	146	1100	2400	3.60	3.24	3.39	12.59	0.14
10	18	248	-37	118	0700	0200	4.14	3.58	3.85	10.73	0.44
10	19	280	-46	132	1900	1000	4.21	3.45	3.93	12.11	0.36
10	20	291	-99	114	1700	0600	4.38	3.44	3.97	11.14	1.30
10	21	291	-14	184	0200	1400	3.36	2.80	3.17	15.58	0.04
10	22	247	-42	120	2200	0700	3.54	2.72	3.18	10.88	0.40
10	23	223	-7	122	0100	0900	3.36	2.62	2.99	10.43	0.04
10	24	235	-56	76	2100	1700	3.44	2.45	2.98	7.32	0.92
10	25	233	-131	72	1600	1000	3.88	2.91	3.41	9.09	2.80
10	26	250	-117	80	0200	1200	3.81	2.97	3.39	9.44	2.62
10	27	256	-116	50	0500	1400	3.84	2.87	3.43	6.80	2.56
10	28	240	-133	70	0500	1000	4.25	3.40	3.88	8.01	2.00
10	29	323	-70	132	0400	1100	4.31	3.78	4.04	12.31	1.20
10	30	317	-71	139	0600	2400	4.33	3.90	4.10	12.96	1.08
10	31	337	-71	145	0600	1100	4.39	3.90	4.15	13.51	0.98
11	1	315	-64	143	1900	0100	4.50	3.93	4.28	12.92	0.52
11	2	338	-88	122	1800	0200	4.79	4.23	4.53	12.06	1.10
11	3	300	64	222	0800	0300	4.40	3.31	3.99	19.18	0.00
11	4	306	156	234	0400	2100	3.23	1.62	2.43	19.93	0.00
11	5	270	-77	93	2400	1400	3.01	1.48	2.30	9.24	1.05
11	6	334	-105	59	2400	1300	4.18	2.54	3.50	8.34	3.10
11	7	324	-84	174	2400	1000	4.14	3.41	3.76	15.96	0.99
11	8	334	-81	128	0300	1000	4.07	3.12	3.66	12.19	1.34
11	9	308	-67	121	0300	1100	4.05	3.26	3.75	11.19	0.81
11	10	315	-84	156	0500	1100	4.19	3.52	3.83	14.39	1.05
11	12	289	-77	83	0200	1300	4.64	4.22	4.43	6.37	0.63
11	13	436	104	356	0300	2400	3.67	2.32	2.88	30.12	0.00
11	14	408	0	161	1900	1100	4.31	2.97	3.80	13.74	0.00
11	15	408	39	307	1400	0100	4.26	2.81	3.55	26.63	0.00
11	16	464	30	170	1700	0600	4.32	3.21	3.86	14.67	0.00
11	17	427	48	267	1600	0500	4.52	3.78	4.19	22.96	0.00
11	18	423	73	280	2300	0500	4.50	3.61	4.15	24.45	0.00
11	19	484	96	315	2100	0500	4.47	3.74	4.41	27.07	0.00
11	20	524	151	339	1800	0800	4.80	3.92	4.42	29.20	0.00
11	21	563	256	438	1900	0700	4.70	4.03	4.39	37.91	0.00
11	22	563	312	456	0100	0900	4.55	3.91	4.28	39.19	0.00
11	23	541	289	446	2400	0900	4.70	4.00	4.37	38.48	0.00
11	24	545	402	469	0100	2200	4.25	3.30	3.92	40.24	0.00

Table 5b.--Daily discharge data for Vermilion River near Lafayette, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
11	25	502	264	397	0100	1300	3.75	2.91	3.38	34.07	0.00
11	26	531	210	338	1500	0800	4.80	3.81	4.45	29.26	0.00
11	27	636	-153	413	2400	1200	9.21	4.50	6.44	36.96	1.04
11	28	1610	664	1100	2400	0100	9.23	8.05	8.66	96.82	0.00
11	29	1830	1430	1690	1800	2200	8.02	7.78	7.86	145.87	0.00
11	30	1810	1120	1450	0300	0900	8.78	7.71	8.19	124.35	0.00
12	1	1710	1150	1390	2400	0200	8.85	8.70	8.78	121.26	0.00
12	2	1740	1520	1660	0400	1900	8.72	8.58	8.65	143.26	0.00
12	3	1720	-1210	840	0100	2400	12.39	8.57	9.87	79.19	11.91
12	4	1230	-1640	-438	2400	0200	12.70	11.88	12.36	20.17	53.64
12	5	2670	1350	2250	2300	0100	11.86	11.57	11.71	196.71	0.00
12	6	2970	2480	2760	1700	2000	11.57	11.42	11.49	238.43	0.00
12	7	3130	2030	2740	1600	1200	11.40	11.28	11.34	236.52	0.00
12	8	3190	2040	2680	1800	2200	11.27	11.13	11.20	231.33	0.00
12	9	3280	2410	3030	0500	2300	11.12	10.91	11.01	260.75	0.00
12	10	3320	2940	3120	0500	2200	10.91	10.70	10.80	270.36	0.00
12	11	3190	2720	3080	0300	2400	10.68	10.46	10.59	265.19	0.00
12	12	3100	2770	2960	0700	2200	10.45	10.01	10.24	256.38	0.00
12	13	3080	2190	2740	0500	2300	10.03	9.72	9.86	235.70	0.00
12	14	2790	1810	2400	0100	2100	9.71	9.42	9.57	206.71	0.00
12	15	2490	1620	1900	0100	2000	10.05	9.42	9.87	163.21	0.00
12	16	2560	1630	2210	1800	2000	9.95	9.61	9.78	191.48	0.00
12	17	2360	1950	2220	0400	2000	9.61	9.29	9.47	191.31	0.00
12	18	2520	2100	2290	0500	2300	9.27	8.91	9.13	197.61	0.00
12	18	2520	2100	2290	0500	2300	9.27	8.91	9.13	197.61	0.00
12	19	2320	1920	2150	0300	2000	8.92	8.54	8.76	185.29	0.00
12	20	2100	1220	1740	0100	2100	8.52	8.19	8.35	149.05	0.00
12	21	1580	1040	1380	0400	2200	8.17	7.92	8.07	118.84	0.00
12	22	1460	1180	1340	0500	2000	7.91	7.40	7.76	115.41	0.00
12	23	1290	1010	1150	0300	2300	7.36	6.79	7.08	98.84	0.00
12	24	1100	886	997	0200	2200	6.76	6.61	6.69	85.83	0.00
12	25	929	838	892	0400	2400	6.66	6.52	6.58	76.86	0.00
12	26	875	-2000	-225	0600	2000	13.32	6.48	9.71	34.38	57.26
12	27	-857	-2110	-1370	0800	1700	13.36	12.97	13.21	0.00	118.52
12	28	2440	-1030	1010	2400	0100	13.19	12.80	12.92	103.77	10.58
12	29	3690	2590	3140	1800	0100	12.80	12.61	12.72	273.33	0.00
12	30	4220	3570	3850	1500	2000	12.63	12.47	12.55	333.01	0.00
12	31	4100	1680	3490	1100	2400	13.05	12.41	12.59	297.82	0.00
1	1	2450	1650	2070	2400	0300	13.38	13.13	13.28	178.93	0.00
1	2	4100	2810	3600	2400	0100	13.37	13.13	13.25	310.63	0.00
1	3	4290	2900	3790	0700	2200	13.12	12.91	13.01	327.17	0.00
1	4	4150	2720	3610	1300	2000	12.93	12.79	12.86	311.36	0.00
1	5	3870	2560	3340	1300	2000	12.79	12.61	12.71	288.78	0.00
1	6	3640	2770	3330	0300	1900	12.64	12.47	12.55	287.48	0.00
1	7	3650	3290	3500	0600	0900	12.46	12.29	12.38	301.88	0.00
1	8	3540	2780	3360	1200	1000	12.29	12.11	12.20	290.11	0.00
1	9	3260	3060	3160	0200	2300	12.11	11.91	12.01	272.62	0.00
1	10	3140	2590	2910	0100	1900	11.91	11.61	11.79	250.88	0.00
1	11	3130	2510	2940	1500	0900	11.67	11.41	11.55	253.94	0.00
1	12	3100	2740	2960	0300	2000	11.41	11.12	11.28	255.06	0.00
1	13	2960	2690	2860	0400	1900	11.11	10.81	10.97	246.42	0.00
1	14	2850	2550	2710	0100	1800	10.83	10.52	10.68	233.82	0.00
1	15	2830	2700	2760	0900	2400	10.51	10.17	10.35	238.51	0.00
1	16	2830	2520	2670	0600	1800	10.16	9.81	9.98	230.36	0.00
1	17	2620	2100	2420	0300	1000	9.80	9.46	9.65	208.24	0.00
1	18	2400	2090	2260	0200	1900	9.45	9.16	9.30	194.46	0.00
1	19	2280	1740	2050	0200	2400	9.44	9.12	9.18	175.91	0.00
1	20	1630	-940	22	0100	1000	12.03	9.55	11.39	30.35	29.91
1	21	3010	1060	2150	2400	0100	11.55	11.21	11.33	189.64	0.00

Table 5b.--Daily discharge data for Vermilion River near Lafayette, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours			Feet		Million gallons per day	
1	22	3470	2980	3210	2400	1700	11.21	11.01	11.14	278.34	0.00
1	23	3470	2980	3210	2400	1700	11.21	10.91	11.02	299.05	0.00
1	24	3500	3230	3370	0300	1100	10.98	10.81	10.91	291.17	0.00
1	25	3340	2860	3090	2400	1600	10.96	10.81	10.92	266.81	0.00
1	26	3360	3140	3260	2400	1100	10.85	10.61	10.75	281.85	0.00
1	27	3330	2110	3070	0500	1200	10.63	10.37	10.52	264.43	0.00
1	28	3230	2840	3020	0500	1600	10.36	10.01	10.20	260.35	0.00
1	29	2870	2590	2750	0400	1500	10.08	9.86	9.99	237.19	0.00
1	30	2790	2540	2700	0800	1800	9.86	9.54	9.71	233.18	0.00
1	31	2690	1570	2410	0200	2400	10.08	9.33	9.46	205.91	0.00
2	1	2210	1380	1720	2300	0200	10.31	10.01	10.25	150.00	0.00
2	2	2610	2220	2415	2315	0200	10.27	10.11	10.20	194.70	0.00
2	3	2800	2330	2560	1300	0145	10.10	9.91	10.00	220.87	0.00
2	4	2760	2190	2470	0045	1000	9.93	9.77	9.85	212.38	0.00
2	5	2460	-1090	1070	0015	2145	12.04	9.70	10.56	119.25	28.80
2	6	2790	-930	1170	2315	0030	12.04	11.34	11.64	113.14	10.36
2	7	3510	2690	3160	2245	0015	11.34	11.01	11.18	272.87	0.00
2	8	3590	3030	3340	0415	0945	11.07	10.81	10.96	288.04	0.00
2	9	3500	1460	2940	0030	2330	11.48	10.80	10.96	253.13	0.00
2	10	3100	1370	2150	2300	0245	11.59	11.35	11.51	185.57	0.00
2	11	3680	2640	3270	2400	1030	11.35	11.01	11.17	282.47	0.00
2	12	3600	3160	3420	2100	1930	11.03	10.80	10.92	294.92	0.00
2	13	3520	3040	3330	0200	2300	10.80	10.52	10.66	287.53	0.00
2	14	3430	2630	3140	0345	0700	10.52	10.20	10.36	270.38	0.00
2	15	3230	2650	2880	0100	1245	10.19	9.81	10.02	248.25	0.00
2	16	2900	2100	2590	0530	2015	9.84	9.42	9.65	223.04	0.00
2	17	2700	1300	2330	0015	0800	9.41	8.81	9.14	200.40	0.00
2	18	2350	1820	2030	0015	1030	8.87	8.34	8.60	174.96	0.00
2	19	2090	1630	1840	1215	2330	8.33	7.84	8.06	158.19	0.00
2	20	1750	1470	1620	1045	2315	7.82	7.36	7.57	139.09	0.00
2	21	1530	1220	1380	0115	0900	7.37	7.01	7.23	118.51	0.00
2	22	1500	1260	1330	1715	0815	7.07	6.46	6.79	114.43	0.00
2	23	1350	848	1210	0400	1930	6.45	5.91	6.17	103.66	0.00
2	24	1200	688	1060	1745	1900	5.97	5.61	5.82	91.36	0.00
2	25	1060	866	993	2200	1945	5.70	5.30	5.55	85.26	0.00
2	26	993	792	892	0015	2345	5.49	5.28	5.38	76.51	0.00
2	27	947	762	844	2100	0045	5.63	5.41	5.55	72.51	0.00
2	28	1150	853	998	2230	0115	6.02	5.61	5.89	85.88	0.00
3	1	1120	735	991	0015	1945	5.88	5.60	5.76	85.08	0.00
3	2	992	624	876	1800	2000	5.64	5.20	5.46	75.23	0.00
3	3	908	548	800	0015	1915	5.19	4.91	5.08	68.69	0.00
3	4	815	347	661	0030	0730	6.06	5.01	5.44	56.55	0.00
3	5	1150	485	870	2330	0515	7.02	6.01	6.69	74.92	0.00
3	6	1240	1090	1150	1545	0530	6.98	6.50	6.70	99.02	0.00
3	7	1170	739	1050	0515	2015	6.49	6.11	6.28	90.15	0.00
3	8	1110	704	728	1715	2130	6.22	5.70	5.96	83.26	0.00
3	9	1030	593	916	1730	2130	5.79	5.20	5.54	77.87	0.00
3	10	1120	654	960	1715	2100	5.19	4.55	4.86	82.49	0.00
3	11	1020	482	891	0045	1545	4.54	4.23	4.42	76.43	0.00
3	12	896	378	682	0015	2400	4.30	4.13	4.23	58.26	0.00
3	13	783	352	611	1445	0145	4.42	4.18	4.33	52.36	0.00
3	14	724	626	670	0530	0145	4.42	4.30	4.38	16.74	0.00
3[a]	15	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
4	12	2160	1490	1890	1715	1945	8.86	8.71	8.81	83.32	0.00
4	13	2190	1200	1920	0630	1115	8.85	8.70	8.74	165.08	0.00
4	14	1900	1310	1740	1645	2000	8.81	8.36	8.61	149.72	0.00

[a] Data are missing from 3-15 to 4-11.

Table 5b.--Daily discharge data for Vermilion River near Lafayette, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
4	15	1890	1380	1750	0100	2115	8.36	7.71	8.07	150.33	0.00
4	16	1770	1530	1670	0015	2300	7.77	7.35	7.53	144.04	0.00
4	17	1600	1400	1490	1245	1930	7.35	6.80	7.10	128.54	0.00
4	18	1440	979	1310	0045	2100	6.92	6.46	6.66	112.69	0.00
4	19	1380	827	1200	1130	2100	6.46	6.11	6.26	103.26	0.00
4	20	1190	740	990	1530	2145	6.48	6.00	6.33	84.97	0.00
4	21	1090	652	926	1345	2000	6.29	5.91	6.11	79.47	0.00
4	22	1010	644	876	1530	1645	6.80	5.91	6.30	75.25	0.00
4	23	1130	758	1000	1745	1945	6.76	5.90	6.40	86.22	0.00
4	24	1210	999	1090	1715	2345	5.99	5.20	5.52	93.90	0.00
4	25	1010	643	875	0115	2000	5.31	5.00	5.09	74.98	0.00
4	26	881	626	772	0900	1930	5.31	5.00	5.19	66.19	0.00
4	27	822	564	707	0515	1900	5.33	5.00	5.18	60.59	0.00
4	28	793	571	703	0545	1445	5.32	5.00	5.16	60.26	0.00
4	29	774	529	676	0515	1400	5.37	4.80	5.11	57.91	0.00
4	30	763	477	652	0645	1715	5.51	4.80	5.20	55.80	0.00
5	1	761	428	616	0645	1815	5.83	5.00	5.40	52.77	0.00
5	2	744	522	639	2345	1530	6.21	5.20	5.67	54.75	0.00
5	3	995	715	854	2300	0200	6.21	5.60	5.92	73.35	0.00
5	4	1030	759	952	0900	1915	5.69	5.20	5.47	81.75	0.00
5	5	1160	818	958	1600	2115	5.59	5.20	5.42	82.36	0.00
5	6	1100	740	983	0545	1100	5.85	5.38	5.57	84.39	0.00
5	7	1050	864	980	2345	1100	5.85	5.60	5.79	84.25	0.00
5	8	1210	1030	1130	1800	0015	5.79	5.20	5.53	97.36	0.00
5	9	1120	805	1010	0045	2000	5.53	5.20	5.35	86.75	0.00
5	10	1020	765	916	1945	1000	5.71	5.40	5.55	78.78	0.00
5	11	1050	839	934	0600	0930	5.79	5.40	5.55	72.35	0.00
5	12	983	732	874	0630	1400	5.90	5.60	5.76	75.11	0.00
5	13	1050	671	888	0600	1330	6.02	5.60	5.81	76.32	0.00
5	14	1020	784	888	0800	1700	6.22	5.80	6.01	76.21	0.00
5	15	1010	119	791	0945	1745	6.90	6.00	6.13	67.80	0.00
5	16	1210	838	1020	2400	0015	6.99	6.00	6.47	87.93	0.00
5	17	1200	641	1020	0500	0730	6.31	4.80	5.74	87.57	0.00
5	18	977	792	895	1200	1545	6.77	6.20	6.37	76.85	0.00
5	19	1220	802	1000	1700	1115	6.85	6.40	6.64	86.09	0.00
5	20	1210	-1570	756	0430	2400	10.50	6.24	6.97	72.29	8.43
5	21	302	-2420	-1010	2115	2345	12.37	10.00	10.53	2.09	89.08
5	22	1220	-2590	-602	2400	0145	12.85	10.80	12.28	19.36	69.62
5	23	2440	1290	1920	2300	0045	10.86	10.40	10.70	166.26	0.00
5	24	2690	1910	2360	2330	1530	10.61	10.40	10.51	203.47	0.00
5	25	2790	2150	2500	1745	1500	10.47	10.20	10.38	215.86	0.00
5	26	2780	2030	2460	0430	1245	10.33	10.00	10.23	212.42	0.00
5	27	2720	1950	2450	0600	0830	10.19	10.00	10.09	210.77	0.00
5	28	2940	2420	2670	0530	0945	11.01	10.00	10.77	230.69	0.00
5	29	2780	2400	2650	1015	2315	10.83	10.40	10.66	228.38	0.00
5	30	2620	2030	2360	0130	1415	10.59	10.20	10.42	202.97	0.00
5	31	2550	1830	2240	0115	1430	10.31	8.80	10.06	193.01	0.00
6	1	2190	1640	1940	0015	2015	8.99	8.40	8.76	166.83	0.00
6	2	1980	1480	1740	0015	1515	8.59	8.00	8.35	149.39	0.00
6	3	1820	1330	1640	1830	0815	8.99	8.00	8.52	140.81	0.00
6	4	1780	1550	1680	0915	2400	8.79	8.20	8.52	144.57	0.00
6	5	1660	1240	1490	1015	2200	8.31	6.80	7.61	127.88	0.00
6	6	1360	904	1180	0015	1445	6.96	6.60	6.79	101.37	0.00
6	7	1300	916	1130	1000	1515	6.90	6.20	6.62	97.55	0.00
6	8	1280	931	1120	1945	1515	6.99	6.00	6.38	96.10	0.00
6	9	1170	372	1040	0345	0730	6.85	6.40	6.59	89.73	0.00
6	10	1080	758	933	0530	1400	6.47	6.20	6.27	80.04	0.00
6	11	952	755	890	0830	1230	6.22	4.80	5.91	76.41	0.00
6	12	885	642	791	1045	1545	6.09	4.80	5.45	67.80	0.00

Table 5b.--Daily discharge data for Vermilion River near Lafayette, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours			Feet		Million gallons per day	
6	13	818	479	680	0100	1400	6.05	4.60	5.17	58.16	0.00
6	14	775	543	664	0230	2115	6.03	4.60	4.97	56.85	0.00
6	15	752	523	667	0700	1300	4.83	4.40	4.56	57.16	0.00
6	16	734	271	661	0500	2330	6.26	4.20	4.46	56.55	0.00
6	17	1520	475	1145	1745	0015	6.95	6.00	6.52	97.43	0.00
6	18	1400	835	1130	0200	1030	6.95	6.00	6.48	96.95	0.00
6	19	1280	977	1130	0845	0030	6.99	6.00	6.58	97.72	0.00
6	20	1320	997	1190	1900	2130	6.85	6.40	6.79	102.54	0.00
6	21	1300	864	1130	0100	2115	6.71	6.00	6.42	96.78	0.00
6	22	1160	579	958	0015	1430	6.63	4.80	6.01	82.27	0.00
6	23	1270	918	1110	1745	2115	7.01	6.00	6.62	95.50	0.00
6	24	1140	911	1040	0215	1245	6.33	6.00	6.13	89.42	0.00
6	25	1240	794	998	1345	2015	7.01	6.00	6.31	85.71	0.00
6	26	1020	860	951	0815	0030	6.73	6.00	6.43	70.67	0.00
6	27	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
6	28	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
6	29	1560	1140	1360	2315	1030	9.07	8.98	9.03	75.62	0.00
6	30	1620	981	1370	0330	1545	9.22	8.83	8.97	118.07	0.00
7	1	1510	1170	1350	1700	2145	9.02	8.65	8.85	115.77	0.00
7	2	1460	1190	1340	0300	2315	8.64	8.17	8.40	115.33	0.00
7	3	1290	1040	1180	0945	2130	8.16	7.68	7.92	101.04	0.00
7	4	1130	996	1060	1430	2215	7.68	7.17	7.42	91.98	0.00
7	5	1180	626	970	2145	0900	7.57	6.79	6.99	83.45	0.00
7	6	1450	901	1190	1645	0815	8.19	7.61	8.09	102.63	0.00
7	7	1490	1030	1320	0115	2015	8.18	8.02	8.10	113.78	0.00
7	8	1380	741	1110	0015	1245	8.07	7.74	7.89	94.83	0.00
7	9	1090	921	1000	0745	1645	7.73	7.20	7.44	86.10	0.00
7	10	1040	791	727	1530	2400	7.18	6.60	6.83	79.49	0.00
7	11	889	589	754	0445	0830	6.59	6.05	6.25	64.64	0.00
7	12	876	553	738	0700	2230	6.07	5.60	5.80	63.28	0.00
7	13	746	510	653	0030	2045	5.81	5.36	5.57	55.79	0.00
7	14	647	491	569	1015	2200	5.54	5.14	5.39	48.63	0.00
7	15	753	466	600	1345	1630	5.77	5.23	5.48	51.41	0.00
7	16	865	670	771	1545	0030	5.73	5.56	5.64	66.19	0.00
7	17	928	740	843	1415	1500	5.78	5.53	5.66	72.41	0.00
7	18	918	281	840	0645	1315	5.73	5.51	5.60	72.18	0.00
7	19	916	705	811	0645	1415	5.50	5.28	5.38	69.57	0.00
7	20	962	368	815	2400	1130	5.35	5.08	5.23	70.06	0.00
7	21	1330	136	1050	0930	0915	5.53	5.35	5.42	89.97	0.00
7	22	1190	747	998	0415	1400	6.03	5.34	5.59	85.73	0.00
7	23	1120	857	1020	0915	1430	5.85	5.50	5.58	87.39	0.00
7	24	1080	845	977	0845	2330	5.50	5.17	5.29	83.88	0.00
7	25	971	515	774	0430	1515	5.16	4.84	4.96	66.44	0.00
7	26	931	523	748	0330	1515	7.92	4.61	4.72	64.10	0.00
7	27	862	539	698	0445	1100	4.63	4.36	4.48	59.79	0.00
7	28	825	394	682	1145	1830	4.85	4.26	4.46	57.32	0.00
7	29	807	494	686	0515	1530	4.92	4.55	4.71	58.81	0.00
7	30	840	648	723	1100	1700	5.13	4.92	5.03	62.01	0.00
7	31	830	677	752	1230	1615	5.11	4.88	5.00	64.52	0.00
8	1	921	553	723	2200	1430	5.13	4.76	4.91	62.10	0.00
8	2	920	554	778	0330	1400	5.36	4.85	5.03	66.69	0.00
8	3	901	-1230	153	0245	0645	10.17	5.35	8.81	25.45	12.48
8	4	1970	112	1280	2230	0930	9.82	9.15	9.33	110.90	0.00
8	5	2130	1450	1860	1745	0830	9.14	8.92	9.01	159.87	0.00
8	6	1960	1660	1830	0500	2045	8.92	8.47	8.70	157.55	0.00
8	7	1860	1530	1720	1115	2200	8.46	7.90	8.17	147.68	0.00
8	8	1640	709	1340	0015	1530	8.11	7.51	7.77	114.94	0.00
8	9	1480	1000	1280	2315	0915	7.71	7.23	7.38	110.03	0.00
8	10	1340	736	1170	0100	1400	7.85	7.16	7.43	100.69	0.00

Table 5b.--Daily discharge data for Vermilion River near Lafayette, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours			Feet		Million gallons per day	
8	11	1430	1080	1250	1730	2000	7.41	6.73	7.05	107.32	0.00
8	12	1330	471	885	0200	1515	8.71	6.57	7.63	75.74	0.00
8	13	1580	697	1260	2315	0045	8.69	8.06	8.33	109.03	0.00
8	14	1650	1450	1550	0515	2330	8.05	7.36	7.73	133.53	0.00
8	15	1500	930	1270	0315	1445	7.36	6.81	7.06	109.43	0.00
8	16	1380	650	1090	0215	0630	6.81	6.57	6.69	93.61	0.00
8	17	1190	689	942	0300	1400	6.94	6.40	6.62	80.81	0.00
8	18	1030	631	867	0300	1315	6.76	6.54	6.66	74.42	0.00
8	19	1020	698	871	0300	0845	6.53	5.97	6.23	74.75	0.00
8	20	1030	667	923	0645	1330	5.96	5.57	5.74	79.19	0.00
8	21	1110	498	792	0815	2345	5.41	5.03	5.27	67.77	0.00
8	22	714	272	574	0915	0415	5.13	4.74	4.99	49.07	0.00
8	23	644	255	493	1730	0415	4.88	4.61	4.78	42.04	0.00
8	24	654	253	494	1215	0045	4.77	4.09	4.57	42.28	0.00
8	25	491	99999	99999	0200	2330	4.07	3.19	3.56	25.42	0.00
8	26	693	37	364	2215	0100	5.27	3.63	4.73	31.14	0.00
8	27	727	259	567	0400	1200	5.10	4.36	4.71	48.45	0.00
8	28	692	368	514	0430	0930	4.55	4.02	4.23	43.92	0.00
8	29	687	254	532	1900	0230	4.89	4.36	4.65	45.50	0.00
8	30	675	460	584	0245	0700	5.98	4.78	5.09	36.43	0.00
9	1	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	2	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	3	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	4	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	5	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	6	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	7	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	8	985	644	883	2115	1615	5.75	5.48	5.62	41.86	0.00
9	9	1040	634	897	2215	1345	5.76	5.38	5.59	77.09	0.00
9	10	1010	649	878	0015	1615	5.71	5.31	5.49	75.33	0.00
9	11	1010	82	841	2245	1700	6.38	5.51	5.76	72.22	0.00
9	12	1050	708	914	0300	1415	5.76	5.17	5.48	78.47	0.00
9	13	1040	633	885	0130	1345	5.19	4.81	5.04	75.90	0.00
9	14	1010	529	817	0115	1115	4.89	4.66	4.76	70.13	0.00
9	15	927	474	736	0515	1415	4.97	4.54	4.78	63.04	0.00
9	16	905	445	698	0545	1145	5.16	4.70	4.96	59.81	0.00
9	17	874	0	757	0630	1430	5.94	4.80	5.28	64.25	0.00
9	18	959	720	865	0745	1330	5.61	5.28	5.38	74.28	0.00
9	19	949	-88	549	0345	1930	7.62	4.99	5.76	47.14	0.35
9	20	639	-1180	-299	0515	0730	10.13	7.63	9.31	8.79	34.40
9	21	1670	157	1110	2400	0015	9.59	8.29	8.79	96.36	0.00
9	22	1730	1450	1640	0530	2000	8.28	7.50	7.86	141.23	0.00
9	23	1680	1350	1520	0145	0745	7.50	6.87	7.18	130.57	0.00
9	24	1530	1400	1460	0200	1115	6.87	6.68	6.78	58.83	0.00

Table 5c.--Daily discharge data for Vermilion River near Lafayette, La., for the 1984 water year

[M, month of the year; D, day of the month; MXQ, maximum instantaneous daily discharge; MIQ, minimum instantaneous daily discharge; MNQ, mean daily discharge; TMAX, time of maximum instantaneous daily discharge; TMIN, time of minimum instantaneous daily discharge; MXS, maximum instantaneous daily stage; MIS, minimum instantaneous daily stage; MNS, mean daily stage; VDS, volume of flow downstream; VUS, volume of flow upstream; 99999, missing data]

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours		Feet			Million gallons per day	
10[b]	1	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
11	10	778	638	704	0030	1045	4.65	3.83	4.33	60.31	0.00
11	11	731	553	644	0115	1045	3.81	3.37	3.59	55.15	0.00
11	12	670	362	557	2330	0140	4.41	3.34	3.96	47.66	0.00
11	13	698	400	581	2300	0945	4.71	4.08	4.44	49.75	0.00
11	14	711	374	574	0145	0915	4.67	4.20	4.46	49.10	0.00
11	15	738	475	607	2200	0745	4.72	3.85	4.32	51.96	0.00
11	16	769	252	663	0200	1545	4.09	3.45	3.70	56.72	0.00
11	17	705	93	575	0245	1930	4.83	4.05	4.53	49.07	0.00
11	18	728	463	572	1700	0015	5.09	4.60	4.83	48.95	0.00
11	19	845	-217	565	1600	2115	7.32	4.90	6.39	49.13	0.80
11	20	1360	467	894	1830	0015	7.27	6.43	6.73	76.87	0.00
11	21	1330	619	864	2045	0700	6.43	6.17	6.33	74.43	0.00
11	22	1230	874	1030	0030	0930	6.81	5.91	6.28	88.31	0.00
11	23	1130	549	865	2345	0930	6.95	9.74	6.88	72.24	0.00
11	24	1420	1100	1280	2400	0030	6.74	6.29	6.47	110.06	0.00
11	25	1410	1090	1230	0100	1445	6.28	5.98	6.14	105.71	0.00
11	26	1220	834	1000	2345	1045	8.11	5.85	6.52	86.19	0.00
11	27	1250	215	839	0100	0915	8.40	7.84	8.17	71.87	0.00
11	28	1640	953	1260	1900	0115	7.84	7.61	7.68	87.30	0.00
11	29	1640	1330	1520	1730	2045	7.61	7.49	7.54	58.45	0.00
11	30	1570	1130	1400	0215	1300	7.50	7.10	7.34	120.03	0.00
12	1	1390	928	1180	0230	1700	7.14	6.78	6.99	101.04	0.00
12	2	1130	988	1060	0515	0900	7.04	6.25	6.64	91.25	0.00
12	3	1030	843	970	1245	1030	6.26	5.95	6.13	83.27	0.00
12	4	1240	937	1100	2230	0100	6.49	6.17	6.41	94.56	0.00
12	5	1210	921	1060	0015	2330	6.29	5.90	6.17	90.95	0.00
12	6	1090	789	746	1815	1000	6.36	5.90	6.20	81.29	0.00
12	7	1070	757	914	0445	2100	5.93	5.00	5.47	78.47	0.00
12	8	903	605	761	0115	0800	5.35	5.02	5.18	65.22	0.00
12	9	829	517	690	0100	1200	5.23	4.91	5.07	59.17	0.00
12	10	753	-208	537	0015	2245	5.16	4.76	4.97	46.40	0.81
12	11	1240	-105	634	2345	0015	7.88	5.04	7.39	55.21	0.24
12	12	1470	1110	1350	2115	0800	7.60	7.47	7.49	116.59	0.00
12	13	1470	1240	1370	0615	1100	7.83	7.48	7.67	118.27	0.00
12	14	1470	1230	1380	2300	1300	7.84	7.77	7.81	118.52	0.00
12	15	1450	1230	1330	0030	1030	7.78	7.65	7.73	114.23	0.00
12	16	1350	972	1230	0015	2115	7.65	7.52	7.58	105.70	0.00
12	17	1270	1020	1230	0245	0045	7.52	7.15	7.35	105.94	0.00
12	18	1240	1080	1150	0030	1730	7.16	6.66	6.95	98.78	0.00
12	19	1120	891	1030	0200	1615	6.66	6.01	6.37	88.15	0.00
12	20	1000	796	911	0030	2215	6.02	5.59	5.88	76.90	0.00
12	21	844	737	798	0130	0815	5.98	5.60	5.82	68.42	0.00
12	22	839	728	784	1430	0900	5.81	5.03	5.52	67.24	0.00
12	23	775	683	732	0600	2345	5.02	4.66	4.88	62.74	0.00
12	24	721	613	679	0045	2400	4.65	3.78	4.24	57.14	0.00
12	25	630	554	595	0415	2115	3.77	3.19	3.41	50.89	0.00
12	26	564	481	525	0145	1330	4.07	3.21	3.73	44.87	0.00
12	27	591	335	489	2345	1000	5.49	4.08	4.95	41.76	0.00
12	28	903	586	757	2315	0215	6.21	5.49	5.98	65.01	0.00

[b] Data are missing from 10-1 to 11-9.

			Rat	5(	-D	Y	sch for	ge he	ta 84	r te	mi rea	on -Cc	ver int	ea	af	ett	La			
		C	Q ic	MI(et	r	NQ con	T	X Hc	MI) s		MX		M Fe		M		VI Mi	ior per	al. lay	is
12			10	8(		95	1	0	04!		5.1		5.4		5.		81.		0	
12			39	6!		84	0	0	23(		5.4		4.6		4.		72.		0	
12			54	6:		69	0	5	33(		1.7		4.6		4.(		59.		0	
1			54	54		62	0	0	30(		.7		4.4		4.(		53.		0	
1			15	4!		58	1	0	30(		.7		4.3		4.(		19.		0.	
1			23	4:		55	1	5	20(		.6		4.0		4.(		17.		0.	
1			06	47		54	1	0	11!		.5		4.1		4.(		16.		0.	
1			'2	36		59	2	0	43(		.5		4.0		4.(		50.		0.	
1			'2	49		65	2	5	045		.5		4.0		4.(		56.		0.	
1			2	60		71	1	0	400		.5		4.1		4.(		51.		0.	
1			3	54		66	2	5	545		.6		4.1		4.(		56.		0.	
1			4	-3		47	0	5	530		.3		4.2		5.(		0.		0.	
1	1	1	0	44		05(	2	0	015		.94		8.1		8.(		1.		0.	
1	1	1	0	.50		84(	1	0	530		.09		7.6		7.7		8.		0.	
1	1	1	0	.49		73(	0	0	515		.63		7.3		7.5		8.(		1.	
1	1	1	0	.33		51(	0(		.00		.32		6.6		7.(		0.		0.	
1	1	1	0	20		37(	0(		245		.69		6.0		6.3		7.		0.	
1	1	1	0	06		15(	2		000		.67		6.1		6.4		9.(		0.	
1	1	1	0	06		33(	2		515		.68		.3		6.5		4.		0.	
1	1	1	0	05(		21(	0		30		.32		.3		6.6		3.(		0.	
1	1	1	0	94		.00	2		00		.53		.3		8.1		4.3		0.	
1	1	1	0	34(		'20	2		15		.44		.0		8.1		8.!		0.	
1	2(	1	0	71(		60	0(		15		.02		.6(		'.8		9.'		0.	
1	2	1	0	47(		70	0		00		59		.8		'.2		3.9		0.	
1	2	1	0	03(		70	0		00		82		.3(		.5		7.4		0.	
1	2	1	0	961		60	0		45		29		.9(		.1		9.5		0.	
1	2	1	0	867		30	0		00		94		.91		.2		8.1		0.	
1	2	1	0	818		60	2		45		52		.95		.3		1.5		0.	
1	26	1	0	828		80	1		45		32		.72		.0		9.1		0.	
1	27	1	0	040		20	0		00		71		.12		.4		8.2		0.	
1	28	1	0	150		50	1		00		13		.65		.8		7.2		0.	
1	29	1	0	040		20	0		45		69		.26		.5		6.5		0.	
1	30	1		742		10	0		30		30		.86		.1		6.4		0.	
1	31	1		794		28	0		15		86		.54		.7		0.6		0.	
2	1	9		706		31	2		30		77		.46		.6		.3		0.	
2	2	8		692		60	0		15		78		.46		.6		6.2		2.	
2	3	9		623		38	2		.5		28		54		.0		6.3		0.	
2	4	9		678		34	0		15		07		70		.9		1.1		0.	
2	5	9		704		40	0		.5		80		32		.6		1.0		0.	
2	6	8		76		35	0		30		30		87		.0		.3		0.	
2	7	7		41		73	0		00		91		86		.8		.6		0.	
2	8	6		18		15	0		00		15		90		.9		.5		0.	
2	9	8		03		27	2		5		39		16		.6		.5		0.	
2	10	18		18		00	2		5		79		44		.5	1	.1		0.	
2	11	19		60		00	1		5		58		54		.6	1	.1		0.	
2	12	17		54		00	1		5		18		60		53	1	.6		0.	
2	13	23		60		00	2		5		13		84		02	1	.6		0.	
2	14	23		90		00	1	0			36		80		83	1	.8		0.	
2	15	22		68		15	1	0			36		78		82	1	.8		0.	
2	16	20		30		10	1	5			33		65		77	1	.3		0.	
2	17	20		80		0	2	5			54		20		48	1	.1		0.	
2	18	19		80		0	1	5			36		87		10	1	.5		.0	
2	19	17		70		0	1	0			37		25		58	1	.4		.0	
2	20	15		20		0	1	0			34		64		91	1	.2		.0	
2	21	14		90	1	0		1	0		3		23		41	1	.8		.0	
2	22	13		20	1	0		1	5		3		99		11	1	.5		.0	
2	23	11		00	1	0		2	0		0		37		74		.7		.0	
2	24	10		.9		9		1	5		3		27		44		.0		.0	
2	25	10		78		2		2	0		7		35		04		.6		.0	

Table 5c.--Daily discharge data for Vermilion River near Lafayette, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
2	26	842	270	696	1500	1915	8.10	5.05	5.79	59.68	0.00
2	27	1730	654	1200	2345	0045	8.64	7.82	8.30	103.51	0.00
2	28	1790	1520	1690	1845	1245	7.81	7.40	7.55	145.23	0.00
2	29	1740	1100	1580	0030	2115	7.40	6.82	7.13	136.10	0.00
3	1	1550	1090	1330	0100	2015	6.81	6.24	6.53	114.54	0.00
3	2	1320	864	1160	0015	1330	6.24	5.84	6.04	99.92	0.00
3	3	1190	985	1090	0100	2400	5.86	5.62	5.78	93.85	0.00
3	4	1000	828	912	0030	2345	5.79	5.62	5.70	78.22	0.00
3	5	969	824	885	1930	0115	5.84	5.32	5.65	76.01	0.00
3	6	1000	852	928	1700	2300	5.31	4.40	4.92	79.71	0.00
3	7	911	565	774	0030	2045	4.81	4.41	4.57	66.42	0.00
3	8	816	570	737	0645	2145	4.84	4.73	4.80	63.17	0.00
3	9	816	587	749	0500	2115	4.80	4.54	4.65	64.17	0.00
3	10	790	659	715	1445	2345	4.98	4.60	4.86	61.29	0.00
3	11	789	585	705	1430	0100	5.00	4.00	4.82	60.45	0.00
3	12	690	571	624	1445	0745	5.48	4.97	5.25	53.41	0.00
3	13	822	541	679	1545	1900	5.46	5.00	5.24	58.19	0.00
3	14	742	565	659	1745	2100	5.17	4.82	5.01	56.47	0.00
3	15	719	498	608	1830	0945	5.34	5.00	5.24	52.00	0.00
3	16	718	454	626	1900	1100	5.35	5.10	5.25	53.53	0.00
3	17	733	599	680	2030	1030	5.25	4.98	5.14	58.26	0.00
3	18	792	589	699	0915	2015	5.26	4.91	5.07	59.97	0.00
3	19	1110	546	736	2400	1300	6.13	5.23	5.45	63.36	0.00
3	20	1700	1090	1460	1745	0015	6.68	6.17	6.56	126.14	0.00
3	21	1660	1140	1440	0045	2130	6.51	6.22	6.30	123.38	0.00
3	22	1370	801	1210	0030	1630	6.25	5.98	6.10	103.72	0.00
3	23	1120	713	1020	0115	2130	6.12	5.89	6.02	87.28	0.00
3	24	1190	923	1040	2400	0030	6.10	5.77	5.93	89.79	0.00
3	25	1360	1120	1260	1730	0030	6.05	5.96	6.00	108.86	0.00
3	26	1270	748	1130	0630	2030	6.05	5.88	5.97	97.03	0.00
3	27	1060	840	955	1730	2000	6.09	5.87	5.99	82.04	0.00
3	28	1020	839	932	0730	1330	5.96	5.12	5.65	80.02	0.00
3	29	970	580	823	0015	2000	5.11	4.20	4.60	70.53	0.00
3	30	837	565	707	0015	2145	4.32	4.10	4.20	60.54	0.00
3	31	736	625	694	0800	1115	4.57	4.32	4.45	59.49	0.00
4	1	727	541	677	1400	2200	4.62	4.54	4.57	57.95	0.00
4	2	654	307	562	0015	1145	5.92	4.62	5.31	48.08	0.00
4	3	792	556	699	1415	2230	5.91	5.21	5.53	59.99	0.00
4	4	811	508	716	0645	1930	5.21	4.43	4.82	61.33	0.00
4	5	840	546	718	1745	1945	4.42	4.00	4.20	61.56	0.00
4	6	773	573	697	0715	1945	4.71	4.10	4.33	59.67	0.00
4	7	791	545	696	1015	2330	5.54	4.61	4.83	59.66	0.00
4	8	794	532	700	1345	0030	5.69	5.47	5.60	60.04	0.00
4	9	889	581	795	1815	2215	5.65	5.16	5.38	68.26	0.00
4	10	1030	644	834	1730	2045	5.42	5.00	5.24	73.58	0.00
4	11	976	743	877	1645	2115	5.86	5.40	5.57	75.26	0.00
4	12	1060	762	892	1815	2030	5.95	5.71	5.84	76.72	0.00
4	13	1130	775	948	1800	1500	5.79	5.48	5.63	81.45	0.00
4	14	1140	893	1040	2230	1115	5.58	5.18	5.44	89.74	0.00
4	15	1130	940	1060	0045	2115	5.17	4.58	4.91	91.36	0.00
4	16	1050	604	896	0215	2145	4.57	4.22	4.33	76.82	0.00
4	17	944	629	837	0600	1830	4.28	4.10	4.17	71.82	0.00
4	18	927	590	803	0615	2130	4.96	4.28	4.53	68.89	0.00
4	19	959	597	799	0945	1930	5.45	4.95	5.15	68.56	0.00
4	20	1100	673	840	0815	2300	6.00	5.21	5.48	72.05	0.00
4	21	849	661	752	2330	0115	6.25	6.00	6.12	64.56	0.00
4	22	1130	826	995	1745	0100	6.15	5.41	5.75	85.51	0.00
4	23	1130	771	1010	1115	2215	5.41	4.88	5.12	86.64	0.00
4	24	1040	700	905	0200	2000	4.88	4.70	4.81	77.65	0.00

Table 5c.--Daily discharge data for Vermilion River near Lafayette, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
4	25	963	545	782	0545	2030	5.58	4.86	5.07	67.11	0.00
4	26	827	553	698	1730	2015	6.11	5.59	5.79	59.72	0.00
4	27	911	669	756	1700	1945	6.15	5.89	6.02	64.90	0.00
4	28	994	637	883	1700	2000	5.94	5.69	5.79	75.80	0.00
4	29	891	687	800	0415	1130	6.23	5.78	6.02	68.65	0.00
4	30	1070	763	934	2315	1930	6.06	5.56	5.81	80.32	0.00
5	1	1080	657	915	0500	1900	5.55	5.31	5.46	78.46	0.00
5	2	938	639	787	0615	1830	5.78	5.40	5.61	67.47	0.00
5	3	1030	343	808	2400	1745	5.80	5.61	5.73	66.14	0.00
5	4	1070	720	961	0500	2115	5.60	5.14	5.33	82.48	0.00
5	5	1070	715	893	0815	1745	5.77	5.21	5.45	76.64	0.00
5	6	970	668	834	1130	2015	6.11	5.56	5.77	71.53	0.00
5	7	890	607	791	0630	2000	6.19	5.83	6.00	67.85	0.00
5	8	1250	738	1000	2345	0230	6.26	5.44	5.89	86.06	0.00
5	9	1220	777	1060	0200	1100	5.43	4.94	5.13	91.26	0.00
5	10	1090	766	955	1830	2130	5.20	4.89	5.05	82.02	0.00
5	11	1020	699	894	0315	0845	5.26	5.00	5.14	76.82	0.00
5	12	1070	825	977	0630	1145	5.26	5.10	5.18	83.94	0.00
5	13	1090	855	995	0830	1300	5.15	4.99	5.08	85.51	0.00
5	14	1040	649	852	0500	1500	5.12	4.84	4.94	73.09	0.00
5	15	1000	681	884	0530	1415	4.83	4.55	4.68	75.95	0.00
5	16	971	538	837	0530	1330	4.92	4.52	4.73	71.84	0.00
5	17	967	344	802	1115	2000	5.41	4.73	4.96	68.79	0.00
5	18	967	340	770	1115	0845	5.67	5.14	5.38	66.09	0.00
5	19	1030	680	851	1230	2115	6.02	5.33	5.59	72.95	0.00
5	20	802	12	497	0415	1615	8.70	6.00	7.28	42.55	0.00
5	21	1660	721	1250	2015	0045	8.67	7.68	8.15	108.02	0.00
5	22	1740	1250	1510	0100	2200	8.61	7.66	8.08	129.70	0.00
5	23	2090	1280	1720	1730	0015	8.62	8.12	8.37	148.34	0.00
5	24	2070	1360	1870	0315	1015	8.12	7.63	7.83	161.08	0.00
5	25	1870	1480	1740	0245	1345	7.66	7.45	7.59	149.83	0.00
5	26	1760	1560	1680	0030	2400	7.44	6.95	7.18	144.41	0.00
5	27	1740	1440	1630	0915	2315	7.03	6.89	6.95	140.80	0.00
5	28	1730	1070	1530	0600	1130	6.97	6.60	6.80	131.54	0.00
5	29	1610	939	1390	0030	1215	6.59	5.93	6.25	119.85	0.00
5	30	1500	792	1230	0200	1415	5.92	5.57	5.68	105.47	0.00
5	31	1320	844	1140	0145	0900	5.78	5.49	5.63	98.01	0.00
6	1	1220	876	1100	0530	0915	5.77	5.52	5.66	94.88	0.00
6	2	1290	1060	1180	1315	2215	5.68	5.40	5.54	101.16	0.00
6	3	1300	1040	1160	1330	2015	5.58	5.28	5.43	99.90	0.00
6	4	1200	812	1070	0915	2145	5.59	5.20	5.40	91.63	0.00
6	5	1110	825	1030	1500	2130	5.71	5.41	5.55	88.34	0.00
6	6	1070	777	971	1330	1945	6.02	5.60	5.74	83.34	0.00
6	7	1200	953	1030	1700	2030	6.03	5.80	5.92	89.02	0.00
6	8	1190	901	1080	1545	0830	6.01	5.86	5.92	92.62	0.00
6	9	1280	1150	1200	0500	2100	6.08	5.92	6.00	103.47	0.00
6	10	1380	1110	1270	0545	1415	6.16	6.00	6.08	109.01	0.00
6	11	1430	908	1280	0430	1300	6.18	6.04	6.12	110.49	0.00
6	12	1460	950	1320	0445	1515	6.12	5.97	6.05	113.18	0.00
6	13	1450	870	1240	0615	0900	6.06	5.88	5.96	106.96	0.00
6	14	1420	892	1250	0200	0845	5.96	5.77	5.86	107.48	0.00
6	15	1400	1000	1260	0530	1000	5.93	5.74	5.85	108.59	0.00
6	16	1420	1050	1320	1015	1515	6.52	5.74	6.08	113.49	0.00
6	17	1500	1200	1410	1200	0300	6.40	6.24	6.32	121.40	0.00
6	18	1480	1180	1410	1000	1030	6.43	6.30	6.34	121.56	0.00
6	19	1500	1150	1400	1615	1345	6.42	6.22	6.30	120.30	0.00
6	20	1540	1130	1430	1700	1100	6.28	6.00	6.20	123.26	0.00
6	21	1500	1260	1400	0430	2015	6.20	5.95	6.04	120.32	0.00
6	22	1420	898	1290	0445	1300	5.97	5.73	5.84	110.59	0.00

Table 5c.--Daily discharge data for Vermilion River near Lafayette, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
6	23	1330	1220	1260	0945	1430	5.91	5.54	5.71	108.20	0.00
6	24	1260	1150	1210	0145	1245	5.53	5.31	5.37	103.93	0.00
6	25	1220	856	1110	0145	1430	5.31	5.00	5.18	95.03	0.00
6	26	1190	884	1060	0615	1215	5.16	5.00	5.07	91.36	0.00
6	27	1260	-132	1070	0545	1430	6.15	5.00	5.41	92.00	0.18
6	28	1370	1120	1280	0945	1945	5.85	5.61	5.70	110.47	0.00
6	29	1400	1020	1260	0930	2015	5.94	5.44	5.68	107.84	0.00
6	30	1800	1110	1400	2330	1030	7.00	5.73	6.24	121.15	0.00
7	1	1910	1650	1790	0915	0315	7.02	6.71	6.84	154.37	0.00
7	2	1770	1390	1650	0015	1300	6.82	6.46	6.61	142.14	0.00
7	3	1630	1160	1500	0045	2045	6.65	6.21	6.40	129.01	0.00
7	4	1510	1290	1430	0045	1945	6.20	5.85	5.99	123.18	0.00
7	5	1410	1070	1300	0030	2100	5.92	5.68	5.77	111.46	0.00
7	6	1350	897	1210	0215	1415	5.70	5.59	5.63	104.30	0.00
7	7	1320	1180	1270	0045	1200	5.61	5.46	5.52	108.85	0.00
7	8	1280	1080	1220	0230	1345	5.54	5.32	5.44	105.04	0.00
7	9	1330	1020	1180	2400	0900	5.77	5.48	5.61	101.45	0.00
7	10	1410	927	1260	0500	1100	6.23	5.78	5.98	108.63	0.00
7	11	1360	975	1280	0215	1030	6.16	5.87	5.96	110.43	0.00
7	12	1350	843	1190	0130	2200	5.90	5.58	5.70	102.07	0.00
7	13	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
7	14	1200	83	960	1000	1415	6.56	5.43	5.88	82.46	0.00
7	15	1150	981	1060	1015	0045	5.98	5.53	5.66	91.12	0.00
7	16	1100	696	951	0945	1430	5.58	5.00	5.30	81.66	0.00
7	17	1010	590	836	0545	1115	5.18	4.94	5.04	71.74	0.00
7	18	1020	230	821	2300	1530	6.06	4.80	5.23	70.46	0.00
7	19	1070	492	832	1030	2045	5.57	5.35	5.40	71.19	0.00
7	20	592	394	515	0030	2300	5.50	5.30	5.41	43.96	0.00
7	21	629	527	577	2300	1545	5.44	5.25	5.36	49.38	0.00
7	22	714	507	608	2330	0915	5.33	5.00	5.22	51.14	0.00
7	23	938	388	688	2345	1100	5.30	4.96	5.11	59.07	0.00
7	24	1020	564	871	2330	1100	5.51	5.00	5.28	74.76	0.00
7	25	1100	631	894	0200	1245	5.69	5.33	5.51	76.69	0.00
7	26	1060	594	865	0515	1245	5.71	5.43	5.57	74.19	0.00
7	27	1020	196	834	0400	1830	6.41	5.40	5.71	71.63	0.00
7	28	1240	-104	1000	1015	1800	7.43	6.00	6.37	86.20	0.11
7	29	1230	834	1120	1100	2215	6.79	6.20	6.40	75.98	0.00
7	30	1160	764	997	0415	2145	6.51	6.00	6.14	85.73	0.00
7	31	1120	506	1005	1500	1315	6.01	5.77	5.89	84.07	0.00
8	1	1060	604	933	0015	2200	5.97	5.81	5.87	80.13	0.00
8	2	1030	740	890	0045	1015	5.91	5.78	5.84	76.42	0.00
8	3	1040	572	873	0100	1145	5.99	5.76	5.88	74.88	0.00
8	4	1010	762	915	0145	1845	6.09	5.85	5.93	78.67	0.00
8	5	1060	844	962	0400	1230	6.08	5.86	5.97	82.59	0.00
8	6	1080	641	906	0445	1530	6.08	5.80	5.95	77.73	0.00
8	7	1170	873	1040	1745	1330	6.22	5.99	6.10	89.81	0.00
8	8	1280	758	1060	0345	1545	6.60	5.96	6.22	90.95	0.00
8	9	1160	868	1020	0615	2045	6.39	5.98	6.12	87.51	0.00
8	10	1100	737	966	0545	1315	5.97	5.65	5.77	82.97	0.00
8	11	1010	772	861	0030	1330	5.73	5.41	5.57	73.92	0.00
8	12	960	754	853	0715	1545	5.72	5.46	5.56	73.17	0.00
8	13	865	459	693	1830	0930	5.50	5.22	5.34	59.39	0.00
8	14	839	366	652	0145	1200	5.51	5.20	5.32	55.88	0.00
8	15	867	441	710	2315	1200	5.37	5.28	5.33	60.93	0.00
8	16	925	542	773	2145	1045	5.28	5.00	5.20	66.30	0.00
8	17	955	556	800	2215	1445	5.18	4.96	5.10	68.60	0.00
8	18	910	705	845	1030	0245	4.99	4.82	4.92	72.52	0.00
8	19	899	693	802	0100	0430	4.94	4.77	4.86	68.82	0.00
8	20	907	507	721	2215	1230	5.36	4.80	5.08	61.87	0.00

Table 5c.--Daily discharge data for Vermilion River near Lafayette, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
8	21	897	462	710	0115	1100	5.28	4.97	5.14	60.84	0.00
8	22	868	418	653	0600	1130	5.27	4.99	5.14	55.92	0.00
8	23	1360	515	865	2345	1145	6.09	5.00	5.32	71.99	0.00
8	24	1230	556	913	0600	1515	6.07	5.77	5.85	78.37	0.00
8	25	1080	759	914	0945	0245	5.77	5.51	5.61	78.40	0.00
8	26	977	634	826	0600	0300	5.63	5.35	5.47	70.92	0.00
8	27	943	390	689	2115	1630	6.00	5.23	5.51	59.09	0.00
8	28	976	521	785	2130	1415	6.01	5.70	5.79	67.36	0.00
8	29	929	458	740	0015	1400	5.74	5.48	5.62	63.44	0.00
8	30	940	369	637	0015	1445	6.66	5.44	5.72	54.53	0.00
8	31	965	437	742	1900	1115	6.70	5.84	6.41	63.61	0.00
9	1	882	596	715	0030	1300	5.83	5.20	5.54	61.26	0.00
9	2	751	473	613	0145	1345	5.19	4.70	4.98	52.48	0.00
9	3	929	387	605	2330	1245	5.30	4.46	4.77	51.86	0.00
9	4	898	344	702	0015	1215	5.18	4.96	5.09	60.08	0.00
9	5	804	281	612	0530	1415	5.07	4.69	4.83	52.31	0.00
9	6	676	251	486	0630	1430	4.90	4.34	4.63	41.52	0.00
9	7	593	199	435	0645	1315	5.12	4.56	4.86	37.03	0.00
9	8	600	326	446	0445	1315	5.37	4.78	5.08	37.98	0.00
9	9	618	403	511	0745	1245	5.32	4.94	5.10	43.63	0.00
9	10	572	113	432	0545	1130	5.14	4.85	5.00	36.82	0.00
9	11	548	253	419	0545	1315	4.95	4.58	4.74	35.62	0.00
9	12	525	230	407	0515	1215	4.87	4.32	4.60	34.64	0.00
9	13	466	222	371	2215	1330	4.53	3.98	1.31	31.55	0.00
9	14	457	184	346	1900	1100	4.31	3.71	4.04	29.45	0.00
9	15	432	250	357	2330	0530	4.27	3.69	4.02	30.36	0.00
9	16	424	294	364	0015	1700	3.74	3.38	3.59	30.98	0.00
9	17	429	153	292	2345	1130	4.43	3.42	4.10	27.74	0.00
9	18	435	120	284	0030	1100	4.94	4.00	4.61	24.08	0.00
9	19	532	169	371	2345	1130	4.84	4.21	4.62	30.14	0.00
9	20	579	115	388	0300	1245	5.31	4.44	4.94	33.13	0.00
9	21	584	-102	334	0400	1545	6.35	5.01	5.68	28.80	0.33
9	22	573	-221	318	0630	1445	7.06	5.77	6.34	28.31	1.31
9	23	815	343	670	1345	1930	7.06	6.70	6.89	57.45	0.00
9	24	1220	622	1010	2200	1230	7.10	6.91	7.00	86.82	0.00
9	25	1300	938	1170	0400	0630	7.08	6.85	6.95	100.68	0.00
9	26	1210	632	1010	0045	0645	6.85	6.00	6.54	86.92	0.00
9	27	977	485	827	0045	1215	6.14	5.14	5.72	70.89	0.00
9	28	752	423	629	0015	1300	5.25	4.38	4.92	53.77	0.00
9	29	663	525	584	0015	2300	4.36	3.66	4.10	49.97	0.00
9	30	526	414	482	0145	1445	3.65	3.20	3.48	41.07	0.00

Table 6a.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1982 water year

[M, month of the year; D, day of the month; MXQ, maximum instantaneous daily discharge; MIQ, minimum instantaneous daily discharge; MNQ, mean daily discharge; TMAX, time of maximum instantaneous daily discharge; TMIN, time of minimum instantaneous daily discharge; MXS, maximum instantaneous daily stage; MIS, minimum instantaneous daily stage; MNS, mean daily stage; VDS, volume of flow downstream; VUS, volume of flow upstream; 99999, missing data]

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours		Feet			Million gallons per day	
7	23	362	217	319	1330	2400	4.98	4.45	4.91	12.69	0.00
7	24	339	137	259	1000	2215	4.88	4.74	4.80	21.76	0.00
7	25	545	134	227	1930	1145	4.84	4.70	4.74	20.35	0.00
7	26	766	329	475	2330	0030	5.18	4.85	4.99	40.81	0.00
7	27	834	575	707	1730	0045	5.34	5.18	5.29	60.64	0.00
7	28	817	491	640	0100	1815	5.34	5.22	5.29	54.80	0.00
7	29	598	303	453	0015	2315	5.22	4.98	5.10	38.54	0.00
7	30	1220	148	328	0945	1615	4.99	4.89	4.92	25.33	0.00
7	31	233	28	145	0015	1915	4.89	4.78	4.82	11.96	0.00
8	1	215	27	122	2245	1130	4.86	4.74	4.78	10.02	0.00
8	2	462	158	309	2400	0030	5.12	4.86	4.99	26.35	0.00
8	3	605	386	483	2400	0130	5.25	5.13	5.19	41.34	0.00
8	4	613	450	550	0730	2400	5.30	5.23	5.27	47.03	0.00
8	5	546	224	372	0130	2400	5.23	4.96	5.10	31.54	0.00
8	6	348	112	194	2400	2000	4.95	4.77	4.85	16.31	0.00
8	7	1580	336	933	2245	0030	5.92	4.89	5.41	80.65	0.00
8	8	2210	1550	1890	2100	0015	6.45	5.93	6.26	162.74	0.00
8	9	2200	1650	1970	0100	1800	6.51	6.45	6.49	169.85	0.00
8	10	2110	1390	1720	0045	1530	6.47	6.26	6.37	147.91	0.00
8	11	1710	1410	1570	1745	1815	6.28	6.23	6.24	135.14	0.00
8	12	1700	1170	1440	0215	2245	6.25	6.11	6.19	123.62	0.00
8	13	1360	847	1090	0100	2230	6.11	5.84	5.97	93.82	0.00
8	14	1190	682	872	0245	2245	5.84	5.66	5.75	74.70	0.00
8	15	793	448	665	0030	1715	5.67	5.53	5.62	56.93	0.00
8	16	1310	643	972	2400	0015	6.03	5.67	5.83	83.84	0.00
8	17	1660	1160	1420	2145	0115	6.23	6.04	6.15	121.93	0.00
8	18	1690	1190	1450	0345	1800	6.24	6.15	6.21	125.12	0.00
8	19	1440	741	1140	0045	1845	6.15	5.84	6.01	97.92	0.00
8	20	957	414	670	0230	2400	5.84	5.43	5.64	57.20	0.00
8	21	518	125	277	0045	2400	5.42	5.07	5.24	23.34	0.00
8	22	156	-29	50	0015	1515	5.07	4.81	4.93	4.14	0.18
8	23	27	-184	-45	0730	2200	4.81	4.65	4.71	0.02	3.55
8	24	-51	-183	-128	1015	0015	4.65	4.53	4.58	0.00	10.63
8	25	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	26	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	27	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	28	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	29	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	30	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	31	0	-231	-120	1945	1230	4.23	3.94	4.08	0.00	9.81
9	1	42	-84	-9	0530	1700	4.23	4.19	4.20	0.24	0.76
9	2	-19	-145	-60	1015	1945	4.23	4.08	4.15	0.00	4.68
9	3	-37	-141	-92	1530	2045	4.15	3.93	4.06	0.00	7.36
9	4	-18	-131	-42	0745	1230	4.12	3.98	4.05	0.00	3.03
9	5	-19	-138	-73	0315	1545	4.11	3.99	4.06	0.00	5.91
9	6	-76	-143	-105	0830	2230	4.17	4.05	4.09	0.00	8.46
9	7	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	8	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	9	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	10	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	11	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	12	4820	1890	3390	2315	0015	8.16	6.69	7.54	293.69	0.00
9	13	5030	3940	4630	1400	0015	8.39	8.17	8.32	399.61	0.00

Table 6a.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1982 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
9	14	4950	3320	3920	0230	2330	8.31	7.87	8.11	337.65	0.00
9	15	3480	2070	2820	0200	1930	7.86	7.36	7.61	242.43	0.00
9	16	2580	1560	1990	0245	2330	7.35	6.84	7.10	171.51	0.00
9	17	1660	988	1320	0030	2400	6.84	6.37	6.60	112.92	0.00
9	18	1150	492	785	0145	1430	6.37	5.95	6.16	67.29	0.00
9	19	703	191	480	0015	2400	5.95	5.61	5.77	40.81	0.00
9	20	487	188	320	2230	0345	5.80	5.56	5.73	27.35	0.00
9[a]	21	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999

[a] Data are missing from 9-21 to 9-30.

Table 6b.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1983 water year

[M, month of the year; D, day of the month; MXQ, maximum instantaneous daily discharge; MIQ, minimum instantaneous daily discharge; MNQ, mean daily discharge; TMAX, time of maximum instantaneous daily discharge; TMIN, time of minimum instantaneous daily discharge; MXS, maximum instantaneous daily stage; MIS, minimum instantaneous daily stage; MNS, mean daily stage; VDS, volume of flow downstream; VUS, volume of flow upstream; 99999, missing data]

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
10[b]	1	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	19	-97	-171	-138	1300	2300	4.51	4.49	4.50	0.00	5.46
10	20	-22	-147	-69	2215	0015	4.51	4.32	4.43	0.00	5.64
10	21	-21	-126	-56	2345	2300	4.32	4.20	4.27	0.00	4.19
10	22	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	23	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	24	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	25	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	26	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	27	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	28	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	29	-112	-168	-132	1130	0015	4.22	4.16	4.17	0.00	10.93
10	30	-100	-195	-141	1030	2145	4.19	4.13	4.15	0.00	11.56
10	31	-112	-221	-163	0430	2000	4.22	4.16	4.19	0.00	13.55
11	1	-126	-294	-171	0145	2230	4.28	4.21	4.23	0.00	14.53
11	2	-19	-255	-134	2030	1530	4.27	4.04	4.19	0.00	11.11
11	3	0	-233	-93	0930	0445	4.16	3.88	4.03	0.00	7.59
11	4	-45	-818	-109	0600	1200	3.92	3.73	3.83	0.00	9.03
11	5	-101	-245	-183	2315	0245	3.99	3.88	3.95	0.00	15.20
11	6	-128	-263	-182	0015	2045	4.09	3.97	4.03	0.00	15.32
11	7	-56	-259	-136	0615	1830	4.08	4.01	4.04	0.00	11.32
11	8	-46	-211	-125	0245	2030	4.02	3.96	3.98	0.00	10.37
11	9	-91	-416	-166	0230	1715	4.06	3.94	3.99	0.00	13.91
11	10	-73	-264	-140	0630	2030	4.05	3.97	4.01	0.00	11.69
11	11	-101	-386	-228	0130	1730	4.15	3.97	4.05	0.00	19.22
11	12	0	-231	-90	1345	0515	4.15	3.87	4.06	0.00	7.29
11	13	-18	-278	-104	0745	1800	3.91	3.67	3.80	0.00	8.60
11	14	-36	-229	-151	2345	1715	4.01	3.89	3.94	0.00	12.48
11	15	-18	-261	-104	0430	2045	3.92	3.77	3.82	0.00	8.64

[b] Data are missing 10-1 to 10-18.

Table 6b.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours			Feet		Million gallons per day	
11	16	-90	-219	-146	0300	2015	4.00	3.85	3.90	0.00	12.18
11	17	-27	-292	-129	0615	1530	4.04	3.89	3.98	0.00	10.58
11	18	-92	-156	-122	1700	1245	4.01	3.98	4.01	0.00	7.14
11	19	-77	-292	-183	2400	1830	4.11	4.00	4.02	0.00	11.36
11	20	-77	-303	-165	1000	0730	4.17	4.05	4.09	0.00	13.76
11	21	-58	-225	-137	1015	2030	4.14	4.07	4.09	0.00	11.31
11	22	-98	-339	-166	0045	1600	4.16	4.07	4.11	0.00	13.94
11	23	-102	-318	-156	2330	2000	4.18	4.12	4.15	0.00	12.82
11	24	63	-121	-9	0800	0030	4.16	3.65	3.83	1.15	1.79
11	25	-35	-226	-147	0045	1445	3.93	3.64	3.80	0.00	12.03
11	26	-99	-299	-195	2400	2030	4.13	3.93	4.04	0.00	16.40
11	27	93	-357	-121	2400	1115	4.67	4.08	4.31	0.68	10.77
11	28	923	106	525	2400	0015	5.51	4.68	5.11	45.20	0.00
11	29	1090	799	957	0900	0100	5.72	5.51	5.66	82.20	0.00
11	30	1220	771	945	2315	1115	5.93	5.69	5.75	81.33	0.00
12	1	2050	1100	1580	2300	0030	6.57	5.93	6.26	136.09	0.00
12	2	2180	1730	1940	0200	1100	6.70	6.57	6.66	164.78	0.00
12	3	1920	1340	1580	2330	0645	6.89	6.61	6.68	136.21	0.00
12	4	3980	1840	2860	2200	0145	7.92	6.90	7.40	247.67	0.00
12	5	4600	3560	4040	2315	0100	8.37	7.93	8.19	349.00	0.00
12	6	4860	3870	4280	2000	1600	8.40	8.30	8.37	368.94	0.00
12	7	4290	3030	3690	0415	2345	8.31	7.85	8.10	317.71	0.00
12	8	3350	2260	2750	0100	2300	7.84	7.25	7.55	236.54	0.00
12	9	2370	1610	1980	0145	2245	7.24	6.68	6.95	170.38	0.00
12	10	1760	1050	1380	0100	2145	6.67	6.22	6.43	118.41	0.00
12	11	1120	628	857	0130	2145	6.21	5.86	6.03	73.44	0.00
12	12	726	423	566	0500	2315	5.86	5.49	5.67	48.33	0.00
12	13	471	169	307	0315	2215	5.49	5.25	5.35	25.96	0.00
12	14	202	16	106	0015	2000	5.25	5.14	5.18	8.56	0.00
12	15	853	0	390	2330	0030	5.81	5.17	5.50	33.56	0.00
12	16	1330	847	1040	2230	0145	6.09	5.82	5.98	89.71	0.00
12	17	1380	907	1090	0300	2315	6.10	5.99	6.06	93.46	0.00
12	18	1130	605	824	1100	2230	5.99	5.76	5.87	70.49	0.00
12	19	662	422	514	0100	2330	5.76	5.49	5.63	44.17	0.00
12	20	467	185	362	0445	2315	5.48	5.24	5.35	30.73	0.00
12	21	260	32	151	1015	1445	5.24	5.07	5.15	12.47	0.00
12	22	125	-75	29	0015	2145	5.07	4.97	5.01	2.65	0.46
12	23	0	-148	-47	0115	2115	4.97	4.91	4.93	0.00	3.63
12	24	-29	-562	-237	0200	2115	5.10	4.92	4.97	0.00	20.04
12	25	-79	-485	-223	1230	1945	5.16	5.09	5.11	0.00	18.70
12	26	3260	-672	812	2245	0830	8.17	5.14	6.43	80.66	9.24
12	27	10400	3110	5940	2400	0030	10.30	8.20	9.40	516.00	0.00
12	28	11400	8380	9870	1000	1530	10.91	10.30	10.66	852.09	0.00
12	29	12000	9610	10800	2245	0445	11.04	10.91	10.99	932.70	0.00
12	30	12000	8750	10400	0815	2400	11.04	10.91	10.98	896.21	0.00
12	31	10400	8110	9080	0345	1545	11.05	10.82	10.90	783.85	0.00
1	1	10900	8340	9680	2330	0015	11.33	11.04	11.18	836.80	0.00
1	2	12100	9600	10500	1045	2045	11.34	11.23	11.30	910.88	0.00
1	3	10800	7620	9120	0215	2315	11.22	10.81	11.04	786.17	0.00
1	4	8740	5750	7160	0430	1745	10.81	10.20	10.52	616.75	0.00
1	5	6630	3820	5090	0630	2400	10.20	9.46	9.83	438.09	0.00
1	6	4550	2640	3740	0345	2315	9.46	8.70	9.05	296.44	0.00
1	7	3080	1890	2460	0130	1800	8.69	8.03	8.35	211.89	0.00
1	8	2240	1370	1760	0030	2330	8.02	7.52	7.75	151.22	0.00
1	9	1650	961	1240	0015	1600	7.52	7.15	7.32	106.78	0.00
1	10	1140	672	899	0145	1515	7.14	6.84	6.99	77.08	0.00
1	11	951	490	683	0130	2015	6.84	6.59	6.71	58.41	0.00
1	12	681	369	540	0500	1245	6.59	6.32	6.44	44.27	0.00
1	13	566	136	299	0215	2400	6.31	6.15	6.23	25.15	0.00

Table 6b.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
1	14	224	0	112	0415	1900	6.15	5.99	6.07	9.14	0.00
1	15	225	0	104	1800	0030	5.99	5.76	5.88	8.53	0.00
1	16	200	-98	6	0145	1230	5.76	5.65	5.69	3.16	2.75
1	17	19	-94	-43	0645	1330	5.65	5.53	5.58	0.04	3.54
1	18	18	-93	-48	1645	0215	5.53	5.34	5.44	0.02	3.69
1	19	18	-102	-48	2345	0645	5.43	5.28	5.31	0.03	3.89
1	20	2330	18	931	2330	0030	7.22	5.44	6.30	81.03	0.00
1	21	3810	2110	3050	1845	0130	8.22	7.24	7.84	263.40	0.00
1	22	4090	2950	3460	0815	2245	8.29	8.19	8.25	297.97	0.00
1	23	3290	2050	2710	0145	2345	8.19	7.71	7.97	233.04	0.00
1	24	2390	1290	1850	0130	2215	7.70	7.15	7.42	159.36	0.00
1	25	1750	1070	1350	0300	2245	7.18	6.86	7.01	115.93	0.00
1	26	1370	897	1140	0015	0245	6.86	6.54	6.70	97.82	0.00
1	27	1190	738	928	0030	1630	6.54	6.23	6.38	76.47	0.00
1	28	929	-714	634	0445	0015	6.22	5.95	6.08	54.85	0.64
1	29	533	-125	283	0015	1000	5.95	5.79	5.86	23.96	0.11
1	30	236	76	142	1000	2315	5.79	5.57	5.68	11.86	0.00
1	31	94	-1260	4	0030	0630	5.65	5.47	5.52	2.79	2.87
2	1	1200	-176	485	2400	0030	6.37	5.67	6.03	43.45	1.22
2	2	1680	1080	1360	1745	0215	6.80	6.38	6.64	117.57	0.00
2	3	1560	927	1280	0300	2245	6.79	6.60	6.72	110.03	0.00
2	4	1230	680	876	0100	2200	6.60	6.26	6.43	75.08	0.00
2	5	1010	454	671	2345	1200	6.85	6.13	6.34	57.58	0.00
2	6	3110	1070	2080	2400	0030	8.11	6.87	7.55	179.99	0.00
2	7	3440	2430	2960	0300	0330	8.32	8.12	8.26	255.07	0.00
2	8	3160	1950	2530	0445	2145	8.30	7.93	8.14	217.32	0.00
2	9	2370	1370	1840	0115	1300	7.92	7.58	7.70	158.00	0.00
2	10	2850	1650	2180	2200	0330	7.99	7.64	7.82	188.48	0.00
2	11	2800	2130	2430	0900	2115	8.01	7.86	7.97	209.37	0.00
2	12	2490	1480	1930	0030	2400	7.86	7.37	7.63	165.52	0.00
2	13	1710	1010	1360	0145	2400	7.36	6.83	7.10	116.53	0.00
2	14	1220	630	920	0030	2315	6.83	6.38	6.60	78.89	0.00
2	15	862	384	603	0200	1545	6.38	6.03	6.20	51.54	0.00
2	16	567	250	391	0015	1230	6.03	5.72	5.88	33.16	0.00
2	17	375	37	184	0100	2330	5.72	5.50	5.61	15.33	0.00
2	18	92	-53	13	0015	1430	5.50	5.33	5.41	1.65	0.71
2	19	17	-133	-52	0600	1945	5.33	5.23	5.26	0.01	4.36
2	20	-50	-143	-98	0800	2230	5.23	5.12	5.17	0.00	7.81
2	21	-95	-276	-150	1830	0915	5.16	5.10	5.12	0.00	12.45
2	22	-47	-240	-124	2245	0200	5.13	5.05	5.10	0.00	10.24
2	23	-30	-120	-63	1000	1230	5.05	4.90	4.96	0.00	5.06
2	24	-117	-160	-139	0830	1400	4.92	4.88	4.89	0.00	11.55
2	25	-40	-159	-89	2300	0015	4.88	4.67	4.78	0.00	7.13
2	26	0	-187	-59	1415	2400	4.66	4.51	4.56	0.00	4.71
2	27	0	-240	-125	2230	0230	4.73	4.55	4.63	0.00	10.24
2	28	0	-42	-3	0015	0245	4.79	4.74	4.76	0.00	0.03
3	1	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
3	2	105	-89	13	0945	1500	5.02	4.90	4.96	1.62	0.71
3	3	15	-57	-22	0030	1015	4.90	4.78	4.82	0.03	1.64
3	4	-41	-386	-181	0130	1915	4.90	4.77	4.80	0.00	15.19
3	5	-30	-248	-74	2145	0015	4.96	4.87	4.90	0.00	5.87
3	6	-30	-187	-87	0015	1630	5.07	4.96	5.01	0.00	7.02
3	7	30	-117	-45	0915	2345	5.05	4.90	4.96	0.09	3.56
3	8	0	-154	-86	0945	2300	4.90	4.78	4.82	0.00	7.03
3	9	0	-140	-67	1830	0015	4.80	4.66	4.73	0.00	5.24
3	10	25	-100	-53	1015	1215	4.65	4.54	4.59	0.00	2.68
3	11	0	-169	-82	0030	2345	4.47	4.34	4.39	0.00	6.83
3	12	-93	-228	-153	1145	0345	4.41	4.34	4.38	0.00	12.22

Table 6b.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours			Feet		Million gallons per day	
3	13	0	-263	-128	0545	2130	4.42	4.33	4.36	0.00	10.76
3	14	-22	-231	-131	0845	2330	4.36	4.28	4.31	0.00	10.79
3	15	-97	-258	-154	0830	1915	4.31	4.24	4.27	0.00	12.65
3	16	-87	-189	-118	0400	2345	4.28	4.12	4.20	0.00	9.74
3	17	0	-311	-86	1515	2300	4.14	3.88	4.02	0.00	7.09
3	18	-27	-311	-202	0715	0045	4.14	3.95	4.02	0.00	16.96
3	19	-39	-347	-188	0630	2200	4.19	4.07	4.11	0.00	15.87
3	20	0	-300	-104	1100	0015	4.20	3.90	4.07	0.00	8.44
3	21	0	-293	-118	1230	1815	3.90	3.68	3.78	0.00	9.85
3	22	-107	-326	-201	1130	1930	3.94	3.78	3.83	0.00	16.87
3	23	361	-268	-81	2400	1500	4.78	3.93	4.16	3.20	9.71
3	24	1060	268	728	2245	0045	5.73	4.79	5.32	62.70	0.00
3	25	1420	746	1030	1045	2330	5.91	5.74	5.85	88.90	0.00
3	26	1020	494	723	0045	2230	5.86	5.70	5.79	61.85	0.00
3	27	687	343	520	0115	2330	5.70	5.44	5.58	44.31	0.00
3	28	485	172	347	1430	2330	5.43	5.08	5.26	29.47	0.00
3	29	233	-28	126	0115	2315	5.07	4.80	4.91	10.34	0.04
3	30	102	-56	3	2215	0315	4.92	4.78	4.81	1.43	0.99
3	31	362	59	207	1715	0130	5.13	4.92	5.04	17.48	0.00
4	1	209	-169	95	0315	2215	5.29	5.13	5.17	8.76	1.10
4	2	210	-34	112	1730	0015	5.30	5.11	5.20	9.35	0.06
4	3	182	29	120	1230	2345	5.10	4.89	4.99	9.82	0.00
4	4	73	-111	-2	0015	2400	4.89	4.76	4.80	1.01	1.27
4[c]	5	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
4	19	109	-522	14	0045	2115	4.74	4.62	4.66	2.87	1.82
4	20	26	-277	-54	1500	0400	4.70	4.60	4.64	0.14	4.49
4	21	0	-243	-84	0015	1930	4.62	4.56	4.58	0.00	6.92
4	22	83	-317	-122	2015	0600	4.78	4.62	4.69	0.69	10.92
4	23	230	0	100	2215	0045	4.88	4.79	4.85	8.31	0.00
4	24	211	71	126	0945	0330	4.86	4.69	4.78	10.35	0.00
4	25	146	0	55	0030	1230	4.69	4.53	4.58	4.37	0.00
4	26	25	-203	-59	0030	2315	4.53	4.43	4.47	0.11	5.04
4	27	-36	-408	-159	0330	2145	4.46	4.36	4.40	0.00	13.46
4	28	-35	-318	-154	1045	0015	4.45	4.36	4.40	0.00	12.84
4	29	-96	-276	-161	2245	1930	4.48	4.40	4.44	0.00	13.22
4	30	-101	-429	-199	2015	1700	4.57	4.48	4.52	0.00	16.82
5	1	-50	-597	-316	0400	1730	6.55	4.55	4.61	0.00	26.97
5	2	0	-518	-211	1030	2230	4.71	4.60	4.65	0.00	17.83
5	3	49	-415	-76	1700	0030	4.71	4.39	4.58	0.08	6.16
5	4	0	-302	-92	0015	2230	4.39	4.07	4.19	0.00	7.60
5	5	0	-397	-110	1045	2115	4.17	4.11	4.14	0.00	19.50
5	6	-176	-424	-286	1100	2130	4.30	4.19	4.22	0.00	24.20
5	7	-86	-308	-208	2345	0015	4.34	4.25	4.30	0.00	17.29
5	8	0	-157	-75	1345	2215	4.25	3.98	4.10	0.00	6.12
5	9	-18	-342	-184	0145	2030	4.08	3.88	3.94	0.00	15.48
5	10	-21	-269	-147	2230	0500	4.25	4.07	4.16	0.00	12.02
5	11	-22	-324	-145	0415	2115	4.35	4.24	4.27	0.00	12.03
5	12	11	-261	-122	0800	0015	4.39	4.31	4.34	0.03	10.31
5	13	-56	-375	-206	1030	1830	4.39	4.34	4.36	0.00	17.41
5	14	-144	-403	-304	1400	2200	4.51	4.40	4.46	0.00	25.84
5	15	80	-370	-189	2145	0115	4.70	4.51	4.58	0.67	16.57
5	16	252	0	131	1100	0030	4.70	4.60	4.66	11.00	0.00
5	17	209	-74	62	1045	1930	4.60	4.49	4.53	6.01	0.89
5	18	12	-376	-95	0900	2345	4.63	4.53	4.54	0.02	8.00
5	19	66	-355	-108	1845	0130	4.75	4.61	4.68	1.09	10.19
5	20	1060	-157	96	2400	0945	6.00	4.59	4.83	12.00	3.07
5	21	6380	1170	3620	2315	0030	8.86	6.04	7.43	314.31	0.00

[c] Data are missing from 4-5 to 4-18.

Table 6b.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours			Feet		Million gallons per day	
5	22	9620	5850	7750	2345	0030	10.13	8.88	9.63	670.85	0.00
5	23	10600	8540	9500	1000	1245	10.40	10.14	10.30	820.35	0.00
5	24	9680	3560	7990	0030	0715	10.42	10.30	10.38	689.69	0.00
5	25	8930	6390	7520	0215	2345	10.30	9.96	10.14	648.05	0.00
5	26	6970	4770	5920	0015	2230	9.96	9.49	9.74	509.83	0.00
5	27	5300	3320	4300	0145	2245	9.49	8.85	9.18	370.18	0.00
5	28	3630	2240	2930	0230	2345	8.85	8.15	8.50	251.98	0.00
5	29	2610	1590	2050	0130	2215	8.15	7.50	7.82	176.72	0.00
5	30	1750	1080	1430	0600	2345	7.49	6.91	7.19	123.24	0.00
5	31	1210	660	952	0015	2400	6.90	6.42	6.66	81.53	0.00
6	1	771	368	619	0230	2345	6.41	6.00	6.20	52.95	0.00
6	2	408	0	260	0100	2130	6.00	5.68	5.88	17.86	0.00
6	3	95	-304	-128	0945	1400	5.68	5.58	5.61	0.28	11.14
6	4	-56	-293	-192	0515	1130	5.58	5.46	5.50	0.00	16.05
6	5	89	-429	-70	2215	1930	5.46	5.32	5.38	0.31	6.09
6	6	724	18	326	2345	0230	5.77	5.36	5.51	27.99	0.00
6[d]	7	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
6	30	1500	1040	1310	0400	2400	6.39	6.29	6.36	112.61	0.00
7	1	1310	646	958	0045	2245	6.29	5.97	6.14	82.12	0.00
7	2	812	369	594	0045	2230	5.97	5.64	5.81	50.70	0.00
7	3	461	177	325	0115	2400	5.64	5.39	5.51	27.51	0.00
7	4	230	-66	68	0115	2230	5.39	5.19	5.28	5.94	0.35
7	5	16	-152	-24	0700	2100	5.19	4.97	5.07	0.07	1.93
7	6	778	-31	418	2300	0015	5.54	5.03	5.27	35.98	0.02
7	7	810	566	695	0830	0300	5.66	5.54	5.62	59.57	0.00
7	8	665	0	470	0030	1645	5.60	5.26	5.45	39.92	0.00
7	9	270	30	144	0015	2315	5.26	4.93	5.09	11.88	0.00
7	10	74	-27	33	0015	2230	4.93	4.71	4.82	2.54	0.04
7	11	0	-263	-73	0015	2345	4.71	4.54	4.62	0.00	5.87
7	12	-61	-307	-161	1615	2200	4.60	4.49	4.54	0.00	13.39
7	13	-61	-286	-176	1215	2315	4.56	4.47	4.52	0.00	14.69
7	14	-49	-250	-141	1145	0100	4.56	4.49	4.53	0.00	11.57
7	15	-52	-240	-146	1300	0130	4.71	4.56	4.62	0.00	12.21
7	16	-54	-266	-148	0545	1930	4.72	4.67	4.69	0.00	12.30
7	17	-66	-305	-127	1645	2145	4.72	4.65	4.68	0.00	10.64
7	18	-53	-231	-139	1400	0430	4.73	4.66	4.69	0.00	11.60
7	19	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
7	20	0	-223	-59	1045	0015	4.65	4.53	4.58	0.00	4.61
7	21	12	-235	-82	0015	2330	4.54	4.48	4.50	0.01	6.81
7	22	73	-249	-84	0930	0030	4.54	4.47	4.50	0.54	7.55
7	23	12	-199	-43	0815	0015	4.55	4.50	4.52	0.06	3.50
7	24	72	-37	8	2100	0015	4.54	4.47	4.50	1.13	0.49
7	25	47	-94	-2	1015	0930	4.48	4.37	4.41	0.46	0.63
7	26	11	-537	-40	1115	0745	4.38	4.25	4.29	0.00	3.15
7	27	43	-143	-53	0530	2030	4.27	4.12	4.18	0.10	4.48
7	28	48	-135	-47	0715	2130	4.16	4.01	4.06	0.12	3.91
7	29	38	-213	-65	0300	2045	4.16	4.05	4.09	0.10	5.46
7	30	0	-246	-65	0500	2130	4.18	4.02	4.11	0.00	5.10
7	31	0	-118	-35	1930	0015	4.13	4.07	4.10	0.00	2.40
8	1	10	-327	-33	1345	0745	4.14	4.07	4.09	0.00	2.43
8	2	130	-61	-5	2400	1730	4.44	4.11	4.17	0.84	0.85
8	3	2090	143	868	2315	0015	6.11	4.45	5.22	75.39	0.00
8	4	3700	2060	2890	2345	0030	7.23	6.13	6.74	250.34	0.00
8	5	4020	2510	3640	1145	1945	7.54	7.24	7.44	313.61	0.00
8	6	3780	2790	3250	0615	2030	7.53	7.41	7.48	280.09	0.00
8	7	3210	1900	2490	0230	2400	7.41	6.95	7.20	214.32	0.00
8	8	2200	1280	1720	0100	2230	6.95	6.57	6.73	147.97	0.00

[d] Data are missing from 6-7 to 6-29.

Table 6b.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours			Feet		Million gallons per day	
8	9	1510	1150	1350	0815	2130	6.56	6.33	6.43	116.15	0.00
8	10	1530	1120	1310	1545	0915	6.34	6.31	6.32	112.37	0.00
8	11	1400	927	1150	1115	2400	6.33	6.15	6.25	98.80	0.00
8	12	1140	742	935	2345	1700	6.25	6.08	6.13	80.42	0.00
8	13	2300	1060	1600	2315	0115	6.88	6.26	6.57	138.59	0.00
8	14	2640	1530	2280	0900	1530	7.10	6.88	7.03	196.73	0.00
8	15	2570	1450	2180	0400	2015	7.10	6.90	7.06	174.50	0.00
8	16	2030	759	1420	0145	1300	6.89	6.46	6.68	122.00	0.00
8	17	1270	590	947	0200	1130	6.47	6.16	6.29	81.28	0.00
8	18	859	43	468	0115	1715	6.16	5.97	6.05	39.73	0.00
8	19	445	0	209	0430	1545	5.96	5.73	5.85	17.43	0.00
8	20	198	-57	98	0030	1130	5.72	5.47	5.59	8.24	0.20
8	21	91	-138	-16	0015	1445	5.47	5.23	5.35	1.63	3.05
8	22	-48	-173	-108	1015	1530	5.23	5.02	5.12	0.00	8.87
8	23	-60	-567	-137	0645	1845	5.02	4.86	4.94	0.00	11.39
8	24	-114	-263	-167	0500	2300	4.86	4.76	4.80	0.00	13.99
8	25	-82	-459	-172	0745	1915	4.78	4.65	4.71	0.00	14.34
8	26	-102	-208	-156	0900	1645	4.66	4.48	4.57	0.00	12.91
8	27	-108	-302	-176	1115	2300	4.50	4.43	4.46	0.00	14.70
8	28	-75	-291	-177	0945	0015	4.57	4.49	4.53	0.00	14.86
8	29	0	-180	-102	0715	2345	4.58	4.46	4.51	0.00	8.35
8	30	-34	-192	-98	1200	0030	4.47	4.30	4.39	0.00	8.13
8	31	-85	-319	-122	1945	2000	4.33	4.23	4.29	0.00	10.03
9	1	-63	-183	-133	2345	1830	4.26	4.21	4.24	0.00	10.97
9	2	-62	-220	-143	0115	0830	4.21	4.17	4.19	0.00	11.93
9	3	-51	-309	-154	0815	2215	4.24	4.18	4.20	0.00	12.96
9	4	-31	-223	-119	0745	0015	4.29	4.19	4.23	0.00	9.73
9	5	-32	-384	-159	0330	2000	4.36	4.25	4.28	0.00	13.14
9	6	-24	-213	-158	1415	2400	4.69	4.36	4.48	0.00	13.20
9	7	0	-322	-108	0830	1715	4.83	4.69	4.77	0.00	8.82
9	8	0	-329	-102	1115	2400	4.85	4.80	4.81	0.00	11.57
9	9	-85	-386	-192	1130	2100	4.86	4.83	4.84	0.00	16.05
9	10	-45	-244	-139	2400	0015	4.97	4.82	4.86	0.00	11.41
9	11	422	-60	192	2215	0015	5.27	4.98	5.13	16.74	0.37
9	12	543	185	328	1845	1445	5.40	5.24	5.29	27.77	0.00
9	13	593	293	459	1230	2330	5.43	5.32	5.40	39.10	0.00
9	14	395	106	219	0045	2330	5.32	4.99	5.15	18.39	0.00
9	15	159	-56	56	1000	2000	4.99	4.76	4.85	4.61	0.11
9	16	0	-871	-74	1215	1600	4.76	4.69	4.71	0.00	6.00
9	17	-67	-261	-122	1300	2115	4.78	4.70	4.72	0.00	10.11
9	18	0	-281	-134	0430	1745	4.81	4.76	4.77	0.00	11.03
9	19	223	-706	-168	2400	1815	5.80	4.78	5.04	0.84	14.89
9	20	2950	229	1530	2345	0115	7.42	5.82	6.62	133.25	0.00
9	21	4520	1580	3650	2230	0515	8.14	7.44	7.87	315.36	0.00
9	22	4480	3360	3890	0800	2400	8.21	8.10	8.17	335.32	0.00
9	23	3680	2470	3310	0600	2230	8.10	7.58	7.87	285.57	0.00
9	24	2970	1880	2380	0300	2130	7.57	6.95	7.26	205.09	0.00
9	25	2040	1120	1560	0015	1945	6.94	6.40	6.66	134.07	0.00
9	26	1280	511	893	0130	2330	6.39	5.94	6.16	76.43	0.00
9	27	657	-196	415	0045	1815	5.94	5.60	5.76	35.37	0.17
9	28	284	0	132	0030	2000	5.59	5.33	5.46	10.80	0.00
9	29	97	-149	-16	2145	1715	5.33	5.15	5.23	0.69	2.04
9	30	0	-233	-120	0015	1915	5.15	5.05	5.09	0.00	10.04

Table 6c.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1984 water year

[M, month of the year; D, day of the month; MXQ, maximum instantaneous daily discharge; MIQ, minimum instantaneous daily discharge; MNQ, mean daily discharge; TMAX, time of maximum instantaneous daily discharge; TMIN, time of minimum instantaneous daily discharge; MXS, maximum instantaneous daily stage; MIS, minimum instantaneous daily stage; MNS, mean daily stage; VDS, volume of flow downstream; VUS, volume of flow upstream; 99999, missing data]

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours		Feet			Million gallons per day	
10	1	-92	-217	-164	0700	0015	5.05	4.96	5.00	0.00	13.60
10	2	-117	-339	-188	1345	2345	4.96	4.89	4.91	0.00	15.81
10	3	-129	-345	-207	1645	2215	4.93	4.85	4.89	0.00	16.63
10	4	-128	-402	-239	1245	1830	4.88	4.83	4.85	0.00	20.13
10	5	-28	-275	-113	1730	0015	4.88	4.74	4.82	0.00	9.16
10	6	-55	-253	-146	0045	1645	4.74	4.68	4.69	0.00	12.22
10	7	-79	-305	-204	0545	1430	4.70	4.65	4.67	0.00	17.27
10	8	-40	-223	-145	0600	1815	4.70	4.63	4.66	0.00	11.97
10	9	-63	-530	-153	0900	2015	4.63	4.56	4.59	0.00	12.74
10	10	-112	-186	-145	1200	1800	4.56	4.50	4.53	0.00	12.09
10	11	-122	-303	-223	0015	1745	4.60	4.50	4.53	0.00	18.85
10	12	96	-243	-11	1400	0015	4.76	4.58	4.71	2.30	3.23
10	13	261	67	150	1130	2345	4.76	4.69	4.74	12.47	0.00
10	14	171	-50	76	0315	2215	4.69	4.52	4.59	6.44	0.24
10	15	0	-276	-93	0030	2100	4.52	4.44	4.46	0.00	7.80
10	16	-71	-288	-167	1100	2015	4.49	4.44	4.45	0.00	13.87
10	17	-61	-577	-179	0530	0915	4.52	4.47	4.48	0.00	14.95
10	18	-61	-302	-148	0245	2330	4.52	4.45	4.47	0.00	12.42
10	19	-122	-357	-238	0530	1830	4.56	4.49	4.50	0.00	20.11
10	20	-25	-368	-210	1145	2100	4.60	4.54	4.57	0.00	17.67
10	21	-39	-536	-210	1215	2400	4.70	4.58	4.61	0.00	17.78
10	22	413	-549	71	2230	0015	5.24	4.70	4.98	9.87	3.36
10	23	898	402	710	1415	0015	5.59	5.24	5.48	61.07	0.00
10	24	831	301	642	0030	2130	5.58	5.35	5.48	54.80	0.00
10	25	515	232	360	0245	2115	5.35	5.00	5.18	30.58	0.00
10	26	318	68	177	0030	1715	4.99	4.60	4.79	14.79	0.00
10	27	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	28	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	29	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	30	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	31	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
11	1	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
11	2	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
11	3	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
11	4	0	-215	-114	2145	1700	4.36	4.28	4.30	0.00	9.19
11	5	0	-195	-85	0830	2215	4.30	4.16	4.21	0.00	6.72
11	6	-35	-243	-148	1615	0415	4.47	4.18	4.31	0.00	12.28
11	7	0	-72	-39	0915	0030	4.46	4.35	4.41	0.00	3.23
11	8	-34	-180	-99	0130	2215	4.35	4.34	4.34	0.00	8.48
11	9	0	-264	-127	0415	1500	4.41	4.32	4.35	0.00	10.65
11	10	44	-128	-33	0430	1115	4.39	4.05	4.20	0.04	2.42
11	11	-18	-189	-79	1145	0645	4.05	3.91	3.98	0.00	6.40
11	12	-91	-272	-209	0015	1415	4.16	3.92	4.05	0.00	17.64
11	13	-30	-233	-135	0200	1015	4.16	4.11	4.14	0.00	11.26
11	14	-64	-385	-211	2400	1630	4.29	4.09	4.18	0.00	17.70
11	15	10	-250	-68	0945	2400	4.24	3.95	4.08	0.00	5.50
11	16	-27	-266	-120	0800	2315	4.02	3.88	3.93	0.00	9.88
11	17	-112	-294	-205	0600	1715	4.12	3.99	4.05	0.00	17.12
11	18	-58	-421	-233	0700	1545	4.24	4.08	4.14	0.00	18.83
11	19	-52	-551	-248	0045	1830	4.61	4.17	4.29	0.00	20.93
11	20	467	-147	187	2145	0715	5.02	4.61	4.79	16.76	0.63
11	21	515	0	401	0545	1045	5.09	5.02	5.06	34.19	0.00
11	22	319	14	168	0245	2030	5.02	4.83	4.91	13.96	0.00

Table 6c.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours			Feet		Million gallons per day	
11	23	242	-130	52	2345	0715	5.15	4.81	4.95	4.91	0.49
11	24	636	-328	436	1545	1000	5.39	5.16	5.31	37.57	0.29
11[e]	25	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
12	8	482	120	293	0100	2300	5.66	5.30	5.48	24.70	0.00
12	9	187	0	89	0015	1915	5.29	4.99	5.14	7.17	0.00
12	10	181	-86	-3	2400	1800	5.19	4.84	4.93	1.67	1.78
12	11	1060	198	597	2400	0015	6.14	5.20	5.76	51.54	0.00
12	12	1260	907	1090	1615	0545	6.43	6.15	6.31	84.76	0.00
12	13	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
12	14	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
12	15	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
12	16	95	-74	6	0145	1400	5.61	5.48	5.53	0.87	0.48
12	17	18	-55	-2	0130	0415	5.48	5.42	5.44	0.16	0.41
12	18	0	-86	-23	0015	2245	5.42	5.29	5.36	0.00	1.87
12	19	0	-85	-39	0945	0200	5.29	5.08	5.18	0.00	2.96
12	20	0	-117	-62	0015	2315	5.08	4.89	4.98	0.00	4.92
12	21	-87	-353	-210	0030	1600	4.97	4.87	4.90	0.00	17.64
12	22	-57	-400	-105	1800	1615	4.97	4.78	4.88	0.00	8.45
12	23	-69	-163	-125	0115	1700	4.78	4.69	4.73	0.00	10.41
12	24	0	-133	-67	1700	0030	4.69	4.17	4.47	0.00	5.35
12	25	-40	-172	-121	0130	1315	4.21	4.07	4.14	0.00	10.05
12	26	-109	-187	-154	2200	1345	4.31	4.21	4.27	0.00	12.61
12	27	-113	-245	-177	2330	0915	4.57	4.28	4.42	0.00	14.97
12	28	205	-126	34	2100	0015	5.13	4.57	4.86	4.53	1.53
12	29	260	63	173	0500	1715	5.17	5.02	5.12	14.43	0.00
12	30	168	-43	58	0045	1030	5.01	4.63	4.82	4.61	0.05
12	31	25	-92	-42	0200	1930	4.62	4.35	4.46	0.05	3.52
1	1	-67	-185	-104	0245	1530	4.35	4.25	4.28	0.00	8.40
1	2	-104	-125	-112	1915	2015	4.26	4.20	4.22	0.00	9.22
1	3	-93	-146	-111	1445	2330	4.21	4.18	4.19	0.00	9.34
1	4	-105	-151	-124	0730	1945	4.26	4.20	4.23	0.00	10.31
1	5	-42	-151	-110	1500	1945	4.26	4.17	4.22	0.00	7.64
1	6	-62	-200	-120	2115	1415	4.24	4.18	4.20	0.00	10.01
1	7	-50	-163	-105	0500	1245	4.18	4.13	4.15	0.00	8.71
1	8	-91	-204	-135	1215	1730	4.18	4.15	4.16	0.00	11.18
1	9	72	-368	-117	2400	1245	4.85	4.16	4.34	0.56	10.30
1	10	1230	72	685	2345	0015	6.07	4.87	5.54	59.25	0.00
1	11	1420	847	1150	0915	2045	6.31	6.08	6.24	99.10	0.00
1	12	1140	533	838	0145	2130	6.26	5.90	6.09	71.85	0.00
1	13	718	241	514	0415	2245	5.90	5.50	5.70	43.66	0.00
1	14	436	162	280	0230	2315	5.49	5.15	5.31	23.65	0.00
1	15	536	129	303	2315	0045	5.42	5.14	5.23	25.70	0.00
1	16	648	271	480	0745	0130	5.56	5.43	5.42	41.02	0.00
1	17	687	241	438	2200	0330	5.74	5.51	5.56	37.42	0.00
1	18	1550	503	900	2345	0100	6.49	5.75	6.10	77.57	0.00
1	19	1700	1050	1390	1745	0330	6.81	6.50	6.71	119.59	0.00
1	20	1560	773	1120	0130	2015	6.79	6.42	6.63	96.12	0.00
1	21	965	405	708	0630	2330	6.42	5.94	6.18	60.54	0.00
1	22	630	187	380	0200	2215	5.94	5.52	5.72	32.28	0.00
1	23	276	0	92	0115	1500	5.51	5.24	5.36	7.50	0.00
1	24	305	-33	48	2315	0400	5.45	5.19	5.25	4.23	0.16
1	25	778	182	444	2400	0045	6.09	5.45	5.80	38.14	0.00
1	26	886	520	714	0545	2400	6.21	6.09	6.17	61.17	0.00
1	27	807	313	519	0230	2130	6.15	5.84	6.00	44.35	0.00
1	28	531	129	328	0145	2330	5.84	5.50	5.67	27.74	0.00
1	29	276	33	168	1500	2400	5.50	5.19	5.35	14.03	0.00

[e] Data are missing from 11-25 to 12-7.

Table 6c.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
1	30	126	-48	33	0745	0345	5.19	4.88	5.04	2.62	0.11
1	31	72	-107	-11	0030	1715	4.88	4.64	4.75	0.27	1.08
2	1	0	-111	-41	0015	1730	4.64	4.48	4.55	0.00	3.22
2	2	-60	-118	-85	0015	1215	4.47	4.40	4.43	0.00	6.72
2	3	50	-119	-26	2300	0145	4.56	4.43	4.50	0.43	2.45
2	4	89	-50	8	0715	1615	4.59	4.52	4.57	1.30	0.70
2	5	12	-71	-40	0030	1200	4.52	4.27	4.41	0.01	3.22
2	6	0	-88	-54	0345	1515	4.26	4.04	4.09	0.00	4.24
2	7	-38	-132	-86	0030	1415	4.09	4.03	4.05	0.00	6.96
2	8	-47	-145	-103	0630	2045	4.09	4.01	4.05	0.00	8.40
2	9	259	-208	-82	2400	1600	4.74	4.09	4.23	1.41	7.90
2	10	1430	344	941	2230	0015	5.89	4.76	5.44	81.24	0.00
2	11	1460	921	1220	0530	2230	6.02	5.90	5.98	104.40	0.00
2	15	1950	1160	1480	0215	2345	6.99	6.44	6.71	127.48	0.00
2	16	1310	705	986	0245	2045	6.43	6.00	6.21	84.45	0.00
2	17	918	402	649	0145	2315	5.99	5.61	5.80	55.43	0.00
2	18	492	70	284	0100	2315	5.60	5.35	5.46	23.92	0.00
2	19	138	16	87	0315	2345	5.35	5.10	5.23	7.00	0.00
2	20	79	-59	23	0015	1730	5.10	4.88	4.99	1.71	0.07
2	21	56	-68	-7	0745	2030	4.88	4.72	4.78	0.42	0.93
2	22	-41	-206	-117	0930	2245	4.76	4.72	4.73	0.00	9.67
2	23	-55	-259	-126	0415	2130	4.76	4.71	4.73	0.00	10.43
2	24	-66	-160	-95	1730	0900	4.73	4.60	4.68	0.00	4.85
2	25	-25	-310	-132	0545	2000	4.60	4.50	4.54	0.00	10.99
2	26	167	-276	-160	2400	1745	5.00	4.58	4.68	0.44	13.68
2	27	1080	169	633	1945	0030	5.89	5.01	5.51	54.57	0.00
2	28	1210	677	939	1445	2300	5.96	5.82	5.91	80.65	0.00
3[f]	1	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
3	21	263	-36	137	0130	2315	4.78	4.47	4.62	11.43	0.13
3	22	0	-409	-125	0115	1715	4.46	4.28	4.35	0.00	10.56
3	23	-23	-316	-170	0815	2115	4.39	4.30	4.34	0.00	14.28
3	24	-23	-315	-124	1430	0230	4.44	4.32	4.38	0.00	10.36
3	25	11	-128	-78	0445	2045	4.33	4.23	4.26	0.00	6.23
3	26	-108	-319	-188	0545	1845	4.31	4.22	4.25	0.00	15.73
3	27	-112	-329	-234	0515	2015	4.40	4.32	4.34	0.00	19.87
3	28	79	-239	-71	1445	0930	4.42	4.14	4.33	0.52	6.46
3	29	19	-244	-79	0530	1900	4.12	3.80	3.94	0.01	6.51
3	30	-18	-264	-125	0815	1645	4.00	3.86	3.93	0.00	10.29
3	31	-92	-268	-167	1300	2000	4.06	3.97	4.00	0.00	14.05
4	1	-38	-284	-145	0745	1945	4.10	3.96	4.02	0.00	12.06
4	2	-80	-330	-221	0645	1930	4.33	4.04	4.16	0.00	18.64
4	3	45	-168	-50	0815	0015	4.38	4.15	4.27	0.25	4.19
4	4	94	-61	9	1230	0015	4.15	3.92	4.04	1.43	0.66
4	5	45	-304	-102	0015	1930	3.91	3.58	3.72	0.16	8.78
4	6	18	-294	-145	0830	1915	3.85	3.69	3.76	0.02	12.04
4	7	63	-389	-189	1100	1845	4.02	3.79	3.88	0.11	16.13
4	8	40	-389	-94	0945	0015	4.18	4.00	4.11	0.03	7.54
4	9	81	-128	-12	0400	1800	4.18	3.95	4.05	1.13	2.22
4	10	68	-199	-29	0215	1900	4.19	4.05	4.09	0.93	4.21
4	11	101	-261	-72	0615	1715	4.32	4.14	4.21	0.92	6.90
4	12	22	-67	-34	2230	0930	4.33	4.26	4.29	0.01	2.49
4	13	11	-140	-48	0600	2300	4.26	4.12	4.18	0.00	3.85
4	14	77	-91	-6	1200	0015	4.17	3.95	4.07	0.94	1.26
4	15	63	-109	-19	2200	1115	3.95	3.73	3.89	0.55	2.06
4	16	-26	-165	-78	2100	2400	3.81	3.59	3.73	0.00	6.33
4	17	-27	-272	-171	2345	0215	3.92	3.61	3.75	0.00	14.24

[f] Data are missing from 3-1 to 3-20.

Table 6c.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours			Feet		Million gallons per day	
4	18	9	-319	-142	0015	1730	4.06	3.82	3.90	0.00	11.92
4	19	-58	-282	-129	0700	1100	4.15	4.05	4.09	0.00	10.50
4	20	0	-437	-180	1030	1630	4.31	4.15	4.19	0.00	15.19
4	21	45	-326	-102	0915	0400	4.37	4.28	4.32	0.39	8.84
4	22	88	-29	32	0430	2030	4.33	4.07	4.20	2.54	0.17
4	23	36	-178	-48	1200	2315	4.06	3.75	3.88	0.07	4.04
4	24	-46	-280	-160	2330	1740	3.94	3.76	3.83	0.00	13.28
4	25	-45	-352	-196	0030	1430	3.93	3.84	3.87	0.00	16.56
4	26	0	-977	-257	1030	2145	4.13	3.93	4.02	0.00	21.71
4	27	0	-347	-101	0645	0130	4.24	4.07	4.14	0.00	8.01
4	28	-19	-264	-105	0030	2000	4.08	3.93	4.01	0.00	8.64
4	29	-53	-327	-203	2345	0800	4.26	4.00	4.16	0.00	16.91
4	30	19	-223	-57	1145	2245	4.22	3.76	4.01	0.01	4.64
5	1	-45	-323	-202	0330	1600	3.99	3.74	3.82	0.00	17.10
5	2	-56	-349	-215	1115	2045	4.11	3.98	4.03	0.00	18.05
5	3	0	-335	-199	1145	0015	4.24	3.97	4.14	0.00	10.13
5	4	9	-252	-109	0500	1645	3.96	3.76	3.83	0.00	9.09
5	5	-144	-413	-246	0215	1445	4.00	3.86	3.93	0.00	20.53
5	6	-131	-414	-277	1145	1600	4.19	3.96	4.07	0.00	23.20
5	7	0	-439	-221	0915	1600	4.21	4.03	4.11	0.00	18.57
5	8	118	-305	7	1330	0015	4.19	3.76	3.95	2.72	2.12
5	9	0	-189	-65	0600	2345	3.85	3.78	3.81	0.00	5.29
5	10	954	-297	-147	0630	1745	3.93	3.77	3.82	0.00	12.18
5	11	-18	-272	-125	0245	1900	3.94	3.82	3.88	0.00	10.49
5	12	-27	-278	-130	1000	2115	3.94	3.77	3.83	0.00	10.87
5	13	-71	-356	-154	0430	2230	3.84	3.71	3.75	0.00	12.95
5	14	-53	-376	-173	0930	2145	3.79	3.59	3.66	0.00	14.56
5	15	-95	-356	-219	0845	2115	3.70	3.52	3.59	0.00	18.31
5	16	0	-202	-113	1045	0015	3.70	3.54	3.61	0.00	9.23
5	17	-35	-352	-196	0615	2200	3.72	3.48	3.59	0.00	16.42
5	18	-53	-363	-197	0945	1845	3.78	3.56	3.67	0.00	16.52
5	19	-71	-369	-216	0315	1500	4.02	3.74	3.83	0.00	18.23
5	20	2460	-232	836	2315	0230	6.55	4.00	5.11	75.92	2.76
5	21	4520	2210	3580	2215	0015	7.92	6.57	7.38	309.80	0.00
5	22	5470	1430	4490	2130	0045	8.40	7.92	8.15	387.99	0.00
5	23	6190	3090	5540	2130	0430	8.83	8.40	8.66	478.26	0.00
5	24	6040	3810	4860	0115	2115	8.83	8.44	8.69	418.84	0.00
5	25	4500	2860	3620	0045	2400	8.43	7.79	8.10	311.87	0.00
5	26	3260	1860	2560	0230	2300	7.78	7.18	7.49	220.19	0.00
5	27	2230	1130	1680	0045	2345	7.17	6.60	6.88	144.00	0.00
5	28	1320	600	961	0130	2400	6.59	6.09	6.34	82.17	0.00
5	29	800	137	423	0015	2100	6.09	5.63	5.86	35.90	0.00
5	30	280	17	151	1530	2330	5.63	5.27	5.44	12.50	0.00
5	31	17	-277	-113	0015	2300	5.26	5.15	5.18	0.03	9.46
6	1	-65	-322	-201	0900	2330	5.19	5.11	5.15	0.00	16.95
6	2	-142	-322	-215	1415	0015	5.15	5.08	5.11	0.00	18.01
6	3	-124	-300	-199	1215	0200	5.10	5.01	5.05	0.00	16.73
6	4	-92	-309	-199	0715	2330	5.04	4.91	4.97	0.00	16.63
6	5	-132	-350	-255	1400	2315	4.95	4.89	4.92	0.00	21.63
6	6	-282	-496	-346	0715	2330	4.98	4.90	4.93	0.00	29.47
6	7	-138	-515	-289	1015	0115	4.99	4.00	4.53	0.00	24.46
6	8	-225	-409	-336	1415	0730	4.99	4.95	4.97	0.00	28.55
6	9	-180	-407	-313	1430	2200	4.99	4.96	4.97	0.00	26.55
6	10	-101	-454	-222	1315	2315	4.99	4.00	4.47	0.00	18.72
6	11	-139	-512	-313	0300	2315	5.06	4.00	4.70	0.00	26.66
6	12	-315	-488	-386	0645	2200	5.10	5.06	5.08	0.00	32.85
6	13	-238	-476	-339	1445	0045	5.14	5.10	5.12	0.00	27.97
6	14	0	-399	-220	1730	0030	5.13	5.07	5.11	0.00	18.58
6	15	-47	-394	-142	1730	1815	5.19	5.09	5.11	0.00	11.72

Table 6c.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
6	16	65	-97	-25	1215	0100	5.21	5.12	5.16	1.00	2.06
6	17	136	-105	26	2045	2145	5.37	5.19	5.23	2.16	0.34
6	18	254	-35	69	1715	0130	5.36	5.27	5.31	5.77	0.09
6	19	248	0	94	1845	1015	5.27	5.19	5.23	7.65	0.00
6	20	32	-62	-8	0730	1645	5.19	5.02	5.11	0.22	0.85
6	21	0	-174	-77	0015	2215	5.02	4.89	4.95	0.00	6.28
6	22	-57	-194	-112	1045	2145	4.89	4.77	4.83	0.00	9.19
6	23	-67	-194	-123	1515	0015	4.78	4.68	4.73	0.00	10.20
6	24	-52	-159	-99	1015	0015	4.68	4.58	4.64	0.00	8.02
6	25	51	-66	-9	2000	0045	4.71	4.54	4.65	0.25	0.87
6	26	-25	-179	-118	0100	2100	4.54	4.44	4.47	0.00	9.49
6	27	52	-227	-104	2345	0730	4.65	4.45	4.50	0.15	8.61
6	28	181	0	86	1145	0030	4.82	4.66	4.77	7.01	0.00
6	29	56	-28	11	0030	1915	4.81	4.73	4.77	0.83	0.06
6	30	226	-28	65	2230	0100	4.99	4.00	4.82	5.44	0.04
7	1	327	121	245	1230	0015	5.20	4.02	5.09	20.83	0.00
7	2	317	90	203	1100	2345	5.18	4.97	5.09	16.54	0.00
7	3	223	75	139	1030	0045	4.97	4.88	4.92	11.60	0.00
7	4	313	88	191	1245	2200	4.96	4.90	4.93	16.06	0.00
7	5	209	53	102	1245	2215	4.90	4.69	4.79	8.30	0.00
7	6	93	-51	20	0015	2215	4.68	4.60	4.63	1.80	0.39
7	7	0	-64	-39	1115	0045	4.60	4.53	4.55	0.00	2.99
7	8	50	-110	-39	1515	1430	4.62	4.49	4.54	0.15	3.16
7	9	51	965	-11	1400	0200	4.63	4.56	4.59	0.40	1.18
7	10	0	-63	-22	0545	0145	4.59	4.55	4.56	0.00	1.67
7	11	50	-76	-14	2130	0215	4.60	4.56	4.58	0.37	1.42
7	12	61	-63	-23	1645	0330	4.57	4.49	4.52	0.14	1.92
7	13	62	-74	-23	1230	0345	4.61	4.50	4.53	0.16	1.95
7	14	113	-39	27	2230	0230	4.85	4.61	4.71	2.27	0.11
7	15	226	59	131	2230	0945	4.98	4.85	4.94	10.86	0.00
7	16	248	99	155	1530	2330	4.98	4.83	4.91	12.91	0.00
7	17	156	-70	88	0015	0715	4.83	4.68	4.75	7.13	0.03
7	18	142	-154	47	1315	1515	4.68	4.61	4.63	3.62	0.13
7	19	126	-25	58	1415	2215	4.61	4.52	4.56	4.43	0.02
7	20	48	-37	-3	1615	0200	4.53	4.45	4.48	0.55	0.75
7	21	0	-72	-35	0015	0345	4.47	4.42	4.44	0.00	2.87
7	22	0	-93	-46	0245	0900	4.42	4.36	4.39	0.00	3.81
7	23	0	-178	-71	0445	1830	4.36	4.25	4.31	0.00	5.77
7	24	-22	-226	-92	1415	2245	4.35	4.31	4.32	0.00	7.80
7	25	22	-230	-104	0600	2045	4.39	4.32	4.34	0.14	7.37
7	26	23	-127	-44	0430	0015	4.41	4.32	4.36	0.07	3.73
7	27	121	-24	35	1615	0145	4.53	4.41	4.47	2.83	0.06
7	28	137	0	58	1615	1930	4.71	4.53	4.57	4.56	0.00
7	29	409	108	235	1715	0015	4.99	4.00	4.66	19.90	0.00
7	30	392	147	270	0845	0345	4.99	4.00	4.69	22.89	0.00
7	31	279	139	212	1900	1845	4.88	4.75	4.84	17.45	0.00
8	1	218	51	109	0145	2030	4.75	4.59	4.67	8.91	0.00
8	2	64	-37	24	0015	2330	4.59	4.50	4.54	1.95	0.12
8	3	24	-467	-103	1215	2130	4.76	4.46	4.53	0.06	8.94
8	4	111	-420	-162	2315	0145	5.10	4.00	4.80	0.94	14.44
8	5	221	-193	65	2345	1415	5.28	5.09	5.14	5.77	0.42
8	6	440	137	292	0715	0145	5.40	5.28	5.37	24.82	0.00
8	7	348	192	262	1030	0915	5.38	5.26	5.32	22.08	0.00
8	8	426	116	228	2400	1045	5.29	5.19	5.22	19.35	0.00
8	9	767	293	463	2215	0315	5.58	5.29	5.41	39.61	0.00
8	10	934	578	737	1645	2115	5.74	5.59	5.69	63.21	0.00
8	11	755	393	569	0015	2300	5.73	5.54	5.65	48.52	0.00
8	12	530	260	396	0615	2300	5.53	5.32	5.43	33.75	0.00

Table 6c.--Daily discharge data for Bayou Queue de Tortue near Riceville, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
8	13	358	94	214	0245	2400	5.32	5.09	5.19	17.91	0.00
8	14	188	30	129	0215	2245	5.08	4.98	5.04	10.69	0.00
8	15	90	-28	55	0100	2300	4.98	4.81	4.89	4.28	0.02
8	16	66	-108	-20	2200	1615	4.81	4.67	4.74	0.37	1.88
8	17	13	-65	-30	0015	0645	4.66	4.52	4.60	0.04	2.34
8	18	0	-70	-42	0545	1630	4.52	4.41	4.45	0.00	3.40
8	19	-23	-191	-100	0800	2215	4.41	4.31	4.35	0.00	8.47
8	20	23	-181	-60	1800	0015	4.49	4.32	4.38	0.17	5.18
8	21	47	-58	-3	2015	2400	4.49	4.40	4.45	0.48	0.77
8	22	-34	-267	-78	0630	2130	4.40	4.26	4.32	0.00	7.90
8	23	22	-111	-24	0345	0015	4.32	4.25	4.26	0.04	1.64
8	24	-21	-174	-82	0730	2215	4.25	4.15	4.17	0.00	6.54
8	25	10	-238	-124	0330	2345	4.19	4.06	4.11	0.00	10.36
8	26	21	-239	-97	2200	0045	4.26	4.15	4.20	0.02	7.85
8	27	-21	-213	-89	1000	2015	4.26	4.19	4.22	0.00	7.15
8	28	-31	-156	-99	0530	1430	4.25	4.16	4.20	0.00	8.09
8	29	0	-125	-78	0745	1315	4.23	4.18	4.19	0.00	6.24
8	30	10	-85	-33	0415	0900	4.26	4.20	4.23	0.00	2.22
8	31	56	-44	-1	1645	1230	4.34	4.25	4.30	0.46	0.37
9	1	0	-126	-39	0015	2200	4.37	4.31	4.33	0.00	3.33
9	2	-44	-177	-83	0615	1700	4.35	4.27	4.29	0.00	6.45
9	3	-32	-310	-122	0330	1930	4.27	4.16	4.21	0.00	10.06
9	4	11	-202	-69	1915	1015	4.27	4.19	4.22	0.00	5.49
9	5	-20	-272	-84	1515	2345	4.22	4.10	4.15	0.00	6.79
9	6	-50	-254	-159	0715	0015	4.21	4.13	4.15	0.00	13.25
9	7	-42	-307	-183	0715	1800	4.28	4.18	4.22	0.00	15.30
9	8	-86	-291	-181	0415	1530	4.33	4.22	4.26	9.00	9.00
9	9	-88	-261	-153	0445	1745	4.33	4.25	4.28	0.00	12.51
9	10	-63	-3	-169	0800	1430	4.32	4.21	4.26	0.00	14.07
9	11	-31	-166	-107	0800	0015	4.31	4.22	4.26	0.00	8.52
9	12	0	-158	-85	0345	2230	4.30	4.19	4.22	0.00	6.93
9	13	-50	-239	-130	1115	1845	4.23	4.12	4.15	0.00	10.81
9	14	-51	-238	-116	1930	0615	4.25	4.13	4.16	0.00	9.54
9	15	36	-93	-31	2030	0030	4.19	3.90	4.06	0.06	2.50
9	16	0	-218	-94	0130	2400	3.92	3.78	3.83	0.00	7.71
9	17	-36	-265	-143	0230	1800	4.00	3.87	3.91	0.00	11.88
9	18	-55	-219	-120	1000	1500	3.98	3.92	3.95	0.00	9.96
9	19	-36	-262	-104	0315	2315	3.95	3.80	3.86	0.00	9.25
9	20	-36	-299	-155	1315	1845	3.96	3.84	3.90	0.00	12.86
9	21	-73	-327	-214	1000	2015	4.16	3.96	4.01	0.00	18.17
9	22	24	-316	-120	1715	0845	4.49	4.16	4.33	0.06	10.03
9	23	208	-24	82	1145	0030	4.75	4.49	4.63	6.80	0.06
9	24	150	-53	41	1115	2345	4.75	4.67	4.71	3.46	0.23
9	25	0	-189	-62	1245	2230	4.67	4.57	4.61	0.00	4.88
9	26	-50	-177	-85	1445	0015	4.57	4.47	4.53	0.00	6.81
9	27	-24	-167	-109	0130	1830	4.46	4.43	4.44	0.00	8.83
9	28	-57	-132	-94	1415	0015	4.46	4.32	4.39	0.00	7.81
9	29	-53	-239	-100	1515	1815	4.32	4.16	4.24	0.00	8.11
9	30	-61	-220	-115	2030	0045	4.22	4.15	4.19	0.00	9.51

Table 7a.--Daily discharge data for Bayou Lacassine near Lake Arthur, La., for the 1983 water year

[M, month of the year; D, day of the month; MXQ, maximum instantaneous daily discharge; MIQ, minimum instantaneous daily discharge; MNQ, mean daily discharge; TMAX, time of maximum instantaneous daily discharge; TMIN, time of minimum instantaneous daily discharge; MXS, maximum instantaneous daily stage; MIS, minimum instantaneous daily stage; MNS, mean daily stage; VDS, volume of flow downstream; VUS, volume of flow upstream; 99999, missing data]

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours		Feet			Million gallons per day	
4	22	730	-843	161	2230	315	8.93	8.77	8.85	26.67	12.40
4	23	1480	186	765	1615	2130	8.77	8.36	8.56	65.66	0.00
4	24	738	-596	139	0830	2300	8.45	8.25	8.35	17.21	5.92
4	25	280	-655	-162	2115	1045	8.51	8.35	8.45	3.27	16.88
4	26	234	-520	-76	0100	1015	8.60	8.48	8.54	2.33	8.90
4	27	516	-426	-70	0530	1200	8.61	8.50	8.56	4.31	10.12
4	28	467	-94	58	1200	2345	8.58	8.48	8.53	6.02	1.16
4	29	376	-522	-90	0815	0400	8.66	8.52	8.58	3.11	10.77
4	30	239	-721	-71	1600	1145	8.71	8.62	8.66	3.41	9.48
5	1	244	-1030	-357	2400	1145	8.96	8.68	8.80	1.23	31.61
5	2	918	-1030	-39	0400	1200	8.92	8.91	8.80	19.57	22.69
5	3	1530	139	751	0345	2015	8.75	8.32	8.49	64.30	0.00
5	4	502	-1940	-17	0100	1030	8.34	8.17	8.25	8.96	10.66
5	5	137	-364	-77	2000	0130	8.39	8.26	8.30	1.24	7.76
5	6	94	-746	-234	1645	1115	8.53	8.35	8.44	1.20	21.18
5	7	554	-375	43	1500	0015	8.50	8.34	8.43	8.34	4.56
5	8	622	-668	-86	0745	1745	8.35	8.08	8.16	8.34	15.72
5	9	672	-717	-257	2100	0945	8.32	8.07	8.17	2.72	24.44
5	10	718	-831	-75	0900	1300	8.44	8.20	8.34	6.48	12.89
5	11	367	-704	-90	0815	1330	8.59	8.36	8.47	4.09	11.78
5	12	746	-327	72	0100	1045	8.59	8.44	8.49	9.75	3.65
5	13	515	-910	-99	0400	2400	8.66	8.48	8.55	6.51	15.29
5	14	190	-815	-189	0545	0015	8.76	8.62	8.68	1.10	16.64
5	15	1590	-627	473	2215	1000	8.74	8.45	8.64	45.62	4.47
5	16	1720	278	740	0100	2345	8.47	8.40	8.43	62.95	0.00
5	17	463	-1140	-233	0230	1200	8.68	8.40	8.56	6.57	26.62
5	18	381	-1180	-243	0730	1930	8.86	8.62	8.72	6.04	26.91
5	19	1330	-244	438	1045	0215	8.81	8.61	8.69	39.32	1.53
5	20	1820	-439	569	2315	0515	9.34	8.69	8.87	50.96	1.66
5	21	7280	1570	4730	2230	0015	10.59	9.34	10.16	410.83	0.00
5	22	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
5	23	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
5	24	7190	4320	5860	0800	2330	10.80	10.72	10.76	505.63	0.00
5	25	6240	3550	4920	0045	2330	10.75	10.64	10.70	424.20	0.00
5	26	5270	2550	3990	0215	1900	10.66	10.55	10.61	343.61	0.00
5	27	4590	1550	2930.	0130	2230	10.55	10.40	10.47	252.56	0.00
5	28	3070	995	1930	0800	2200	10.40	10.22	10.31	166.49	0.00
5	29	2090	518	1190	0630	2330	10.26	10.07	10.16	101.99	0.00
5	30	1420	0	808	0715	1915	10.11	9.97	10.01	69.43	0.00
5	31	1210	442	744	2130	1915	9.97	9.74	9.85	63.95	0.00
6	1	715	0	313	0015	1400	9.74	9.67	9.70	26.31	0.00
6	2	436	-273	109	0115	1445	9.68	9.64	9.65	10.65	1.74
6	3	865	0	389	2345	0330	9.68	9.59	9.64	33.40	0.00
6	4	1010	268	773	2115	1145	9.59	9.44	9.51	66.39	0.00
6	5	1600	-53	723	1845	1545	9.47	9.38	9.41	61.94	0.04
6	6	1840	106	1170	2130	1500	9.46	9.39	9.41	101.09	0.00
6	7	2250	1000	1590	0845	0030	9.39	9.29	9.33	136.50	0.00
6	8	1660	513	1030	0045	2400	9.31	9.18	9.23	87.79	0.00
6	9	973	255	554	0330	1315	9.18	9.10	9.13	47.32	0.00
6	10	508	-509	103	0045	2200	9.12	9.06	9.08	12.45	4.01
6	11	658	-509	32	0645	2045	9.19	9.06	9.11	11.13	8.10
6	12	658	-305	202	0415	1915	9.11	9.04	9.07	19.60	2.47
6	13	605	-557	92	0730	2145	9.11	9.04	9.06	12.21	4.40

Table 7a.--Daily discharge data for Bayou Lacassine near Lake Arthur, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
6	14	799	-253	216	1330	0200	9.08	8.98	9.01	19.97	1.44
6	15	1510	-51	576	1630	1400	9.14	8.91	8.99	49.70	0.08
6	16	1600	550	1010	0845	1800	9.04	8.92	8.98	86.40	0.00
6	17	1750	0	1060	2130	0300	9.04	8.93	8.95	91.13	0.00
6	18	2060	664	1320	0430	1500	9.16	8.99	9.07	113.58	0.00
6	19	1930	607	1320	2145	1445	9.12	8.99	9.08	113.79	0.00
6	20	2020	402	1140	0100	2330	9.09	8.99	9.05	97.89	0.00
6	21	1310	-101	694	0115	1930	9.05	8.92	8.97	57.74	0.18
6	22	1100	-50	365	0200	1500	9.02	8.94	8.97	31.14	0.09
6	23	1230	50	518	1930	0700	9.17	8.98	9.08	44.37	0.00
6	24	1640	614	1110	1230	0030	9.26	9.16	9.20	95.93	0.00
6	25	2050	777	1320	2330	0415	9.38	9.25	9.30	113.68	0.00
6	26	2550	973	1640	0745	2330	9.60	9.36	9.50	140.54	0.00
6	27	2050	697	1230	0100	2330	9.60	9.52	9.55	105.42	0.00
6	28	1550	376	833	0615	0145	9.56	9.46	9.50	71.42	0.00
6	29	1010	426	772	1315	1630	9.51	9.46	9.47	63.31	0.00
6	30	851	265	593	0215	2100	9.49	9.41	9.43	50.61	0.00
7	1	846	262	529	0130	2100	9.43	9.34	9.37	45.36	0.00
7	2	781	104	513	0745	2215	9.35	9.28	9.31	73.70	0.00
7	3	880	0	391	0815	2200	9.30	9.24	9.27	33.17	0.00
7	4	832	0	399	2045	1145	9.29	9.18	9.23	34.34	0.00
7	5	1010	255	627	1630	0500	9.17	8.94	9.06	53.64	0.00
7	6	646	-400	158	0600	0045	8.99	8.84	8.91	15.45	2.18
7	7	440	-926	-241	0145	1845	8.84	8.76	8.78	4.64	25.55
7	8	97	-877	-298	0415	1800	8.80	8.73	8.76	0.24	25.51
7	9	388	-832	-211	2400	2230	8.83	8.72	8.76	1.96	19.68
7	10	386	-487	-70	0800	1530	8.81	8.70	8.74	5.69	11.78
7	11	385	-530	-117	0645	1845	8.80	8.64	8.70	6.14	16.30
7	12	336	-627	-187	0600	1815	8.73	8.64	8.69	2.83	18.81
7	13	480	-1020	-161	2230	1545	8.77	8.64	8.70	5.77	19.24
7	14	925	-479	221	2330	0915	8.80	8.61	8.70	22.72	3.52
7	15	973	0	499	0300	1400	8.92	8.78	8.84	42.61	0.00
7	16	883	148	548	2245	1330	8.89	8.81	8.85	46.93	0.00
7	17	784	-793	356	0152	1730	8.94	8.79	8.82	33.92	3.60
7	18	978	98	522	2245	1400	8.89	8.81	8.84	46.14	0.00
7	19	829	243	564	0115	1815	8.81	8.73	8.78	48.27	0.00
7	20	772	-337	503	0045	2115	8.72	8.58	8.66	43.79	0.93
7	21	856	-143	241	2345	1230	8.67	8.58	8.61	21.00	0.32
7	22	811	-143	351	2145	1615	8.66	8.55	8.60	30.10	0.24
7	23	850	237	566	2100	1815	8.63	8.54	8.57	48.52	0.00
7	24	896	234	537	0015	2130	8.55	8.42	8.48	45.86	0.00
7	25	743	0	395	0230	1545	8.48	8.37	8.40	33.70	0.00
7	26	553	-182	212	0015	1730	8.38	8.25	8.30	18.70	0.84
7	27	455	-135	190	0045	1815	8.30	8.16	8.21	16.88	0.60
7	28	487	-632	53	0645	2245	8.24	8.04	8.12	14.48	9.85
7	29	763	-319	114	2030	1915	8.31	8.10	8.21	11.61	9.85
7	30	672	-868	73	2130	1930	8.32	8.02	8.20	12.44	6.14
7	31	359	-135	103	0015	2345	8.22	8.11	8.17	9.16	6.14
8	1	224	-269	-9	0545	1900	8.22	8.12	8.17	2.92	3.71
8	2	177	-861	-139	0815	2015	8.31	8.07	8.15	1.83	13.97
8	3	502	-1120	-216	0530	0330	8.58	8.31	8.45	2.76	20.86
8	4	286	-765	-116	2145	1445	8.69	8.52	8.59	3.06	13.04
8	5	96	-581	-233	0130	1430	8.80	8.65	8.70	0.36	20.03
8	6	246	-642	-27	2300	1430	8.89	8.77	8.81	4.04	6.14
8	7	246	-397	-18	0015	2130	8.96	8.84	8.88	5.39	7.14
8	8	447	-398	101	1830	1415	9.00	8.89	8.92	10.53	2.08
8	9	549	-553	269	0930	1800	9.03	8.96	8.98	25.46	2.81
8	10	502	-355	202	0300	1545	9.10	8.99	9.03	19.26	1.85
8	11	506	0	271	0045	1345	9.19	9.05	9.08	22.95	0.00

Table 7a.--Daily discharge data for Bayou Lacassine near Lake Arthur, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
8	12	521	-778	115	2200	1400	9.32	9.10	9.19	15.80	6.12
8	13	1260	417	845	1430	0030	9.39	9.28	9.34	72.69	0.00
8	14	1470	470	885	0945	1445	9.38	9.31	9.34	76.01	0.00
8	15	1260	369	865	0645	2300	9.39	9.36	9.36	74.08	0.00
6	16	850	-483	329	2200	1815	9.54	9.36	9.42	32.59	3.83
8	17	690	-1130	21	0030	1315	9.60	9.44	9.50	13.99	12.53
8	18	878	-1260	-483	2345	0845	9.81	9.58	9.72	5.98	47.08
8	19	1140	432	705	0400	1045	9.72	9.53	9.60	60.39	0.00
8	20	901	-212	570	0915	2000	9.52	9.38	9.43	49.17	0.42
8	21	789	364	596	0030	1000	9.38	9.19	9.29	50.91	0.00
8	22	821	0	515	0430	1745	9.23	9.10	9.14	43.97	0.00
8	23	710	0	399	0100	2130	9.10	8.98	9.02	33.97	0.00
8	24	696	-99	290	0615	1930	8.99	8.88	8.93	25.45	0.00
8	25	789	-244	348	0030	1945	8.88	8.76	8.81	30.59	0.89
8	26	630	-773	208	0115	2315	8.76	8.63	8.68	21.95	4.76
8	27	620	-915	-82	0345	1800	8.74	8.43	8.64	10.61	17.42
8	28	384	-386	12	2315	0400	8.79	8.66	8.69	6.68	5.52
8	29	479	-190	155	0215	1530	8.68	8.56	8.61	14.11	0.93
8	30	1010	-1030	246	2045	2200	8.56	8.33	8.46	23.99	3.28
8	31	372	-234	67	0230	0045	8.48	8.37	8.42	7.21	1.53
9	1	0	-92	88	2315	1330	8.44	8.35	8.38	7.60	0.24
9	2	367	-368	-17	2300	1630	8.39	8.29	8.35	4.81	6.16
9	3	502	-512	8	0215	1900	8.45	8.28	8.36	8.10	7.54
9[a]	4	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
9	15	636	-590	22	2230	1245	8.86	8.77	8.81	11.32	9.44
9	16	634	-639	80	0015	1500	8.86	8.77	8.80	11.91	5.30
9	17	440	-545	22	0200	1715	8.91	7.79	8.80	7.81	6.08
9	18	493	-544	58	1730	0900	8.94	8.84	8.88	8.76	3.95
9	19	1260	-149	350	2330	0945	9.40	8.90	9.04	31.10	0.86
9	20	3460	1060	2050	2015	0045	9.76	7.50	9.58	177.59	0.00
9	21	4060	2240	3200	0645	1830	9.76	9.69	9.71	276.00	0.00
9	22	3690	1820	2880	1615	1245	9.77	9.72	9.74	248.55	0.00
9	23	3620	1750	2670	0745	1845	9.74	9.65	9.70	229.46	0.00
9	24	2920	1290	2060	0745	2115	9.65	9.54	9.60	177.32	0.00
9	25	2200	1010	1480	0015	2100	9.85	9.45	9.51	127.51	0.00
9	26	1430	421	786	0145	2330	9.50	9.39	9.43	67.12	0.00
9	27	685	0	309	0030	1145	9.39	9.34	9.37	26.11	0.00
9	28	419	-105	154	0015	1515	9.35	9.30	9.32	13.48	0.48
9	29	520	-104	171	0030	1345	9.29	9.21	9.26	14.68	0.39
9	30	614	-206	96	2300	1630	9.21	9.14	9.18	11.02	2.75

[a] Data are missing from 9-4 to 9-14.

Table 7b.--Daily discharge for Bayou Lacassine near Lake Arthur, La., for the 1984 water year

[M, month of the year; D, day of the month; MXQ, maximum instantaneous daily discharge; MIQ, minimum instantaneous daily discharge; MNQ, mean daily discharge; TMAX, time of maximum instantaneous daily discharge; TMIN, time of minimum instantaneous daily discharge; MXS, maximum instantaneous daily stage; MIS, minimum instantaneous daily stage; MNS, mean daily stage; VDS, volume of flow downstream; VUS, volume of flow upstream; 99999, missing data]

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours		Feet			Million gallons per day	
10	1	561	-102	233	0030	1700	9.14	9.05	9.09	20.05	0.34
10	2	403	-252	63	0015	1930	9.05	9.00	9.02	9.58	4.32
10	3	502	0	114	0345	0745	9.04	8.97	9.00	14.53	0.00
10	4	400	-50	160	0245	1330	9.01	8.95	8.97	13.44	0.04
10	5	689	0	271	1345	0215	8.97	8.80	8.89	22.83	0.00
10	6	636	-544	15	2030	1230	8.90	8.81	8.85	9.97	8.66
10	7	634	-441	5	2300	0830	8.89	8.80	8.83	8.74	8.17
10	8	438	-49	148	0215	1045	8.81	8.74	8.78	12.54	0.08
10	9	385	-485	8	2100	0930	8.79	8.69	8.72	7.86	7.36
10	10	144	-528	-56	0015	1315	8.70	8.63	8.66	2.04	6.86
10	11	384	-384	-65	2130	0345	8.73	8.64	8.68	3.21	8.47
10	12	984	-534	392	1930	1100	8.76	8.42	8.60	36.58	3.00
10	13	648	-278	125	0645	1653	8.54	8.38	8.44	14.38	3.85
10	14	376	-522	-128	2345	1130	8.61	8.46	8.54	3.46	14.22
10	15	521	-530	-35	2215	1030	8.70	8.53	8.58	6.24	9.17
10	16	429	-478	51	2245	1130	8.69	8.57	8.62	8.58	4.36
10	17	617	-239	112	0145	0900	8.67	8.60	8.64	11.70	20.40
10	18	571	-239	106	0200	1230	8.66	8.61	8.62	9.64	0.95
10	19	286	-484	-91	0145	1200	8.80	8.63	8.70	2.56	10.22
10	20	337	-537	-55	0930	1300	8.81	8.70	8.76	3.47	8.30
10	21	485	-341	135	2230	1515	8.80	8.73	8.76	15.34	3.68
10	22	912	-243	179	0330	0200	8.78	8.60	8.66	16.56	1.42
10	23	380	-383	67	1200	0745	8.66	8.53	8.58	9.97	4.42
10	24	142	-478	-114	1845	1200	8.64	8.56	8.59	0.40	9.92
10	25	368	-422	-13	2245	1530	8.59	8.37	8.51	5.38	6.31
10	26	367	-593	-115	0030	1545	8.39	8.27	8.33	3.93	13.90
10	27	93	-512	-116	1845	1400	8.46	8.35	8.40	1.00	10.68
10	28	416	-326	-42	2400	1045	8.49	8.39	8.43	5.17	8.56
10	29	370	-510	-20	0015	1530	8.42	8.32	8.37	4.99	6.82
10	30	276	-324	-29	2000	1345	8.42	8.34	8.37	4.12	6.47
10	31	366	-512	-73	0030	1415	8.47	8.33	8.40	5.16	11.43
11	1	324	-420	-53	2115	1100	8.51	8.41	8.45	6.07	10.55
11	2	233	-514	-69	2200	0915	8.51	8.40	8.46	2.76	8.67
11	3	279	-233	10	0215	0700	8.47	8.38	8.42	3.53	2.64
11	4	2680	-504	23	0815	1600	8.49	8.29	8.37	8.24	6.23
11	5	230	-3640	-179	0830	1045	8.42	8.30	8.35	0.76	15.97
11	6	6420	-979	197	1215	1030	8.68	8.36	8.49	28.71	12.07
11	7	375	-278	27	0015	1345	8.52	8.36	8.42	6.04	3.97
11	8	140	-463	-75	1215	0600	8.49	8.38	8.43	1.84	8.25
11	9	1170	-280	83	0900	1915	8.50	8.11	8.42	12.92	5.71
11	10	393	-629	-78	1745	0915	8.24	8.00	8.11	2.71	9.27
11	11	306	-355	46	1030	2300	8.14	7.98	8.06	5.56	1.94
11	12	491	-594	32	0315	1915	8.36	8.13	8.24	10.81	8.04
11	13	406	-587	3	1930	1345	8.35	8.20	8.26	6.40	6.08
11	14	690	-1680	-297	1415	2200	8.37	8.20	8.27	6.45	32.68
11	15	1660	-1400	534	0815	0045	8.29	7.89	8.06	51.62	5.22
11	16	348	-305	15	1545	0815	8.14	7.96	8.02	5.94	4.71
11	17	222	-774	-299	0245	1800	8.34	8.13	8.23	0.98	26.59
11	18	1560	0	975	1900	0015	8.42	8.23	8.32	84.23	0.00
11	19	1470	0	745	0800	2345	8.80	8.28	8.51	63.54	0.00
11	20	276	-508	-30	1915	0545	8.45	8.30	8.35	4.72	7.22
11	21	1120	-597	-39	2245	0730	8.55	8.36	8.43	10.99	13.89
11	22	1780	0	594	0145	0530	8.78	8.50	8.61	50.57	0.00
11	23	1270	-95	447	0330	2330	8.89	8.61	8.72	38.30	0.32

Table 7b.--Daily discharge for Bayou Lacassine near Lake Arthur, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
11	24	236	-376	-49	0330	2215	8.60	8.49	8.52	2.46	6.74
11	25	481	-523	35	1700	0915	8.72	8.53	8.63	10.25	7.09
11	26	241	-489	-32	0015	2400	8.82	8.69	8.74	3.17	6.13
11	27	242	-786	-201	1945	0415	8.88	8.64	8.75	2.50	19.44
11	28	1290	-1020	399	1730	0430	8.78	8.65	8.70	42.01	7.29
11	29	1060	241	570	0445	1415	8.76	8.64	8.70	48.46	0.00
11	30	1570	-536	522	2000	0630	8.88	8.74	8.80	47.40	2.37
12	1	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
12	2	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
12	3	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
12	4	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
12	5	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
12	6	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
12	7	337	-579	-78	2130	1015	8.76	8.62	8.69	3.97	10.73
12	8	242	-291	31	2100	2315	8.76	8.70	8.72	6.69	4.07
12	9	485	-439	-1	2000	1315	8.81	8.72	8.76	8.11	8.16
12	10	49	-1620	-476	0315	1900	9.10	8.77	8.89	0.04	41.07
12	11	1760	-505	1100	2330	0015	9.08	8.77	8.87	96.60	11.48
12	12	1550	534	1180	0315	2015	8.79	8.69	8.73	101.48	0.00
12	13	1760	-804	513	2045	1245	9.06	8.76	8.88	52.69	8.49
12	14	1270	-97	469	0045	2330	8.80	8.69	8.75	40.33	0.60
12	15	534	-540	-12	0915	2345	8.84	8.71	8.78	7.37	10.22
12	16	1260	-1090	-121	1615	1115	8.96	8.71	8.83	16.63	26.70
12	17	0	-639	-286	0215	1545	8.89	8.80	8.83	0.00	24.28
12[b]	18	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
2	3	1240	93	572	1330	1930	8.57	8.35	8.44	49.12	0.00
2	4	601	-183	257	0100	2015	8.42	8.23	8.34	22.39	0.56
2	5	831	-91	228	1315	0415	8.28	7.86	8.12	20.08	0.57
2	6	426	-705	-175	0015	1215	8.09	7.79	7.98	2.96	17.86
2	7	90	-313	-71	2215	1415	8.19	8.09	8.13	0.78	6.71
2	8	225	-453	-72	1715	1300	8.28	8.14	8.20	2.60	8.84
2	9	871	-1380	70	1945	1230	8.47	8.27	8.34	14.83	8.45
2	10	1670	607	1170	1645	0145	8.69	8.45	8.57	101.18	0.00
2	11	2230	687	1500	1515	1815	8.92	8.69	8.76	129.00	0.00
2	12	2940	0	1580	2330	0630	9.13	8.92	9.04	136.80	0.00
2	13	3070	1380	2470	1230	1500	9.20	9.09	9.14	213.07	0.00
2	14	2770	1490	2030	0730	1100	9.25	9.19	9.20	174.71	0.00
2	15	1970	573	1170	0315	1900	9.34	9.25	9.27	100.12	0.00
2	16	1550	559	1040	0545	2045	9.34	9.09	9.17	88.98	0.00
2	17	1010	-254	366	0130	2230	9.12	9.03	9.06	31.71	0.81
2	18	564	-359	65	1730	0400	9.22	9.12	9.17	12.04	6.38
2	19	1350	0	435	0645	1945	9.13	8.90	8.97	37.08	0.00
2	20	670	-48	330	2200	1645	8.90	8.63	8.77	28.12	0.04
2	21	619	-339	51	0015	2200	8.76	8.62	8.69	7.45	3.34
2	22	338	-243	80	1700	2045	8.77	8.72	8.74	7.70	1.11
2	23	194	-243	39	2000	1715	8.76	8.70	8.73	4.36	1.16
2	24	478	-47	133	0930	2030	8.75	8.53	8.62	11.41	0.36
2	25	95	-782	-267	0145	2330	8.81	8.56	8.66	0.00	23.90
2	26	1090	-1770	-248	2215	1715	9.10	8.77	8.88	16.08	36.68
2	27	2110	233	1430	1100	2345	8.86	8.25	8.51	122.87	0.00
2	28	1570	-45	1080	0915	2400	8.43	8.03	8.24	81.87	0.08
2	29	579	-455	5	0500	1900	8.29	8.14	8.21	10.80	10.24
3	1	464	-466	-40	2115	1500	8.47	8.29	8.38	6.52	9.90
3	2	462	-233	69	2215	1645	8.46	8.37	8.40	7.09	1.28
3	3	325	-373	120	1315	2345	8.47	8.38	8.41	10.66	0.86
3	4	186	-906	-322	0545	1415	8.76	8.45	8.58	0.56	28.27
3	5	1470	-631	604	1330	0015	8.76	8.10	8.44	57.44	5.22

[b] Data are missing from 12-18 to 2-2.

Table 7b.--Daily discharge for Bayou Lacassine near Lake Arthur, La., for the 1984 water year--Continued

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours		Feet			Million gallons per day	
3	6	568	-495	-50	0715	2400	8.22	7.95	8.09	6.59	11.00
3	7	319	-451	-78	1545	0015	8.36	8.20	8.30	3.64	10.00
3	8	365	-322	-15	1730	1045	8.36	8.31	8.34	3.60	4.84
3	9	361	-637	-127	0515	1345	8.39	8.18	8.28	5.08	15.99
3	10	366	-322	60	0430	1245	8.39	8.20	8.33	7.92	2.76
3	11	322	-372	-63	2130	2400	8.45	8.22	8.31	3.00	8.47
3	12	880	-1040	-42	1800	0615	8.60	8.42	8.48	16.34	19.77
3	13	507	-467	150	0500	0215	8.48	8.32	8.37	14.55	1.99
3	14	505	-370	47	0730	0415	8.49	8.34	8.41	8.38	4.50
3	15	469	-662	-65	1945	1445	8.59	8.51	8.53	5.68	11.12
3	16	605	-235	125	1215	0115	8.54	8.43	8.47	12.08	1.41
3	17	871	-186	205	0730	1315	8.49	8.35	8.41	18.03	0.76
3	18	186	-911	-196	0515	2115	8.69	8.42	8.52	1.92	18.85
3	19	1380	-623	386	2345	0015	8.67	8.35	8.53	37.22	3.44
3	20	1380	-730	467	0015	2245	8.35	8.04	8.21	48.33	9.08
3	21	454	-366	24	0630	0100	8.41	8.26	8.32	5.84	6.12
3	22	230	-879	-168	0245	1045	8.60	8.30	8.44	1.88	16.31
3	23	328	-666	-113	0315	1545	8.68	8.50	8.56	4.99	14.75
3	24	1110	-46	478	1000	1945	8.61	8.28	8.41	41.28	0.04
3	25	364	-319	11	0015	0930	8.31	8.21	8.29	5.84	5.08
3	26	502	-515	-36	0930	2045	8.51	8.30	8.41	5.03	8.07
3	27	647	-468	95	2115	1300	8.51	8.40	8.46	12.76	4.74
3	28	1330	-559	479	0900	2200	8.41	7.60	7.99	47.01	6.07
3	29	709	-698	-151	0245	2000	8.01	7.70	7.87	5.56	18.35
3	30	86	-829	-241	0400	1115	8.11	7.90	8.00	0.46	20.80
3	31	443	-360	-93	2315	1730	8.21	8.08	8.12	3.76	11.16
4	1	442	-638	-58	0145	2345	8.31	8.00	8.14	5.85	11.23
4	2	647	-1380	-338	2145	1545	8.61	8.30	8.45	8.00	36.58
4	3	911	-45	393	0145	1745	8.31	8.00	8.16	33.42	0.04
4	4	575	-430	498	2230	1230	8.01	7.60	7.83	16.93	1.19
4	5	287	-709	-213	1030	1730	7.81	7.51	7.69	2.86	21.21
4	6	174	-344	-85	2100	1245	8.01	7.80	7.87	1.26	8.33
4	7	365	-1690	-502	2215	2000	8.51	7.90	8.17	1.70	44.89
4	8	1080	0	577	0545	0015	8.39	8.00	8.19	49.60	0.00
4	9	567	-487	271	0315	0515	8.10	7.98	8.00	24.19	1.15
4	10	580	-182	110	1830	2245	8.28	8.08	8.18	6.46	0.40
4	11	891	-787	153	0400	0915	8.56	8.13	8.39	20.27	7.37
4	12	868	186	523	1830	0830	8.51	8.27	8.38	44.95	0.00
4	13	716	-91	373	2315	0915	8.26	8.16	8.20	32.08	0.00
4	14	749	-309	277	0630	1215	8.21	7.87	8.02	24.44	1.10
4	15	547	-547	69	1015	2145	7.95	7.56	7.75	10.43	4.85
4	16	284	-833	-108	1715	2130	7.85	7.52	7.68	3.07	12.53
4	17	84	-673	-171	0600	0015	7.88	7.71	7.78	0.34	14.46
4	18	89	-356	-138	2230	1800	8.16	7.86	8.00	0.35	12.11
4	19	448	-989	-32	1515	0700	8.25	8.11	8.17	8.69	11.31
4	20	734	-1070	-270	1045	1245	8.59	8.22	8.38	3.78	27.36
4	21	1230	-948	375	0730	0015	8.59	8.28	8.39	37.60	5.02
4	22	873	-44	374	0800	1415	8.28	7.90	8.03	31.85	0.03
4	23	673	-727	-87	0900	2130	7.96	7.70	7.81	8.39	16.06
4	24	347	-341	-9	1830	0015	7.99	7.84	7.91	5.03	5.67
4	25	0	-732	-262	1400	2315	8.34	7.97	8.12	0.00	22.28
4	26	898	-1020	-185	0530	1615	8.50	8.15	8.32	9.86	25.25
4	27	1210	-455	292	0515	1100	8.40	8.15	8.24	26.46	1.64
4	28	492	-456	126	0330	2315	8.32	8.04	8.14	14.52	4.16
4	29	1100	-1550	-126	1215	0300	8.54	8.30	8.41	16.05	26.77
4	30	1080	-609	163	0345	2015	8.33	7.89	8.04	19.20	5.27
5	1	90	-770	-242	2315	2100	8.27	7.89	8.03	0.39	21.00
5	2	357	-731	34	0200	2230	8.32	8.09	8.17	3.61	13.78
5	3	491	-732	109	0730	0015	8.33	7.88	8.09	13.40	3.82

Table 7b.--Daily discharge for Bayou Lacassine near Lake Arthur, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
5	4	342	-602	-130	0030	0715	7.99	7.80	7.90	3.17	14.58
5	5	440	-580	-125	1600	1145	8.19	7.98	8.09	3.37	14.04
5	6	220	-1000	-227	0845	1315	8.39	8.10	8.25	2.09	21.40
5	7	848	-729	20	2245	1200	8.36	8.15	8.28	12.84	11.10
5	8	1020	-169	344	1000	1915	8.20	7.68	7.87	29.63	0.34
5	9	342	-86	86	1430	2030	7.94	7.82	7.87	7.45	0.31
5	10	346	-299	37	2400	0615	7.97	7.83	7.89	5.95	2.70
5	11	218	-348	-16	2345	1245	8.05	7.95	7.99	1.69	3.08
5	12	300	-302	-29	0700	1900	8.01	7.85	7.90	3.82	6.33
5	13	298	-472	-76	0145	1900	7.91	7.79	7.84	2.71	9.03
5	14	336	-338	-53	2345	1545	7.85	7.71	7.79	4.00	8.39
5	15	292	-671	-181	2230	1515	7.81	7.66	7.73	1.94	17.47
5	16	85	-549	-115	0145	1115	7.83	7.72	7.76	0.70	10.37
5	17	210	-424	-85	0200	1130	7.89	7.73	7.80	2.21	9.34
5	18	169	-562	-74	0015	1230	8.01	7.79	7.89	1.90	8.29
5	19	1100	-1300	-187	2400	1400	8.35	7.90	8.08	7.09	22.56
5	20	4090	184	2080	2345	0045	9.46	8.29	8.86	179.86	0.00
5	21	5220	2740	4050	2045	0330	9.98	9.47	9.75	350.63	0.00
5	22	5380	2810	4300	0145	2145	10.27	9.97	10.11	370.58	0.00
5	23	5300	2770	4145	1800	1745	10.26	10.10	10.19	350.86	0.00
5	24	4770	2440	3550	0015	2230	10.11	10.01	10.05	305.90	0.00
5	25	3860	1530	2560	0130	1930	10.02	9.88	9.98	220.17	0.00
5	26	2570	724	1660	0815	1915	9.94	9.80	9.87	142.50	0.00
5	27	1830	546	1020	0015	2345	9.80	9.63	9.73	87.17	0.00
5	28	1240	267	754	0900	2400	9.69	9.50	9.57	64.37	0.00
5	29	1050	0	567	0645	2400	9.50	9.22	9.33	48.44	0.00
5	30	516	-410	29	0245	2330	9.29	9.15	9.19	7.80	5.45
5	31	-51	-670	-259	0715	1300	9.25	9.15	9.19	0.00	22.00
6	1	102	-412	-143	0600	1700	9.23	9.16	9.19	1.69	13.94
6	2	102	-358	-110	0915	1800	9.21	9.15	9.17	0.78	10.08
6	3	406	-407	-19	0700	2300	9.18	9.05	9.11	6.53	8.26
6	4	353	-559	-85	1045	2000	9.12	8.94	9.08	5.54	12.80
6	5	101	-716	-204	0945	2145	9.16	9.04	9.10	1.11	18.34
6	6	203	-982	-373	0845	1615	9.28	9.11	9.18	0.70	32.40
6	7	512	-256	118	0715	1230	9.22	9.14	9.17	11.63	1.72
6	8	561	0	224	0630	1515	9.19	9.12	9.15	19.06	0.00
6	9	559	-408	177	0600	2300	9.15	9.09	9.11	17.75	2.93
6	10	706	-355	116	1100	1800	9.13	9.00	9.08	12.95	2.99
6	11	867	204	430	2215	1515	9.20	9.08	9.11	36.95	0.00
6	12	865	0	426	0015	1830	9.15	9.07	9.10	36.22	0.00
6	13	811	-253	265	0145	1700	9.11	9.04	9.06	25.30	1.55
6	14	655	-402	108	0315	1730	9.07	8.99	9.02	15.49	6.22
6	15	550	-201	124	0730	1815	9.03	8.97	8.99	13.43	2.85
6	16	804	0	310	1545	1630	9.10	8.98	9.03	26.53	0.00
6	17	865	356	646	1400	1200	9.19	9.09	9.11	55.59	0.00
6	18	1020	102	722	1045	1845	9.12	9.08	9.10	61.94	0.00
6	19	1220	557	944	0915	2400	9.16	9.06	9.10	81.06	0.00
6	20	1110	352	643	0915	2030	9.08	9.00	9.03	55.18	0.00
6	21	799	50	407	0300	1845	9.01	8.90	8.93	34.57	0.00
6	22	494	-98	251	0015	1600	8.90	8.75	8.83	21.38	0.00
6	23	677	-97	261	1115	1545	8.81	8.70	8.75	22.20	0.12
6	24	759	-1100	159	1030	2100	8.70	8.54	8.63	23.23	9.81
6	25	616	-332	33	0645	1330	8.65	8.55	8.58	7.84	5.00
6	26	188	-522	-166	0045	1230	8.59	8.54	8.55	0.72	14.85
6	27	929	-468	156	1445	1630	8.60	8.43	8.51	14.97	1.56
6	28	651	-94	233	1345	1945	8.59	8.44	8.49	20.20	0.44
6	29	757	0	287	1830	1300	8.64	8.50	8.54	24.41	0.00
6	30	654	-956	85	1230	1630	8.70	8.48	8.57	19.74	12.82
7	1	532	-96	273	2230	0730	8.83	8.61	8.69	23.37	0.16

Table 7b.--Daily discharge for Bayou Lacassine near Lake Arthur, La., for the 1984 water year--Continued

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours			Feet		Million gallons per day	
7	2	532	-194	200	0630	1945	8.77	8.70	8.72	21.41	0.61
7	3	674	-48	216	2345	1115	8.74	8.68	8.70	18.46	0.04
7	4	622	48	303	0715	1645	8.72	8.60	8.66	25.77	0.00
7	5	803	-239	274	1800	1515	8.68	8.55	8.61	23.43	0.29
7	6	474	-475	131	0045	1530	8.61	8.52	8.57	13.34	2.32
7	7	470	-532	88	1130	2000	8.62	8.50	8.55	12.02	4.63
7	8	471	-761	29	0130	1730	8.61	8.46	8.54	8.81	6.39
7	9	377	-476	48	1600	1245	8.61	8.50	8.56	8.09	4.13
7	10	474	-477	143	2315	1915	8.66	8.53	8.57	16.10	4.02
7	11	662	-236	277	0345	1715	8.60	7.58	8.55	24.27	0.70
7	12	747	-661	135	0845	1545	8.56	8.46	8.51	15.97	4.70
7	13	466	-808	18	1045	1815	8.61	8.47	8.53	10.41	9.00
7	14	619	-476	110	1845	0030	8.68	8.55	8.59	13.91	4.42
7	15	522	0	258	0345	2115	8.62	8.50	8.58	21.91	0.00
7	16	615	-377	251	0230	2130	8.60	8.36	8.52	23.16	1.83
7	17	609	-328	212	0215	2045	8.52	8.39	8.47	21.45	3.40
7	18	1060	-661	223	1745	1915	8.56	8.36	8.45	22.33	3.08
7	19	510	-615	90	0845	2345	8.57	8.42	8.47	12.95	5.94
7	20	653	-235	146	0115	0230	8.54	8.47	8.48	13.50	0.97
7	21	606	-187	138	0545	1715	8.59	8.43	8.47	13.26	1.40
7	22	373	-94	64	0015	1500	8.51	8.36	8.44	6.29	1.04
7	23	781	-1130	-31	1630	1445	8.56	8.35	8.41	11.80	14.57
7	24	371	-512	-63	2400	1130	8.49	8.40	8.43	3.86	9.06
7	25	601	-796	-13	2400	1530	8.55	8.38	8.42	9.29	10.27
7	26	917	-374	92	1615	1430	8.48	8.30	8.41	14.51	6.72
7	27	600	-514	111	0300	1545	8.52	8.39	8.41	12.26	3.02
7	28	929	-1100	160	2330	1830	8.64	8.38	8.43	17.92	3.97
7	29	787	-934	161	0015	2215	8.51	8.35	8.42	18.53	5.35
7	30	231	-606	-131	0445	1900	8.48	8.37	8.42	1.92	12.97
7	31	325	-513	-43	0015	1530	8.50	8.41	8.45	3.33	6.99
8	1	326	-520	24	0645	2045	8.57	8.45	8.49	5.06	11.08
8	2	468	-515	-16	0515	1200	8.60	8.44	8.49	7.28	8.40
8	3	1590	-669	131	2330	1615	8.75	8.47	8.57	21.97	10.38
8	4	1780	776	1340	1730	0045	8.93	8.75	8.84	115.33	0.00
8	5	1890	252	1150	0530	1645	9.10	8.93	8.98	99.19	0.00
8	6	1450	353	873	0515	1500	9.08	8.99	9.02	74.62	0.00
8	7	1200	502	774	0500	0015	9.06	8.92	8.98	66.41	0.00
8	8	698	50	443	0400	1800	9.05	8.92	8.95	37.68	0.00
8	9	790	-348	341	1400	1815	8.95	8.87	8.92	30.12	1.22
8	10	494	99	295	0330	1600	8.92	8.87	8.89	25.25	0.00
8	11	830	-690	371	2115	1730	8.92	8.77	8.83	34.61	2.92
8	12	1130	-99	577	2230	1415	8.95	8.77	8.86	49.68	0.20
8	13	1180	342	791	1800	1500	8.91	8.80	8.84	67.82	0.00
8	14	1420	98	669	1000	1845	8.86	8.78	8.82	57.23	0.00
8	15	827	-245	456	0945	2030	8.82	8.75	8.78	39.88	0.86
8	16	485	191	320	0015	2245	8.76	8.65	8.69	27.14	0.00
8	17	476	0	237	0515	2030	8.65	8.52	8.56	20.03	0.00
8	18	509	-233	178	1115	2115	8.52	8.37	8.43	16.20	1.12
8	19	370	-231	55	0130	1600	8.50	8.34	8.38	8.10	3.40
8	20	461	-744	-40	2300	1600	8.47	8.30	8.39	7.09	10.45
8	21	323	-93	40	2030	1245	8.52	8.37	8.40	5.97	0.80
8	22	594	-371	88	0415	1745	8.43	8.30	8.35	11.35	3.90
8	23	502	-457	3	0015	1430	8.34	8.22	8.28	6.10	5.89
8	24	316	-500	-63	0315	1145	8.32	8.20	8.26	3.96	9.33
8	25	316	-503	-161	0115	2045	8.33	8.17	8.25	1.92	15.69
8	26	317	-366	12	0445	1930	8.36	8.24	8.28	5.88	4.76
8	27	319	-502	9	0315	1715	8.34	8.22	8.27	6.88	6.16
8	28	316	-91	67	1430	2015	8.34	8.18	8.27	6.92	1.20
8	29	181	-257	5	1500	2015	8.29	8.22	8.26	2.52	2.08

Table 7b.--Daily discharge for Bayou Lacassine near Lake Arthur, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
8	30	225	-592	-86	1630	0615	8.34	8.19	8.26	2.56	9.85
8	31	91	-646	-236	0400	2245	8.39	8.24	8.28	0.40	20.36
9	1	863	-1370	-164	2130	2000	8.54	8.27	8.35	5.17	19.01
9	2	593	-322	41	0030	0845	8.41	8.25	8.34	9.69	6.21
9	3	363	-600	-66	2345	1700	8.40	8.24	8.29	5.80	11.41
9	4	224	-501	-93	1715	2000	8.36	8.18	8.28	1.92	9.81
9	5	314	-638	-190	0345	1500	8.30	8.20	8.25	1.44	17.60
9	6	321	-784	-156	2115	1400	8.39	8.25	8.31	2.32	15.65
9	7	321	-462	-62	0245	1300	8.43	8.33	8.38	3.56	8.74
9	8	368	-373	0	0115	1800	8.49	8.02	8.41	5.85	5.79
9	9	461	-186	136	1645	0515	8.50	8.32	8.39	12.29	0.79
9	10	322	-461	38	0145	1415	8.42	8.31	8.36	6.36	3.31
9	11	183	-368	-62	2245	1615	8.40	8.32	8.35	1.52	6.76
9	12	321	-182	44	0145	1245	8.35	8.28	8.30	4.80	1.12
9	13	317	-639	8	0145	2030	8.32	8.20	8.24	5.28	4.63
9	14	494	-921	-94	0600	0445	8.38	8.17	8.25	4.92	12.88
9	15	224	-441	-45	0430	2230	8.25	7.96	8.15	2.06	5.99
9	16	173	-876	-341	0015	1215	8.07	7.93	8.00	0.18	29.22
9	17	43	-841	-298	0430	1300	8.14	7.98	8.05	0.06	25.21
9	18	0	-623	-256	0700	1145	8.16	8.00	8.10	0.00	21.29
9	19	0	-616	-290	2400	1300	8.07	8.00	8.04	0.00	25.95
9	20	44	-717	-264	0015	1430	8.21	8.05	8.12	0.03	22.38
9	21	184	-790	-222	2330	1730	8.44	8.13	8.29	0.64	19.55
9	22	748	-611	16	1500	0845	8.60	8.40	8.50	10.16	8.65
9	23	613	-337	177	0130	1245	8.70	8.51	8.59	17.33	2.39
9	24	668	-338	119	0715	1400	8.74	8.63	8.69	13.58	3.18
9	25	620	0	238	2345	1700	8.68	8.63	8.65	20.19	0.00
9	26	524	-380	110	0215	1845	8.63	8.54	8.59	12.71	3.61
9	27	235	-378	-99	1000	1300	8.56	8.49	8.53	1.27	9.61
9	28	232	-465	-67	0945	1500	8.52	8.31	8.43	3.40	9.07
9	29	363	-592	-87	0045	2130	8.36	8.15	8.27	4.60	12.06
9	30	225	-454	-153	0200	1200	8.28	8.19	8.23	1.60	14.56

Table 8a.--Daily disharge data for Bayou Choupique near Sulphur, La., for the 1983 water year

[M, month of the year; D, day of the month; MXQ, maximum instantaneous daily discharge; MIQ, minimum instantaneous daily discharge; MNQ, mean daily discharge; TMAX, time of maximum instantaneous daily discharge; TMIN, time of minimum instantaneous daily discharge; MXS, maximum instantaneous daily stage; MIS, minimum instantaneous daily stage; MNS, mean daily stage; VDS, volume of flow downstream; VUS, volume of flow upstream; 99999, missing data]

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
6	2	179	-271	34	2000	1130	6.13	5.28	5.74	5.25	2.43
6	3	223	-142	42	2015	1130	6.47	5.82	6.08	4.79	1.26
6	4	214	-209	44	2100	1400	6.15	5.64	5.89	4.80	1.19
6	5	224	-140	32	2030	1515	6.06	5.50	5.75	4.37	1.70
6	6	170	-228	7	1145	1330	5.82	5.43	5.65	3.11	2.48
6	7	228	-181	17	2115	0600	5.86	5.28	5.59	4.47	2.98
6	8	223	-328	10	2330	0500	5.98	4.98	5.59	5.55	4.70
6	9	233	-275	21	2315	0500	5.93	5.09	5.64	4.80	3.09
6	10	251	-283	16	2115	0530	6.19	4.94	5.75	5.59	4.24

Table 8a.--Daily disharge data for Bayou Choupique near Sulphur, La., for the 1983 water year--Continued

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours			Feet		Million gallons per day	
6	11	292	-317	14	0130	0630	6.43	5.21	5.97	6.08	4.84
6	12	277	-312	6	0200	0800	6.52	5.38	6.08	6.11	5.57
6	13	240	-310	1	2400	0800	6.72	5.52	6.21	5.67	5.41
6	14	251	-284	50	0030	1000	6.58	5.78	6.26	7.85	3.62
6	15	232	-397	55	0430	1030	6.23	5.34	5.86	8.38	3.72
6	16	169	-335	19	0315	1115	6.03	5.04	5.63	5.55	3.95
6	17	179	-307	37	2215	1145	5.86	5.15	5.52	5.99	2.92
6	18	231	-231	24	0715	1315	6.16	5.48	5.82	5.16	3.09
6	19	240	-155	20	2100	1545	6.20	5.66	5.92	4.59	2.90
6	20	184	-197	19	2315	0415	6.15	5.60	5.96	4.33	2.73
6	21	231	-299	27	2230	0430	6.18	5.48	5.93	4.94	2.75
6	22	786	-276	319	1430	0615	6.53	5.27	6.10	29.83	2.32
6	23	1110	365	852	1200	0600	6.89	5.84	6.53	73.18	0.00
6	24	902	209	448	0030	1845	6.56	5.97	6.24	38.05	0.00
6	25	422	-195	134	0030	0715	6.38	5.40	6.03	12.01	0.80
6	26	361	161	229	0600	2330	6.60	5.72	6.24	19.29	0.00
6	27	245	-143	83	0100	0830	6.71	5.86	6.35	8.23	1.19
6	28	231	-203	44	0145	0945	6.55	5.83	6.26	6.04	2.46
6	29	202	-236	16	0345	0930	6.50	5.77	6.23	4.58	3.23
6	30	241	-283	95	2345	1030	6.40	5.70	6.06	7.93	2.44
7	01	363	-12	196	0445	1215	6.34	5.75	6.04	16.50	0.01
7	02	225	-152	76	0015	1130	6.30	5.67	5.99	7.20	0.97
7	03	165	-74	30	2400	1515	6.38	5.97	6.17	3.54	1.13
7	04	194	-154	34	2015	0400	6.33	5.79	6.12	4.40	1.57
7	05	206	-199	11	1945	0415	6.12	5.29	5.82	3.81	2.97
7	06	216	-259	-16	0100	0530	5.83	4.90	5.50	3.03	4.31
7	07	204	-301	-27	2330	0430	5.86	4.73	5.47	3.64	5.96
7	08	220	-308	-24	2100	0600	6.06	4.73	5.60	4.50	6.49
7	09	260	-388	-22	0100	0545	6.23	4.98	5.79	4.17	6.02
7	10	279	-395	-24	0130	0645	6.45	5.15	5.96	4.92	6.72
7	11	235	-392	-4	0130	0800	6.23	5.40	5.97	5.13	5.49
7	12	229	-346	-10	0145	0815	6.32	5.15	5.86	4.74	5.51
7	13	236	-304	-10	0200	0900	6.52	5.30	5.97	4.97	5.72
7	14	462	47	255	1915	0845	6.47	5.77	6.15	21.62	0.00
7	15	412	-59	199	0645	1130	6.44	5.76	6.18	16.75	0.08
7	16	233	-147	102	0515	1245	6.40	5.91	6.23	9.18	0.75
7	17	317	-143	50	2045	1445	6.14	5.60	5.98	5.82	1.59
7	18	211	-208	37	2230	0315	6.09	5.24	5.83	4.96	1.90
7	19	201	-396	6	2330	0345	5.96	4.98	5.63	4.16	3.69
7	20	281	-252	10	2215	0430	5.80	4.65	5.36	4.44	3.60
7	21	265	-295	-56	2400	0515	5.57	4.48	5.12	4.14	5.37
7	22	240	-338	12	2300	0430	5.78	4.45	5.35	5.68	4.72
7	23	229	-275	15	0145	0500	5.84	4.73	5.48	5.44	4.16
7	24	288	-334	8	0045	0600	5.71	4.67	5.34	5.15	4.55
7	25	273	-329	9	0100	0630	5.78	4.51	5.32	5.56	4.84
7	26	297	-290	12	0130	0730	5.49	4.60	5.17	5.25	4.26
7	27	269	-264	8	0145	0730	5.46	4.37	5.08	5.05	4.36
7	28	254	-223	-2	0300	0745	5.42	4.40	5.02	4.60	4.66
7	29	280	-291	12	0100	0845	5.80	4.52	5.24	5.70	4.71
7	30	249	-136	18	0230	1030	5.81	5.32	5.59	4.05	2.53
7	31	197	-168	35	1715	2400	5.92	5.37	5.66	4.75	1.91
8	1	219	-182	36	1845	0100	5.71	4.97	5.45	5.40	2.33
8	2	185	-150	25	1615	0015	5.52	4.77	5.25	3.42	1.22
8	3	231	-180	16	1800	0045	6.08	4.94	5.71	5.13	3.69
8	4	232	-314	14	2130	0300	6.14	5.01	5.76	5.39	4.21
8	5	292	-394	1	2245	0330	5.96	4.91	5.63	4.63	4.47
8	6	277	-417	11	2130	0400	5.94	4.72	5.53	6.41	5.52
8	7	282	-368	5	2200	0445	5.97	4.60	5.50	5.26	5.64
8	8	290	-463	8	0145	0600	5.89	4.60	5.47	5.35	6.06

Table 8a.--Daily disharge data for Bayou Choupique near Sulphur, La., for the 1983 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
8	9	275	-461	18	2300	0645	5.88	4.74	5.49	6.61	5.19
8	10	297	-303	50	0330	0745	5.98	4.85	5.53	7.66	3.52
8	11	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	12	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	13	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	14	423	-323	224	0600	2345	5.65	4.57	5.19	19.49	0.97
8	15	211	-267	33	1945	2330	5.46	4.84	5.21	4.36	1.78
8	16	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	17	256	-265	-53	2100	0230	6.89	5.48	6.41	2.94	7.16
8	18	377	-321	-67	2300	0530	7.56	6.24	7.02	4.41	9.92
8	19	357	-26	165	0100	0830	7.13	5.89	6.57	13.94	0.13
8	20	288	-151	53	2330	0630	6.11	5.35	5.83	5.65	1.20
8	21	309	-373	11	2345	0530	5.90	4.98	5.58	4.36	3.44
8	22	306	-359	12	0015	0545	5.86	4.95	5.55	4.80	3.84
8	23	286	-257	25	0215	0615	5.81	4.86	5.48	5.84	3.66
8	24	290	-194	17	2400	0615	5.75	4.96	5.48	4.74	3.23
8	25	300	-262	25	0230	2100	5.72	4.84	5.38	5.84	3.77
8	26	297	-257	21	0130	0730	5.71	4.88	5.30	5.53	3.75
8	27	325	-339	2	0215	0800	6.09	5.05	5.57	5.28	5.04
8	28	164	-152	16	1730	2300	6.32	5.70	6.09	2.99	1.66
8	29	200	-266	19	0515	2245	6.02	5.19	5.71	3.39	1.83
8	30	205	-245	30	0600	2230	5.75	4.52	5.25	4.35	1.99
8	31	155	-235	11	1800	2400	5.54	4.41	5.11	3.25	2.45
9	1	252	-175	41	1845	0015	5.61	4.44	5.21	6.09	2.50
9	2	379	-286	7	2115	0230	5.76	4.58	5.36	5.22	4.60
9	3	282	-468	8	2230	0215	5.92	4.52	5.54	5.82	5.13
9	4	338	-308	11	2300	0400	6.18	4.89	5.76	6.22	5.30
9	5	262	-371	-20	0030	0415	6.49	5.01	5.95	4.26	5.89
9	6	541	-367	116	2330	0545	6.87	5.79	6.37	12.90	2.89
9	7	609	50	283	0315	1645	6.73	6.20	6.44	23.88	0.00
9	8	319	-210	91	0245	0830	6.38	5.62	6.04	9.76	2.11
9	9	430	-24	226	0400	2130	6.38	5.87	6.08	16.88	0.06
9	10	303	-152	97	0345	0930	6.11	5.63	5.88	9.82	1.68
9	11	188	-191	66	1315	2230	6.17	5.30	5.83	6.71	1.30
9	12	288	-420	61	1900	2345	5.94	4.87	5.51	6.53	1.58
9	13	181	-363	33	1545	2400	5.72	4.49	5.20	5.57	2.80
9	14	155	-314	1	2045	0015	5.57	4.69	5.23	3.29	3.04
9	15	214	-317	18	2200	0115	5.77	4.80	5.49	5.63	3.98
9	16	219	-367	10	2100	0200	5.97	4.94	5.60	5.28	4.50
9	17	224	-334	-20	2200	0300	5.93	4.92	5.62	3.17	4.82
9	18	179	-383	8	2245	0330	6.13	5.06	5.74	5.24	4.62
9	19	902	-305	228	2315	0500	6.71	5.25	6.14	22.42	2.60
9	20	1090	340	665	2400	1800	6.73	6.36	6.58	57.00	0.00
9	21	1360	588	1050	0815	2015	6.71	5.40	5.98	89.90	0.00
9	22	778	47	347	0100	1730	6.22	5.10	5.71	29.37	0.00
9	23	368	-71	148	0200	1945	6.19	5.77	5.93	12.68	0.41
9	24	192	-154	71	0145	2100	6.24	5.80	6.01	7.38	1.48
9	25	196	-203	30	1345	2115	6.39	5.90	6.20	4.89	2.49
9	26	234	-190	34	1330	2215	6.49	5.88	6.26	4.83	2.02
9	27	193	-202	27	1445	2315	6.39	5.74	6.17	4.39	2.20
9	28	187	-277	29	1815	2300	6.48	5.61	6.17	4.69	2.50
9	29	197	-192	41	1315	2400	6.48	5.46	6.11	5.02	1.58
9	30	232	-197	41	1900	0115	6.38	5.35	6.00	6.19	2.74

Table 8b.--Daily discharge data for Bayou Choupique near Sulphur, La., for the 1984 water year

[M, month of the year; D, day of the month; MXQ, maximum instantaneous daily discharge; MIQ, minimum instantaneous daily discharge; MNQ, mean daily discharge; TMAX, time of maximum instantaneous daily discharge; TMIN, time of minimum instantaneous daily discharge; MXS, maximum instantaneous daily stage; MIS, minimum instantaneous daily stage; MNS, mean daily stage; VDS, volume of flow downstream; VUS, volume of flow upstream; 99999, missing data]

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours		Feet			Million gallons per day	
10	1	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	2	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
10	3	284	-203	45	2115	1600	6.20	5.59	5.84	4.99	1.22
10	4	225	-341	0	2245	0400	6.38	5.39	6.04	4.84	4.81
10	5	249	-282	33	2300	0545	6.22	5.71	5.98	6.82	4.01
10	6	252	-357	-2	1330	0645	6.15	5.39	5.78	5.89	6.06
10	7	277	-276	8	1330	1815	6.20	5.49	5.87	5.91	5.19
10	8	244	-390	19	1400	2000	6.22	5.38	5.91	6.14	4.51
10	9	288	-407	29	1330	2015	6.16	5.05	5.72	6.50	4.10
10	10	223	-354	16	1445	2100	5.96	4.94	5.62	5.36	4.10
10	11	217	-280	10	1515	2130	6.20	5.30	5.84	4.92	4.10
10	12	251	-263	69	1515	2345	6.29	4.75	5.72	8.60	2.80
10	13	192	-277	19	1900	2400	5.45	4.42	5.03	4.37	2.96
10	14	201	-394	-25	1930	0300	5.86	4.81	5.56	3.14	5.31
10	15	222	-316	-10	2130	0045	6.25	5.49	6.01	2.55	3.22
10	16	296	-294	-25	2300	0315	6.36	5.64	6.15	2.74	4.60
10	17	233	-274	-65	0015	1900	6.46	5.79	6.25	1.03	6.40
10	18	224	-108	24	2345	1800	6.36	5.87	6.13	3.15	1.12
10	19	197	-176	-8	0115	2130	6.54	5.68	6.18	2.77	3.49
10	20	200	-216	-33	1415	2130	6.68	6.25	6.48	3.62	6.44
10	21	349	-186	74	1530	0800	6.62	6.04	6.31	8.88	2.50
10	22	292	-190	83	1115	1915	6.25	4.97	5.60	8.47	1.53
10	23	260	-292	52	1430	1930	5.79	4.64	5.31	6.91	2.55
10	24	229	-280	-8	1430	1930	5.88	4.88	5.53	4.11	4.77
10	25	268	-317	40	1300	2045	5.84	4.31	5.22	6.00	2.60
10	26	310	-324	35	1330	2115	5.42	4.36	5.03	6.32	3.29
10	27	216	-256	18	1500	2230	5.84	4.65	5.37	5.27	3.78
10	28	260	-331	25	1745	2345	5.93	4.75	5.52	5.62	3.57
10	29	205	-293	23	1915	0015	5.79	4.58	5.30	5.12	3.25
10	30	241	-323	10	1930	0100	5.87	4.91	5.53	4.81	3.82
10	31	307	-285	-18	2100	0200	6.16	4.95	5.82	3.37	4.72
11	1	250	-289	15	2300	0400	6.22	5.47	5.93	5.26	3.90
11	2	281	-203	30	1330	0500	6.29	5.77	6.04	6.19	3.53
11	3	250	-268	30	1330	1630	6.29	5.81	6.03	5.88	3.70
11	4	295	-309	34	1230	1715	6.17	5.34	5.88	6.58	3.72
11	5	281	-364	30	1200	1730	6.01	4.76	5.48	7.08	4.63
11	6	250	-318	-15	1130	1915	6.20	5.37	5.88	4.98	6.17
11	7	317	-458	-28	1330	1930	6.21	5.08	5.52	4.23	6.44
11	8	302	-329	-14	1330	1915	6.05	5.05	5.71	3.46	4.57
11	9	218	-188	-24	1430	2300	6.24	5.28	5.82	2.73	4.59
11	10	304	-134	55	1245	1100	5.52	3.91	4.64	6.28	1.61
11	11	155	-217	1	1600	2215	4.84	4.00	4.51	2.04	1.98
11	12	228	-132	-11	1700	0645	5.43	4.74	5.18	2.27	2.80
11	13	219	-253	26	2000	2345	5.69	4.75	5.27	4.55	2.38
11	14	191	-256	7	0915	0015	5.70	5.10	5.47	3.41	2.86
11	15	266	-198	29	2330	0045	5.72	4.06	4.96	6.35	3.73
11	16	274	-442	29	0730	1400	4.80	3.72	4.30	5.44	3.09
11	17	278	-244	-6	0845	1430	5.65	4.63	5.20	3.40	3.73
11	18	318	-185	30	0945	1600	6.10	5.59	5.90	5.85	3.20
11	19	312	-157	37	1030	0630	6.56	5.96	6.19	6.30	3.04
11	20	297	-370	86	0045	1700	6.46	4.67	5.56	11.53	4.36
11	21	296	-312	-2	1215	1730	6.21	5.26	5.86	4.68	5.72
11	22	313	-209	1	1600	0230	6.65	6.03	6.37	6.83	6.58
11	23	309	-315	-20	1800	0530	7.05	5.87	6.52	5.97	7.57

Table 8b.--Daily discharge data for Bayou Choupique near Sulphur, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
11	24	212	-411	25	1645	2100	6.12	4.48	5.37	5.78	3.71
11	25	303	-391	3	1600	2145	6.01	5.15	5.67	5.93	5.67
11	26	204	-341	-122	1930	1015	6.65	5.84	6.28	2.11	12.34
11	27	324	-163	134	0745	0330	6.62	5.05	6.04	12.92	1.50
11	28	265	-358	41	0945	2400	5.55	4.32	4.93	5.79	2.64
11	29	212	-279	-21	0845	0030	5.47	4.79	5.18	2.33	3.79
11	30	184	-303	-24	0930	0100	5.98	5.36	5.76	3.83	5.75
12	1	264	-257	26	1045	1630	5.68	4.70	5.31	5.60	3.46
12	2	290	-152	27	1130	1745	6.23	5.31	5.72	5.14	2.90
12	3	354	-206	89	1415	1615	6.29	5.57	6.05	8.99	1.50
12	4	273	-195	96	1130	1700	6.16	4.88	5.57	10.23	2.18
12	5	301	-192	47	1330	1830	6.12	5.30	5.80	6.88	2.89
12	6	283	-183	59	0915	2130	6.01	4.03	5.01	7.25	2.14
12	7	274	-255	8	1330	2230	5.62	4.56	4.99	3.85	3.08
12	8	264	-246	16	1445	2015	5.79	4.70	5.54	5.02	2.95
12	9	275	-232	45	1615	2115	6.03	5.12	5.66	6.97	3.16
12	10	381	-130	117	2030	0300	6.32	5.75	6.00	11.08	1.08
12	11	448	74	317	1145	0130	6.51	5.15	6.01	26.94	0.00
12	12	308	-157	74	0730	2115	5.38	4.54	4.83	7.32	1.29
12	13	379	-179	112	2330	0045	6.05	5.42	5.89	10.78	1.14
12	14	421	-65	188	0015	1830	5.65	4.67	5.13	15.97	0.26
12	15	274	-245	66	0800	1545	5.59	4.87	5.20	6.75	1.38
12	16	266	-251	60	0815	1615	5.61	4.91	5.26	7.32	2.38
12	17	262	-196	40	0615	1745	5.66	4.55	5.14	6.04	2.53
12	18	233	-330	49	1145	1645	5.70	4.80	5.38	7.20	3.02
12	19	190	-241	22	0015	1615	5.56	4.41	5.07	5.66	3.96
12	20	276	-358	5	1230	1715	5.80	4.40	5.17	5.71	5.43
12	21	503	-108	142	2345	0045	6.23	5.56	5.94	13.70	1.38
12	22	725	-10	374	0300	2030	6.11	4.42	5.30	31.68	0.00
12	23	283	-163	116	1615	2045	5.59	4.41	5.11	10.58	0.89
12	24	220	-131	39	0245	1915	5.14	2.23	3.59	5.31	2.17
12	25	93	-170	-59	1315	2030	4.74	3.12	3.75	0.87	5.77
12	26	42	-241	-55	0630	2200	5.29	4.62	4.88	0.18	4.63
12	27	100	-270	-28	1945	2400	5.85	5.33	5.63	1.27	3.69
12	28	230	-249	32	0700	0015	5.97	4.23	5.29	4.42	1.69
12	29	104	-242	-21	0415	1645	4.19	2.42	3.62	1.53	3.41
12	30	68	-388	-76	1130	1530	4.89	3.10	3.94	0.67	6.99
12	31	74	-281	-54	0815	1515	5.39	4.34	4.98	1.12	5.35
1	1	222	-354	-21	1130	1600	5.52	4.31	5.04	3.07	4.75
1	2	210	-308	7	1315	1800	5.61	4.35	5.10	4.88	4.27
1	3	224	-349	4	1245	1745	5.58	4.39	5.14	4.70	4.37
1	4	221	-357	12	1200	1900	5.62	4.52	5.21	4.70	3.67
1	5	283	-344	37	1300	1900	5.60	4.08	4.97	7.30	4.24
1	6	219	-313	2	1415	1915	5.56	4.66	4.19	4.37	4.14
1	7	227	-270	15	1315	1900	5.54	4.50	5.09	5.38	4.32
1	8	221	-246	19	1630	2045	5.70	4.91	5.37	4.20	2.66
1	9	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
1	10	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
1	11	489	56	288	0015	2215	5.85	4.56	5.08	21.51	0.00
1	12	200	-11	118	0815	2400	5.74	5.30	5.58	9.85	0.03
1	13	251	-130	110	1115	1645	5.80	4.79	5.30	9.77	0.67
1	14	216	-164	56	0700	1430	5.70	4.36	5.02	6.77	1.97
1	15	573	115	336	1315	0015	5.84	5.19	5.60	28.69	0.00
1	16	417	-118	189	0015	1615	5.81	4.78	5.42	16.37	0.45
1	17	264	-181	72	1200	1630	6.06	4.79	5.48	7.91	1.95
1	18	305	-21	118	1115	2000	6.16	4.62	5.44	9.89	0.02
1	19	291	-204	63	1415	1900	5.08	3.85	4.60	7.05	1.80
1	20	179	-151	9	1445	1930	5.34	4.25	4.91	3.33	2.39
1	21	196	-213	-7	1600	1945	5.35	4.26	4.85	3.47	3.98

Table 8b.--Daily discharge data for Bayou Choupique near Sulphur, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
1	22	142	-244	-31	1645	2030	5.88	5.15	5.51	1.47	4.06
1	23	213	-195	34	1545	2245	6.15	5.52	5.92	4.45	1.61
1	24	243	-67	119	0430	2245	5.97	5.25	5.54	10.27	0.31
1	25	397	33	202	0530	1430	5.69	4.91	5.33	16.92	0.00
1	26	293	-150	71	0345	1300	5.87	4.87	5.47	7.42	1.49
1	27	202	-162	78	1000	1445	5.83	4.90	5.46	7.89	1.32
1	28	260	-259	53	0600	1530	5.58	4.39	5.12	7.25	2.83
1	29	219	-258	50	1100	1615	5.48	4.34	5.03	6.27	2.26
1	30	266	-179	60	1200	1830	5.40	4.09	4.83	6.78	1.94
1	31	239	-239	15	1100	1530	5.41	3.93	4.66	4.66	3.42
2	1	275	-357	50	1200	1800	5.40	4.16	4.04	5.90	4.27
2	2	238	-237	2	0945	1745	5.51	4.40	5.08	4.97	4.85
2	3	390	-117	133	1430	2000	5.71	4.54	5.23	11.99	0.70
2	4	270	-188	64	0130	2000	5.33	4.36	4.93	7.76	2.32
2	5	270	-255	56	0230	1945	5.34	3.88	4.59	6.95	2.29
2	6	285	-338	3	0300	2000	5.00	3.41	4.16	6.25	6.12
2	7	258	-257	11	0245	1945	5.15	4.23	4.71	5.45	4.37
2	8	208	-120	15	0245	0800	5.54	4.51	4.98	3.17	1.63
2	9	1210	-141	337	2315	1130	6.66	4.98	5.69	30.70	1.27
2	10	1170	233	640	0130	2400	6.55	5.66	6.03	54.49	0.00
2	11	451	-97	225	2300	1330	6.32	4.86	5.57	19.56	0.37
2	12	1410	406	993	1515	0030	6.76	6.33	6.54	85.65	0.00
2	13	1180	259	732	0030	1830	6.76	5.65	6.19	62.42	0.00
2	14	411	-56	220	0845	1545	6.15	5.19	5.78	18.55	0.12
2	15	291	-128	102	0845	1715	6.41	5.65	6.10	9.07	0.62
2	16	239	-162	99	1045	1815	6.42	5.55	6.08	9.11	0.83
2	17	229	-161	76	1230	1845	6.22	5.42	5.88	7.56	1.31
2	18	228	-133	67	1145	2130	6.61	6.04	6.31	6.65	1.08
2	19	208	-79	62	0145	2030	6.37	5.34	5.76	5.81	0.70
2	20	223	-33	88	2400	0715	5.71	5.03	5.37	7.40	0.09
2	21	433	68	260	0400	2030	5.81	5.03	5.45	21.98	0.00
2	22	298	-56	112	0215	1115	5.86	5.25	5.61	9.57	0.28
2	23	188	-141	68	0345	1245	5.75	4.88	5.38	6.62	0.91
2	24	208	-97	42	0930	1445	5.68	4.79	5.26	5.00	1.33
2	25	185	-203	20	0700	1245	5.89	4.40	5.16	4.18	2.64
2	26	460	-209	122	2330	1330	6.72	5.59	6.09	11.59	1.09
2	27	560	94	351	0145	1500	6.71	3.47	5.38	29.75	0.00
2	28	309	-328	87	2130	1815	3.57	1.54	2.70	10.29	3.04
2	29	219	-373	-12	1045	1515	4.51	2.54	3.08	4.62	6.50
3	1	222	-274	0	0830	1630	4.96	3.93	4.49	4.04	4.06
3	2	208	-214	32	1230	1745	5.15	4.33	4.80	5.80	3.08
3	3	189	-219	31	1145	1745	5.48	4.71	5.03	5.32	2.63
3	4	185	-158	32	1230	0600	6.12	5.28	5.68	4.25	1.65
3	5	193	-46	68	1215	0745	6.11	4.85	5.48	5.88	0.31
3	6	282	-254	17	2400	1900	4.82	4.10	4.42	5.41	3.92
3	7	261	-233	22	0015	0600	5.32	4.05	4.85	5.22	3.51
3	8	218	-293	30	1645	1015	5.41	4.54	5.01	5.42	2.93
3	9	213	-230	11	0430	1015	5.40	4.30	4.87	3.88	3.01
3	10	237	-251	31	0200	1145	5.60	4.51	5.13	6.00	3.40
3	11	152	-267	16	0730	1200	5.74	4.46	5.17	4.77	3.49
3	12	276	-243	70	0715	1400	6.33	5.49	5.92	7.19	1.30
3	13	231	-246	101	0730	1530	6.24	5.00	5.74	9.99	1.54
3	14	233	-281	76	1030	1530	5.92	4.85	5.47	8.49	2.16
3	15	259	-160	91	0815	1700	6.11	5.31	5.80	8.46	0.92
3	16	208	-227	57	2400	1730	6.01	5.26	5.74	6.46	1.69
3	17	234	-136	58	1015	1800	6.00	5.35	5.71	6.34	1.56
3	18	192	-127	35	1245	0615	6.25	5.53	5.94	4.82	1.93
3	19	208	-175	71	1430	0715	6.38	5.74	6.04	7.37	1.47
3	20	207	-73	106	0400	1130	5.72	4.13	4.97	7.99	.29

Table 8b.--Daily discharge data for Bayou Choupique near Sulphur, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
3	21	224	-335	-7	0300	1000	5.60	3.65	4.74	5.11	5.70
3	22	259	-317	16	0500	0930	5.89	4.54	5.34	5.56	4.20
3	23	161	-327	17	0145	1100	6.20	5.17	5.73	4.35	3.09
3	24	232	-99	112	2230	1300	6.11	5.20	5.69	9.81	0.47
3	25	276	-179	112	0730	1330	5.73	4.77	5.32	11.48	2.00
3	26	228	-292	52	0830	1415	6.02	4.94	5.50	6.55	2.26
3	27	194	-101	75	2400	1345	6.25	4.42	5.84	6.79	0.62
3	28	269	0	139	1445	0415	6.21	3.82	5.19	11.57	0.00
3	29	200	-500	14	0015	1700	4.13	2.46	3.30	5.79	4.79
3	30	254	-265	0	1000	1530	4.97	3.97	4.39	4.52	4.43
3	31	183	-164	13	2230	1700	5.23	4.40	4.77	4.01	2.89
4	1	154	-206	15	1345	1800	5.33	4.61	4.96	3.30	2.06
4	2	175	-374	-5	0100	1930	6.49	5.12	6.01	3.00	3.50
4	3	216	-173	66	0230	0845	6.33	5.43	5.81	6.88	1.41
4	4	215	-188	64	2245	0915	5.39	4.13	4.79	6.34	0.92
4	5	200	-230	-6	0145	0845	4.84	3.23	4.07	3.17	3.66
4	6	238	-251	24	0130	0815	5.41	3.81	4.78	5.65	3.69
4	7	215	-324	-3	0015	1000	6.13	4.25	5.26	4.03	4.33
4	8	249	-240	51	0245	1145	6.15	5.38	5.82	6.45	2.16
4	9	209	-271	50	0530	1115	5.82	4.52	5.16	6.87	2.06
4	10	223	-268	44	0545	1245	6.04	4.62	5.38	6.96	3.34
4	11	319	-69	145	0615	1400	6.25	5.51	5.95	12.32	0.19
4	12	301	-47	145	1215	1545	6.32	5.72	6.09	12.36	0.17
4	13	304	-170	101	1145	1630	6.00	5.35	5.77	9.56	1.12
4	14	310	-242	67	1015	1730	5.89	5.08	5.55	7.89	2.25
4	15	313	-192	99	2245	0645	5.35	3.91	4.79	9.37	1.23
4	16	344	-414	16	2400	0500	4.80	3.54	4.22	7.15	5.73
4	17	341	-347	14	0015	1815	4.99	3.28	4.29	7.97	6.78
4	18	324	-298	42	0015	0615	5.77	3.72	4.97	7.88	4.37
4	19	278	-384	72	0230	0715	6.00	4.75	5.51	9.52	3.54
4	20	235	-230	-5	0130	0845	6.61	4.94	5.79	3.37	3.80
4	21	240	-60	81	2200	1030	6.72	5.99	6.39	7.55	0.75
4	22	279	-292	75	0830	1330	6.37	4.92	5.56	9.42	3.15
4	23	259	-388	36	0730	1215	5.43	4.09	4.94	7.21	4.20
4	24	262	-137	72	0615	1400	5.50	4.32	4.97	7.73	1.67
4	25	153	-164	16	0845	0400	5.98	5.05	5.51	2.83	1.64
4	26	201	-139	37	0900	1400	6.56	5.64	6.08	4.36	1.30
4	27	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
4	28	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
4	29	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
4	30	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
5	1	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
5	2	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
5	3	240	-151	64	0115	0845	6.29	5.59	5.96	6.57	1.20
5	4	316	-390	44	0200	0900	5.99	4.55	5.43	7.09	3.38
5	5	312	-344	27	0215	0830	6.26	5.07	5.80	5.27	3.03
5	6	242	-254	4	0600	2100	6.65	5.53	6.12	5.14	4.81
5	7	282	-201	21	0830	2015	6.62	5.77	6.28	5.05	3.16
5	8	357	-359	104	0715	1615	6.48	4.66	5.41	10.83	1.92
5	9	253	-395	16	0730	1230	5.60	4.15	4.90	5.73	4.52
5	10	277	-168	31	2115	1400	5.60	4.64	5.23	5.17	2.57
5	11	291	-133	55	2315	0400	5.77	5.11	5.47	6.27	1.46
5	12	309	-276	75	2200	1715	5.75	5.02	5.39	9.01	2.64
5	13	407	-253	52	2145	0430	5.59	4.72	5.22	7.26	2.78
5	14	330	-279	45	2315	0500	5.52	4.50	5.17	6.74	2.82
5	15	401	-263	60	2230	0545	5.44	4.30	5.04	8.59	3.45
5	16	377	-270	59	0215	0615	5.50	4.20	5.07	8.00	2.98
5	17	276	-439	-7	0245	0645	6.45	4.43	5.42	4.67	5.24
5	18	302	-300	-2	0130	0845	6.47	5.15	5.90	5.51	5.90

Table 8b.--Daily discharge data for Bayou Choupique near Sulphur, La., for the 1984 water year--Continued

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours			Feet		Million gallons per day	
5	19	1280	-140	182	2400	1045	7.44	5.61	6.34	17.69	1.46
5	20	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
5	21	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
5	22	1410	328	964	0100	1945	7.57	6.78	7.22	63.53	0.00
5	23	471	0	293	0030	1830	6.97	6.08	6.46	24.80	0.00
5	24	215	-70	105	0015	1500	6.31	5.65	5.98	9.29	0.56
5	25	206	-48	98	1015	0545	6.48	6.04	6.24	8.13	0.10
5	26	192	-73	82	2230	0600	6.41	5.96	6.22	7.19	0.40
5	27	201	-118	66	2200	0545	6.29	5.78	6.05	6.14	0.75
5	28	194	-151	30	2300	0530	6.16	5.53	5.89	4.11	1.60
5	29	166	-54	39	0100	0545	5.49	4.57	5.16	3.99	0.67
5	30	170	-201	-20	0015	0615	5.70	4.11	5.12	2.34	3.97
5	31	166	-235	-3	2315	0700	6.14	4.77	5.63	2.50	2.78
6	1	155	-255	-5	0330	0730	6.33	5.14	5.89	2.30	2.78
6	2	184	-221	21	0230	0845	6.07	5.14	5.76	3.40	1.62
6	3	185	-295	30	0315	0915	5.93	4.91	5.47	4.87	2.32
6	4	175	-234	30	0300	0945	6.15	4.68	5.52	4.10	2.53
6	5	171	-115	34	0630	1130	6.33	5.43	5.97	3.89	1.13
6	6	177	-70	23	0615	1130	6.72	5.70	6.20	2.79	0.91
6	7	233	-12	109	0745	1345	6.71	6.18	6.46	9.12	0.02
6	8	187	-12	97	2115	1630	6.58	6.27	6.43	8.07	0.02
6	9	211	-37	77	1345	0445	6.60	6.16	6.43	6.55	0.24
6	10	233	-62	53	2115	1700	6.55	6.06	6.34	5.16	0.73
6	11	214	-108	63	0130	0530	6.69	5.90	6.39	6.30	1.10
6	12	226	-119	63	0215	0645	6.50	5.84	6.26	6.36	1.10
6	13	201	-173	44	0100	0645	6.30	5.55	5.96	6.21	1.42
6	14	230	-366	27	0245	0715	6.27	5.16	5.86	5.63	3.30
6	15	235	-311	36	0315	0800	6.20	5.20	5.84	6.35	3.32
6	16	207	-380	11	0130	0845	6.22	5.12	5.82	4.43	3.53
6	17	203	-273	16	0015	0900	6.41	5.40	5.99	3.81	2.49
6	18	213	-229	33	0330	1030	6.38	5.50	6.03	4.74	1.97
6	19	206	-173	34	0645	1100	6.26	5.54	5.98	4.18	1.41
6	20	170	-147	40	0630	1145	6.04	5.36	5.76	4.54	1.18
6	21	208	-125	41	0230	1315	5.93	5.24	5.60	4.53	1.11
6	22	216	-80	39	2045	1500	5.84	5.27	5.59	4.07	0.84
6	23	204	-111	46	2300	0315	5.77	5.01	5.50	4.72	0.89
6	24	226	-186	40	2230	0430	5.60	4.58	5.22	4.39	1.02
6	25	254	-161	30	2145	0315	5.47	4.39	5.10	4.41	1.79
6	26	218	-176	44	2345	0400	5.72	4.52	5.29	5.72	1.99
6	27	234	-293	24	2315	0430	5.81	4.57	5.37	5.55	3.52
6	28	588	-382	175	2345	0515	5.89	4.44	5.40	19.03	3.94
6	29	617	-42	267	0245	0630	5.92	4.61	5.42	22.53	0.06
6	30	346	-236	116	2315	0700	5.68	4.42	5.27	11.65	1.73
7	1	671	-97	373	1430	0815	6.12	4.55	5.55	31.96	0.12
7	2	513	-161	184	0245	0930	5.88	4.65	5.35	14.82	1.24
7	3	328	-325	74	0500	1015	5.81	4.73	5.43	9.22	3.04
7	4	229	-278	49	1915	1000	5.83	4.79	5.39	7.26	3.21
7	5	252	-275	35	1730	1215	5.81	4.99	5.39	6.57	3.69
7	6	229	-257	30	1800	1315	5.79	5.00	5.46	5.74	3.22
7	7	212	-238	15	2215	0145	5.73	4.83	5.44	4.67	3.34
7	8	247	-268	21	1600	0245	5.78	4.64	5.38	5.57	3.68
7	9	207	-327	2	2200	0245	5.81	4.51	5.42	4.53	4.37
7	10	197	-285	15	2230	0400	5.90	4.71	5.51	4.78	3.53
7	11	184	-264	4	2345	0430	5.88	4.77	5.51	3.70	3.30
7	12	178	-252	7	0130	0545	5.99	4.66	5.51	4.01	3.41
7	13	184	-236	4	0115	0700	5.92	4.78	5.52	3.16	2.87
7	14	186	-211	14	0100	0700	5.89	4.73	5.50	3.98	2.87
7	15	208	-222	18	0145	0745	5.94	4.76	5.50	4.27	2.72
7	16	179	-160	14	0145	0830	5.73	4.88	5.45	3.57	2.41

Table 8b.--Daily discharge data for Bayou Choupique near Sulphur, La., for the 1984 water year--Continued

M	D	MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
		Cubic feet per second			Hours		Feet			Million gallons per day	
7	17	194	-160	30	0300	0915	5.66	4.87	5.32	4.18	1.70
7	18	209	-239	31	0245	1030	5.61	4.84	5.28	5.14	2.57
7	19	210	-159	32	0545	0900	5.60	4.86	5.31	4.71	1.94
7	20	180	-68	47	1830	1200	5.71	5.27	5.48	4.24	0.46
7	21	203	-123	34	1915	0100	5.80	5.25	5.61	4.10	1.28
7	22	205	-145	40	2015	0130	5.81	4.89	5.50	4.47	1.07
7	23	234	-226	27	2245	0200	5.71	4.89	5.47	4.39	2.08
7	24	261	-243	17	2230	0400	5.93	4.89	5.60	4.25	2.76
7	25	298	-360	7	2315	0415	6.12	4.84	5.67	4.81	4.28
7	26	339	-422	61	2345	0445	6.10	4.82	5.64	8.93	3.81
7	27	304	-268	51	0015	0530	6.18	4.82	5.67	7.04	2.81
7	28	248	-362	25	0015	0630	6.29	4.91	5.77	5.56	3.42
7	29	324	-308	45	0230	0730	5.94	5.05	5.67	6.19	2.37
7	30	321	-345	-3	0245	0800	6.09	4.72	5.57	4.37	4.66
7	31	246	-366	1	0115	0830	6.24	5.13	5.78	4.86	4.77
8	1	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	2	99999	99999	99999	99999	99999	99999	99999	99999	99999	99999
8	3	190	-183	-16	2000	1600	6.30	5.96	6.12	1.53	2.18
8	4	259	-300	-21	2130	0630	6.68	5.72	6.34	5.81	7.43
8	5	303	-135	38	2315	0830	6.47	5.72	6.21	5.95	2.55
8	6	297	-188	46	2345	0415	6.51	5.64	6.16	6.70	2.77
8	7	304	-253	64	2330	0400	6.30	5.47	5.99	7.83	2.37
8	8	289	-246	35	0015	0415	6.41	5.23	5.97	6.27	3.30
8	9	286	-250	56	2315	0545	6.26	5.31	5.88	7.59	2.90
8	10	299	-256	38	0100	0615	6.09	5.10	5.75	6.10	2.86
8	11	311	-241	20	0045	0645	6.00	4.96	5.63	5.25	3.49
8	12	272	-293	31	0230	0700	6.06	4.99	5.63	6.29	3.70
8	13	282	-271	14	0215	0800	5.94	4.87	5.54	4.99	3.86
8	14	284	-231	33	0115	0845	5.82	5.04	5.51	5.98	3.16
8	15	325	-199	77	0245	0900	5.75	5.09	5.51	8.32	1.90
8	16	277	-196	49	0315	0830	5.68	5.08	5.39	6.22	2.13
8	17	214	-159	47	1715	2130	5.69	4.92	5.32	5.03	1.04
8	18	270	-106	58	1745	2330	5.55	4.64	5.18	5.83	0.86
8	19	212	-64	80	1615	0015	5.54	4.67	5.16	7.12	0.46
8	20	325	-181	84	1800	0130	5.78	4.72	5.37	8.99	1.82
8	21	313	-326	25	2100	0100	5.86	4.78	5.58	7.63	2.44
8	22	309	-278	64	2045	0245	5.81	4.52	5.39	7.95	2.48
8	23	278	-232	41	2245	0400	5.69	4.42	5.27	6.26	2.75
8	24	275	-329	-14	2345	0700	5.77	4.36	5.30	5.27	6.38
8	25	299	-308	-18	2400	0430	5.99	4.52	5.47	5.12	6.60
8	26	314	-363	7	0100	0545	6.01	4.81	5.60	5.36	4.83
8	27	346	-289	26	0215	0630	5.96	4.86	5.51	6.26	4.00
8	28	287	-253	27	0230	0800	5.81	5.02	5.49	5.93	3.77
8	29	204	-241	31	0115	0815	5.77	5.03	5.44	5.35	2.87
8	30	196	-317	39	1615	1830	5.78	4.99	5.41	5.72	2.41
8	31	270	-245	22	1745	2315	5.72	4.94	5.43	5.02	3.18
9	1	307	-132	39	2130	2330	6.14	5.26	5.80	5.16	1.81
9	2	244	-139	27	1915	0430	6.00	4.88	5.66	4.91	2.59
9	3	451	-344	11	1915	0100	5.76	4.59	5.44	4.97	4.01
9	4	204	-309	-43	2115	0115	5.83	4.60	5.44	2.93	6.48
9	5	203	-254	-43	2300	0415	5.72	4.68	5.36	2.62	6.23
9	6	180	-288	-62	2400	0400	6.05	4.82	5.64	1.67	6.75
9	7	146	-294	-123	0015	1700	6.45	5.29	6.00	0.80	11.22
9	8	164	-300	-81	0145	1730	6.53	5.66	6.19	1.45	8.25
9	9	190	-184	-23	0215	1245	6.36	5.80	6.15	2.37	4.26
9	10	205	-199	7	1530	0645	6.29	5.77	6.11	3.58	3.03
9	11	212	-151	31	1445	0745	6.15	5.66	5.94	4.97	2.46
9	12	239	-149	64	1400	0815	6.08	5.36	5.69	7.14	1.77
9	13	235	-177	55	1400	2030	5.82	5.14	5.51	6.59	1.99

Table 8b.--Daily discharge data for Bayou Choupique near Sulphur, La., for the 1984 water year--Continued

		MXQ	MIQ	MNQ	TMAX	TMIN	MXS	MIS	MNS	VDS	VUS
M	D	Cubic feet per second			Hours		Feet			Million gallons per day	
9	14	226	-305	42	1500	2115	5.79	4.91	5.38	5.26	1.69
9	15	227	-127	40	1730	2330	5.76	4.65	5.32	5.00	1.65
9	16	202	-139	35	1430	2215	5.34	4.77	5.01	3.86	0.90
9	17	193	-147	40	1615	2345	5.87	5.27	5.60	4.29	1.02
9	18	231	-133	-32	2100	0715	6.30	5.51	6.04	4.03	3.48
9	19	281	-194	-6	2115	0145	6.37	5.50	6.06	4.74	5.04
9	20	196	-203	-75	2330	1515	6.67	5.61	6.34	1.14	7.30
9	21	240	-391	-132	2315	1015	7.41	6.18	6.91	2.40	13.50
9	22	591	14	308	2215	0715	7.55	6.88	7.27	26.26	0.00
9	23	516	-39	261	0015	1830	7.07	6.72	6.94	22.28	0.18
9	24	375	-153	45	0015	0730	7.11	6.55	6.85	6.21	2.50
9	25	230	-179	33	0300	2000	6.98	6.52	6.72	5.08	2.29
9	26	223	-259	62	1400	2200	6.84	6.10	6.42	6.44	1.29
9	27	220	-115	55	1600	2015	6.50	5.62	6.07	5.29	0.74
9	28	222	-206	20	1630	0145	6.22	5.12	5.75	4.61	2.91
9	29	249	-238	20	1615	2215	5.67	4.39	5.15	4.72	3.05
9	30	201	-281	7	1800	2315	5.48	4.26	5.06	4.06	3.60